

DEPARTMENT OF THE NAVY
FY 1997 BUDGET ESTIMATES



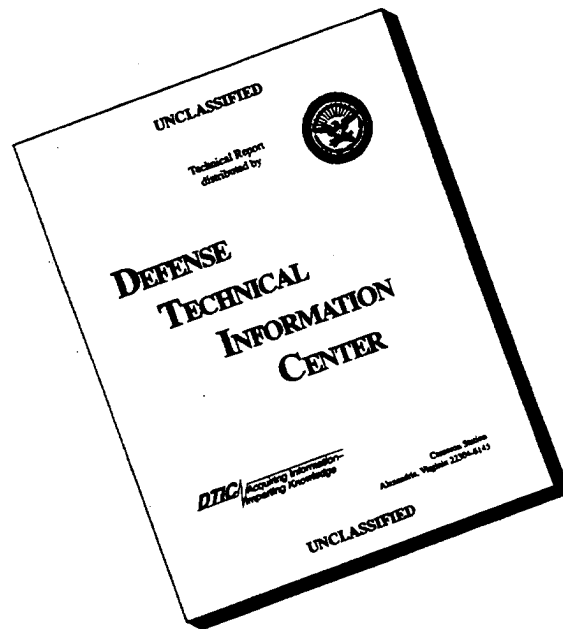
JUSTIFICATION OF ESTIMATES
MARCH 1996

OTHER PROCUREMENT, NAVY
BUDGET ACTIVITY 3

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DEPARTMENT OF THE NAVY
NAVAL AIR SYSTEMS COMMAND
FY 1997 PROCUREMENT PROGRAM

APPROPRIATION: OTHER PROCUREMENT, NAVY
BUDGET ACTIVITY: AVIATION SUPPORT EQUIPMENT

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Department of the Navy

FY 1997 Procurement Program

Exhibit P-1

APPROPRIATION: 1810N Other Procurement, Navy

DATE: 03/06/96

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)		MILLIONS OF DOLLARS		FY 1997 QUANTITY	FY 1997 COST C
			FY 1997 UNIT COST	FY 1997 COST	FY 1995 QUANTITY	FY 1995 COST		
BUDGET ACTIVITY 03: Aviation Support Equipment								
Sonobuoys								
125	4005 AN/SSQ-36 (BT)	A		2.3		.2		.9 U
126	4032 AN/SSQ-62 (DICASS)	A		23.8		4.0		22.7 U
127	4038 AN/SSQ-110			37.0		21.4		36.0 U
128	4042 AN/SSQ-86 (DLC)	A		.9				U
129	4045 Signal, Underwater Sound (SUS)	A						1.1 U
Aircraft Support Equipment								
130	4204 Weapons Range Support Equipment	A		62.1		47.2		27.8 U
131	4208 Expeditionary Airfields	A		2.5		4.8		1.6 U
132	4214 Aircraft Rearming Equipment	A		8.7		7.3		9.3 U
133	4216 Aircraft Launch & Recovery Equipment	A		35.0		15.4		29.0 U
134	4226 Meteorological Equipment	A		20.9		19.6		17.0 U
135	4242 Other Photographic Equipment	A		.8		.7		.7 U
136	4244 Aviation Life Support	A		12.1		17.2		13.8 U
137	4248 Airborne Mine Countermeasures	A		.3		18.9		13.5 U
138	4255 LAMPS MK III Shipboard Equipment	A		6.1		16.2		15.3 U
139	4256 REMSON Photographic Equipment	A		.6		.6		.9 U
140	4259 Stock Surveillance Equipment	A		1.4		1.5		1.6 U
141	4265 Other Aviation Support Equipment	A		15.0		12.2		7.9 U
142	4271 Safety & Survivability Items					9.8		U
TOTAL Aviation Support Equipment				229.3		197.0		199.1

• ITEMS UNDER \$50,000

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00 MAR 96

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

Identification code	17-1810-0-1-051	Budget Plan (amounts for PROCUREMENT actions programmed)			Obligations		
		1995 actual	1996 est.	1997 est.	1995 actual	1996 est.	1997 est.
Program by activities:							
Direct program:							
00.0101	Ships support equipment	774,051	610,985	868,175	812,422	464,491	735,237
00.0201	Communications and electronics equipment	1,171,866	783,792	865,974	1,238,164	978,180	800,676
00.0301	Aviation support equipment	229,324	197,039	199,105	274,061	165,109	199,985
00.0401	Ordnance support equipment	415,903	399,451	464,903	451,365	300,618	425,999
00.0501	Civil engineering support equipment	83,559	46,442	38,057	121,814	47,493	44,084
00.0601	Supply support equipment	102,286	96,277	69,153	90,729	91,648	77,428
00.0701	Personnel and command support equipment	229,676	96,196		205,532	136,699	59,884
00.0801	Spares and repair parts	261,529	191,249	208,828	311,155	144,229	192,190
00.9101	Total direct program	3,268,194	2,421,431	2,714,195	3,505,242	2,328,467	2,535,483
01.0101	Reimbursable program	18,948	36,000	36,000	18,820	53,152	36,000
10.0001	Total	3,287,142	2,457,431	2,750,195	3,524,062	2,381,619	2,571,483
Financing:							
Offsetting collections from:							
11.0001	Federal funds(-)	-1,150	-36,000	-36,000	-1,128	-36,000	-36,000
13.0001	Trust funds(-)	-10			14,664		
14.0001	Non-Federal sources(-)	-17,788			-17,622		
17.0001	Recovery of prior year obligations				-23,412		
21.4002	Unobligated balance available, start of year:				-916,602	-678,768	-754,580
21.4003	For completion of prior year budget plans				-92,825	-22,300	
21.4009	Available to finance new budget plans	-92,825	-22,300				
21.4009	Reprogramming from/to prior year budget plan	-9,465					
24.4002	Unobligated balance available, end of year:				678,768	754,580	933,292
24.4003	For completion of prior year budget plans	22,300			22,300		
24.4003	Available to finance subsequent year budget	5,265			5,265		
25.0001	Unobligated balance expiring						
39.0001	Budget authority	3,193,469	2,399,131	2,714,195	3,193,469	2,399,131	2,714,195
Budget authority:							
40.0001	Appropriation	3,290,499	2,464,637	2,714,195	3,290,499	2,464,637	2,714,195
40.3601	Appropriation rescinded (unob bal)		-8,600			-8,600	
41.0001	Transferred to other accounts (-)	-103,438	-75,269		-103,438	-75,269	
42.0001	Transferred from other accounts	6,408	18,363		6,408	18,363	
43.0001	Appropriation (adjusted)	3,193,469	2,399,131	2,714,195	3,193,469	2,399,131	2,714,195

00 MAR 96

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

Identification code	17-1810-0-1-051	1995 actual	1996 est.	1997 est.
Direct obligations:				
125.101	Advisory and assistance services	51,382	39,242	45,252
125.303	Purchases goods/services (inter/intra) Fed accounts	1,158,456	989,796	913,506
126.001	Purchases from revolving funds	904,352	445,181	657,962
131.001	Supplies and materials	1,391,052	854,248	918,763
	Equipment			
199.001	Total Direct obligations	3,505,242	2,328,467	2,535,483
Reimbursable obligations:				
231.001	Equipment	18,820	53,152	36,000
299.001	Total Reimbursable obligations	18,820	53,152	36,000
999.901	Total obligations	3,524,062	2,381,619	2,571,483

00 MAR 96

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

Identification code	Budget Plan (amounts for PROCUREMENT actions programmed)		Obligations	
	1995 actual	1996 est.	1995 actual	1996 est.
17-1810-0-1-051				
Relation of obligations to outlays:				
71.0001 Obligations incurred	3,519,976	2,345,619	2,345,619	2,535,483
72.1001 Orders on hand, SOY	-14,127	-30,569	-30,569	
72.4001 Obligated balance, start of year	5,620,661	4,671,807	4,671,807	3,655,739
74.1001 Orders on hand, EOY	30,569		30,569	
74.4001 Obligated balance, end of year	-4,671,807	-3,655,739	-3,655,739	-3,189,476
77.0001 Adjustments in expired accounts (net)	-12,067		-12,067	
78.0001 Adjustments in unexpired accounts	-23,412		-23,412	
90.0001 Outlays (net)	4,449,793	3,331,118	3,331,118	3,001,746

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OTHER PROCUREMENT, NAVY		(DOD Exhibit F40)		Date:	
BUDGET ITEM JUSTIFICATION SHEET					
P-1 Item Nomenclature					
Appropriation/Budget Activity					
Other Procurement, Navy					
3 - Aviation Support Equip - Sonobuoys					
P-1 # 125					
AN/SSQ-36 (BT) Sonobuoy					
NARM #400500					
PEO(A) PROGRAM					
FY95 FY96 FY97 FY98 FY99 FY00 FY01					
QUANTITY (In Thous)					
COST (In Millions)					
2.3		0.2		0.9	
1.0		0.9		0.9	
The AN/SSQ-36 is an air-dropped bathythermograph transmitting set that is used to provide a vertical temperature profile of the ocean with respect to depth. The data is transmitted to The ASW aircraft to assist in the selection of hydrophone depths and tactics in the localizing and tracking of submarines. The information on ambient water conditions is also used for long forecasts of acoustic conditions in the ocean.					
The FY 95 contract has been awarded to Hermes for a quantity of 11,982 AN/SSQ-36's.					
The FY 96 program provides for 488 AN/SSQ-36's to be competed among qualified manufacturers.					
The FY 97 program provides for 4,100 AN/SSQ-36's to be competed among qualified manufacturers.					
/					

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Appropriation/Budget Activity		OTHER PROCUREMENT, NAVY PROGRAM COST BREAKDOWN		Date:							
Other Procurement, Navy		P-1 Item Nomenclature		Subhead No.:							
3 - Aviation Support Equipment -		P-1 # 125									
Sonobuoys		NARM #400500									
		AN/SSQ-36(BT) Sonobuoy PEO(A) PROGRAM		U3QG							
		(Total Cost in Thousands, Quantity each)									
COST CODE	ELEMENT OF COST	ID CODE	FY-95		FY-96		FY-97		TOTAL COST	QTY	TOTAL COST
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST			
QG001	AN/SSQ-36 w/SLC*	A		2,129		174		820			
	Delivered to Fleet		11,630		473		3,977				
	Lot Acceptance Buoys		352		15		123				
QG830	PRODUCTION ENGINEERING			64		12		50			
QG860	ACCEPTANCE TESTING			91		11		53			
T O T A L			11,982	2,284	488	197	4,100	923			
*SONOBUOY LAUNCH CONTAINER											
P-1 Shopping List Item No.										Page No	
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OTHER PROCUREMENT, NAVY												(DOD Exhibit P5A)		Date:																			
PROCUREMENT HISTORY & PLANNING																																	
P-1 Item Nomenclature																																	
P-1 # 125																																	
PEO(A) PROGRAM																																	
U3QG																																	
Sonobuoys																																	
AN/SSQ-36 (BT) Sonobuoy																																	
CON-TRACTOR & LOCATION												CON-TRACT METHOD AND TYPE		CON-TRACTED BY DATE		DATE OF FIRST DELIVERY		UNIT COST		SPECS AVAIL NOW? WHEN?		ARE SPEC REVI-SIONS REQ?		IF YES, WHEN AVAIL-ABLE									
ELEMENT OF COST FISCAL YEAR																																	
FY 95																																	
U3QG/ AN/SSQ-36 w/SLC												C/FFP		NAWC IN		12/94		1/96		11,982		157.99		YES		NO							
001																																	
FY 96																																	
U3QG/ AN/SSQ-36 w/SLC												NOT SELECTED		C/FFP		NAWC IN		3/96		3/97		488		356.74		YES		NO					
001																																	
FY 97																																	
U3QG/ AN/SSQ-36 w/SLC												NOT SELECTED		C/FFP		NAWC IN		12/96		10/97		4,100		200.00		YES		NO					
001																																	
REMARKS:																																	

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Appropriation/Budget Activity		OTHER PROCUREMENT, NAVY PROGRAM COST BREAKDOWN		Date:			
Other Procurement, Navy		P-1 Item Nomenclature		Subhead No.:			
3 - Aviation Support Equipment -		P-1 # 125 NARM #400500					
Sonobuoys		AN/SSQ-36 (BT) Sonobuoy PEO(A) PROGRAM		U3QG			
		(Total Cost in Thousands, Quantity each)					
COST CODE	ELEMENT OF COST	ID CODE	FY-98		FY-00		FY-01
			QTY	TOTAL COST	QTY	TOTAL COST	
QG001	AN/SSQ-36 w/SLC*	A	3,907	850			
	Delivered to Fleet				3,766	3,649	3,661
	Lot Acceptance Buoys		121		116	113	113
QG830	PRODUCTION ENGINEERING			51		51	31
QG860	ACCEPTANCE TESTING			55		54	43
T O T A L			4,028	956	3,882	941	934
*SONOBUOY LAUNCH CONTAINER			P-1 Shopping List Item No.		Page No		
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OTHER PROCUREMENT, NAVY										(DOD Exhibit F40)		Date:									
BUDGET ITEM JUSTIFICATION SHEET																					
Appropriation/Budget Activity										P-1 Item Nomenclature											
Other Procurement, Navy										P-1 # 126											
3 - Aviation Support Equip - Sonobuoys										AN/SSQ-62 (DICASS) Sonobuoy NARM #403200											
										PEO (A) PROGRAM											
FY95 FY96 FY97 FY98 FY99 FY00 FY01																					
QUANTITY (In Thous)																					
COST (In Millions)																					
23.8										4.0		22.7		22.9		32.2		31.9		26.7	
The AN/SSQ-62 (DICASS) sonobuoy is a directional active sonobuoy that provides target bearing and range information on the submarine with each echo.																					
The AN/SSQ-62D is an ECP to the AN/SSQ-62C incorporating the following changes:																					
(1) Add shallow and deep family of depths, selectable at Electronic Function Select, and																					
(2) remove grey overpack shipping/storage container.																					
The FY 95 contract has been awarded to Sparton for a quantity of 22,152 AN/SSQ-62C's.																					
The FY 96 program provides for 1,994 AN/SSQ-62D's to be competed among qualified manufacturers.																					
The FY 97 program provides for 22,267 AN/SSQ-62D's to be competed among qualified manufacturers.																					

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OTHER PROCUREMENT, NAVY PROCUREMENT HISTORY & PLANNING P-1 Item Nomenclature										(DOD Exhibit P5A) Date:	
Appropriation/Budget Activity				Subhead No.:							
Other Procurement, Navy				U3QF							
3-Aviation Support Equipment-				PEO (A) PROGRAM							
Sonobuoys				AN/SSQ-62 (DICASS) Sonobuoy							
COST CODE	ELEMENT OF COST FISCAL YEAR	CON- TRACTOR & LOCATION	CON- TRACT METHOD AND TYPE	CON- TRACTED BY	AWARD DATE	DATE OF FIRST DELIV- ERY	QTY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVI- SIONS REQ?	IF YES, WHEN AVAIL- ABLE
U3QF/ 001	FY 95 AN/SSQ-62C w/SLC*	SPARTON FLORIDA	C/FFP	NAWC IN	2/95	2/96	22,152	973.57	YES	NO	
U3QF/ 001	FY 96 AN/SSQ-62D w/SLC*	NOT SELECTED	C/FFP	NAWC IN	3/96	3/97	1,994	1,785.51	YES	NO	
U3QF/ 001	FY 97 AN/SSQ-62D w/SLC*	NOT SELECTED	C/FFP	NAWC IN	12/96	10/97	22,267	948.00	YES	NO	
REMARKS:											

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OTHER PROCUREMENT, NAVY		(DOD Exhibit P40)		Date:			
BUDGET ITEM JUSTIFICATION SHEET							
P-1 Item Nomenclature							
Appropriation/Budget Activity		P-1 # 127		NARM #403800			
Other Procurement, Navy		AN/SSQ-110		PEO(A) PROGRAM			
3 - Aviation Support Equip - Sonobuoys		(EER) Extended Echo Ranging Sonobuoy					
	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY (In Thous)							
COST (In Millions)	37.0	21.4	36.0	36.2	37.8	37.5	36.3

The AN/SSQ-110 is an air-dropped active source buoy to be used in conjunction with the AN/SSQ-77B to perform Extended Echo Ranging (EER) system active search.

The FY 95 contract has been awarded to Magnavox for a quantity of 43,956 AN/SSQ-110A's.

The FY 96 program provides for 23,312 AN/SSQ-110A's to be competed among qualified manufacturers.

The FY 97 budget request provides for 44,248 AN/SSQ-110A's to be competed among qualified manufacturers.

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Appropriation/Budget Activity		OTHER PROCUREMENT, NAVY		(DOD Exhibit P5)		Date:		
Other Procurement, Navy		PROGRAM COST BREAKDOWN		P-1 Item Nomenclature		Subhead No.:		
3 - Aviation Support Equipment - Sonobuoys		P-1 # 127		NARM #403800				
		AN/SSQ-110		PEO(A) PROGRAM				
		(EER) Extended Echo Ranging Sonobuoy		U3QK				
		(Total Cost in Thousands, Quantity each)						
COST CODE	ELEMENT OF COST	ID CODE	FY-95		FY-96		FY-97	
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
QK001	AN/SSQ-110A	A		34,470		19,066		33,655
	Delivered to Fleet		42,740		22,613		42,921	
	Lot Acceptance Buoys		1,216		699		1,327	
QK830	PRODUCTION ENGINEERING			1,035		1,144		798
QK860	ACCEPTANCE TESTING			1,465		1,239		1,508
	T O T A L		43,956	36,970	23,312	21,449	44,248	35,961
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OTHER PROCUREMENT, NAVY PROCUREMENT HISTORY & PLANNING (DOD Exhibit P5A)												Date:
Appropriation/Budget Activity P-1 Item Nomenclature												Subhead No.:
Other Procurement, Navy 3-Aviation Support Equipment- Sonobuoys												U3QK
AN/SSQ-110 (EER) Extended Echo Ranging Sonobuoy												
COST CODE	ELEMENT OF COST FISCAL YEAR	CON- TRACTOR & LOCATION	CON- TRACT METHOD AND TYPE	CON- TRACTED BY	AWARD DATE	DATE OF FIRST DELIV- ERY	QTY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVI- SIONS REQ?	IF YES, WHEN AVAIL- ABLE	
	FY 95											
U3QK/ 001	AN/SSQ-110A	MAGNAVOX INDIANA	C/FFP	NAWC IN	6/95	6/96	43,956	773.32	YES	NO		
	FY 96											
U3QK/ 001	AN/SSQ-110A	SELECTED	C/FFP	NAWC IN	4/96	4/97	23,312	817.85	YES	NO		
	FY 97											
U3QK/ 001	AN/SSQ-110A	SELECTED	C/FFP	NAWC IN	12/96	10/97	44,248	760.60	YES	NO		
REMARKS:												

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UNCLASSIFIED CLASSIFICATION		(DOD Exhibit P5)		Date:						
OTHER PROCUREMENT, NAVY		PROGRAM COST BREAKDOWN		Subhead No.:						
Appropriation/Budget Activity		P-1 Item Nomenclature								
Other Procurement, Navy		P-1 # 127 NARM #403800								
3 - Aviation Support Equipment -		AN/SSQ-110 PEO(A) PROGRAM								
Sonobuoys		(EER) Extended Echo Ranging Sonobuoy		U3QK						
		(Total Cost in Thousands, Quantity each)								
COST CODE	ELEMENT OF COST	ID CODE	FY-98		FY-99		FY-00		FY-01	
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
QK001	AN/SSQ-110A	A		32,879		33,623		33,369		32,283
	Delivered to Fleet		35,148		43,590		40,434		38,670	
	Lot Acceptance Buoys		1,087		1,348		1,251		1196	
QK830	PRODUCTION ENGINEERING			1,613		2,018		2,003		1,937
QK860	ACCEPTANCE TESTING			1,747		2,185		2,169		2,098
	T O T A L		36,235	36,239	44,938	37,826	41,685	37,541	39,866	36,318
			P-1 Shopping List Item No.		Page No					
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OTHER PROCUREMENT, NAVY									
BUDGET ITEM JUSTIFICATION SHEET									
Appropriation/Budget Activity		P-1 Item Nomenclature		P-1 #		Date:			
Other Procurement, Navy				NARM # 404200		PEO (A) PROGRAM			
3 - Aviation Support Equip - Sonobuoys									
		FY95	FY96	FY97	FY98	FY99	FY00	FY01	
QUANTITY (In Thous)									
COST (In Millions)	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
The AN/SSQ-86 Down Link Communication DLC Sonobuoy provides one-way acoustic communication between an ASW aircraft and a submerged submarine. It requires no avionics.									
The FY 95 contract has been awarded to Sparton for a quantity of 1,700 AN/SSQ-86's.									

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OTHER PROCUREMENT, NAVY										(DOD Exhibit P5A)		Date:							
PROCUREMENT HISTORY & PLANNING																			
Appropriation/Budget Activity										P-1 Item Nomenclature		Subhead No.:							
Other Procurement, Navy										P-1 # 128		U3QN							
3-Aviation Support Equipment-Sonobuoys										AN/SSQ-86 (DLC) Sonobuoy									
COST ELEMENT OF COST		CON-TRACTOR & LOCATION		CON-TRACT METHOD AND TYPE		CON-TRACTED BY		AWARD DATE		DATE OF FIRST DELIVERY		UNIT COST		SPECS AVAIL NOW? WHEN?		ARE SPEC REVISIONS REQ?		IF YES, WHEN AVAIL-ABLE	
CODE FISCAL YEAR																			
FY 95		SPARTON FLORIDA		C/FFP		NAWC IN		2/95		12/95		1,700		393.42		YES		NO	
U3QN/AN/SSQ-86																			
001																			
REMARKS:																			

OTHER PROCUREMENT, NAVY										(DOD Exhibit P40)		Date:			
BUDGET ITEM JUSTIFICATION SHEET										P-1 Item Nomenclature		P-1 # 129			
Appropriation/Budget Activity										NARM # 400500		PEO (A) PROGRAM			
Other Procurement, Navy															
3 - Aviation Support Equip - Sonobuoys										Signal, Underwater Sound (SUS)					
FY95										FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY (In Thous)															
COST (In Millions)										0.0	0.0	1.1	1.4	1.4	1.4
Signal, Underwater Sound devices are expendable, high energy acoustic sources. The MK-84 is a non-explosive, electro-acoustic device which is launched from aircraft and transmits acoustic tones after water entry. The MK-84 SUS is used for training and exercise signaling to submarines.															
The FY 97 program provides for 3,700 SUS MK 84'S.															

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Appropriation/Budget Activity		OTHER PROCUREMENT, NAVY PROGRAM COST BREAKDOWN		Date:	
Other Procurement, Navy		P-1 Item Nomenclature		Subhead No.:	
3 - Aviation Support Equipment -		P-1 # 129			
Sonobuoys		SIGNAL, UNDERWATER		NARM # 404500	
		SOUND (SUS)		PEO(A) PROGRAM	
		(Total Cost in Thousands, Quantity each)		U3QH	
		FY-95		FY-96	
		FY-97			
		FY-98			
		FY-99			
		FY-00			
		FY-01			
		FY-02			
		FY-03			
		FY-04			
		FY-05			
		FY-06			
		FY-07			
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UNCLASSIFIED
CLASSIFICATION

OTHER PROCUREMENT, NAVY (DOD Exhibit P5A)										Date:	
PROCUREMENT HISTORY & PLANNING										Subhead No.:	
P-1 Item Nomenclature											
P-1 # 129											
PEO(A) PROGRAM											
Signal, Underwater Sound (SUS)											
COST CODE	ELEMENT OF COST FISCAL YEAR	CON- TRACTOR & LOCATION	CON- TRACT METHOD AND TYPE	CON- TRACTED BY	AWARD DATE	DATE OF FIRST DELIV- ERY	QTY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVI- SIONS REQ?	IF YES, WHEN AVAIL- ABLE
QH003	FY 97 SUS-MK 84	Not Selected	C/FFP	NAWC IN	12/96	10/97	3,700	264.32	YES	NO	

REMARKS:

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OTHER PROCUREMENT, NAVY
BUDGET ITEM JUSTIFICATION SHEET

(DOD EXHIBIT P-40)

DATE

MARCH 1996

NAVMAT FORM 7110.1

BUDGET ACTIVITY 3

AVIATION SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE

WEAPONS RANGE SUPPORT EQUIPMENT 43SC, P-1 # 130

QUANTITY	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
COST (IN MILLIONS)	\$ 62.1	\$ 47.2	\$ 27.8	\$ 26.7	\$ 50.1	\$ 52.6	\$ 48.7

This budget line item provides the resources to implement the Navy Fleet Training Range (FTR) Instrumentation Program Plan. These FTRs provide the primary means of fleet combat readiness training. The plan addresses the following major procurement areas: Electronic Warfare (EW) simulators, Weapons Impact Scoring Set (WISS) Replacement, Systems Replacement and Modernization (SRAM), Tactical Aircrew Combat Training Systems (TACTS), Communication Central Network Phase II (CCN-II), SOCAL Communications Upgrade and generic systems such as range computer systems, underwater training range systems and range tracking, simulation, and surveillance systems. The integral parts of these major range programs include but are not limited to the following: voice communications, weapons scoring systems, EW emitters/jammers, display consoles, radars, tracking subsystems, control/computation systems, display/debriefing subsystems, processors, HF/VHF/UHF receivers, transmitters/transceivers, multiplexers, intercom circuits, encoding devices, frequency interface control systems, power equipment, sonobouy tracking systems, bottom mounted underwater hydrophone systems, phase shift keying processors, and other specialized equipment.

Justification: Operational forces of the Navy's air, surface, and subsurface units are being equipped with the latest complex and sophisticated weapon systems to achieve and maintain high standards of fleet readiness. The FTRs must be furnished with training equipment capable of simulating, tracking, displaying, and debriefing the latest combat environments (e.g. electronic warfare). This equipment provides the Navy with the capability to: conduct safe fleet training exercises; achieve a high state of readiness; objectively evaluate training effectiveness as well as the strategy and tactics employed; evaluate the performance of equipment; and, to measure reliability and accuracy of operational weapon systems.

OTHER PROCUREMENT, NAVY BUDGET ITEM JUSTIFICATION SHEET

(DOD EXHIBIT P-40)

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NAVMAT FORM 7110.1

MARCH 1996

BUDGET ACTIVITY 3

P-1 ITEM NOMENCLATURE

AVIATION SUPPORT EQUIPMENT

WEAPONS RANGE SUPPORT EQUIPMENT 43SC, P-1 # 130

QUANTITY	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
COST (IN MILLIONS)	\$ 62.1	\$ 47.2	\$ 27.8	\$ 26.7	\$ 50.1	\$ 52.6	\$ 48.7

AIRCREW ELECTRONIC WARFARE TRAINING RANGES (AEWTR):

The AEWTR provides a simulated hostile EW environment in which aircrews can be trained. The AEWTR consists of operational ranges at NAS Fallon, NV; MCAS Yuma, AZ; and MCAS Cherry Pt, NC and other special purpose training sites; e.g. Whidbey. The Fallon, Cherry Pt, and Yuma EW ranges are being integrated into the TACTS ranges which are co-located there. The integration allows the TACTS system to provide 36 A/C tracking data to the EW range for EW emitter pointing and also allows EW debrief through the TACTS debriefing system.

FY 1995 funding integrated, (with Yuma TACTS), 4 Mobile IR Threat Systems known as the "Avenger". The Avenger system is a vehicle mounted system operated by the USMC units at MCAS Yuma. FY 1995 funding procured 7 Threat Radar Emitter Simulators (TRES) AN/GPQ-11(V)s for MCAS Yuma and the hardware and software necessary to integrate with TACTS. Also, FY 1995 funding provided interfaces for integration of Marine Air Command and Control Squadron (MACCS), Light Anti-Aircraft Missile (LAAM) Battalion and Low-Altitude Air Defense (LAAD) units at MCAS Cherry Point into TACTS to enhance target area threat density and diversity.

FY 1996 funding will procure 5 Threat Radar Emitter Simulators (TRES) for MCAS Yuma and the hardware and software necessary to integrate with TACTS.

WEAPONS IMPACT SCORING SET (WISS) REPLACEMENT:

The WISS is an electro-optical scoring system which scores inert and live ordnance weapons delivery at Fleet training ranges. This WISS Replacement Program will provide a complete change-out of existing outdated/obsolete WISS at the FTRs with an improved and logistically supportable system. FY 1995 funding will procure nine WISS (V4) systems. The first system will achieve IOC in September 1996. Installation support required in FY 95 is for site preparation at Camp Lejeune, and Okinawa. FY 1996 funding will procure 15 WISS (V4) systems. Installation support required for FY 96 is for site preparation at MCAS Cherry Point and NAF El Centro.

(DOD EXHIBIT P-40) DATE

NAVMAT FORM 7110.1

P-1 ITEM NOMENCLATURE

WEAPONS RANGE SUPPORT EQUIPMENT 43SC, P-1 # 130

QUANTITY	UNIT PRICE	TOTAL PRICE
1	100	100
2	200	400
3	300	900
4	400	1600
5	500	2500
6	600	3600
7	700	4900
8	800	6400
9	900	8100
10	1000	10000

The SRAM program provides for the procurement of numerous minor equipments/instrumentation needed at all Navy training ranges. SRAM procurements replace and modernize economically unmaintainable systems and equipment in order to increase range efficiency. Generally, the receiving activity will accomplish installation of these minor equipments; whereas, the more complex equipments may require installation support from other agencies. Funding for installation of minor equipment required in all years at all ranges.

The TACTS was developed in the early 1970's in response to the large Aircrew losses in Vietnam. TACTS tracks aircraft and monitors weapon systems during training missions. Weapons simulations are run by the TACTS in response to aircrew actions. Results are displayed in real-time and recorded for post mission debrief. The original system was installed at Yuma, AZ and a follow-on system was installed at Oceana, VA.. Navy Decision Coordinating Paper (NDCP) W0431-AA established a requirement to continue development of new training techniques and capabilities through TACTS upgrades. The USAF has adopted the TACTS, renamed the Air Combat Maneuvering Instrumentation (ACMI), and more recently the Air Combat Training System (ACTS), as their standard aircrew training system. The latest generation 36 A/C system achieved an initial operating capability at Fallon NV in 1985. Other 36 A/C systems have been installed at Cherry Point NC and Beaufort, SC. The Yuma and Oceana systems have also been upgraded to the 36 A/C configuration.

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UNCLASSIFIED
CLASSIFICATION

OTHER PROCUREMENT, NAVY										(DOD EXHIBIT P-40)	DATE
BUDGET ITEM JUSTIFICATION SHEET											MARCH 1996
P-1 ITEM NOMENCLATURE											
WEAPONS RANGE SUPPORT EQUIPMENT 43SC, P-1 # 130											
BUDGET ACTIVITY 3											
AVIATION SUPPORT EQUIPMENT											
QUANTITY		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001			
COST (IN MILLIONS)		\$ 62.1	\$ 47.2	\$ 27.8	\$ 26.7	\$ 50.1	\$ 52.6	\$ 48.7			

SHALLOW WATER RANGE (SW RANGE):

Existing underwater ranges are situated in deep water and cannot provide training in ASW tactics employed in shallow coastal waters. A Mission Needs Statement (MNS) for Shallow Water training instrumentation has been endorsed by both Atlantic and Pacific fleets and signed by N8. Fixed instrumentation is required to preclude the recurring cost of periodic retrieval and maintenance of mobile systems. FY 1997 funds the LANTFLT requirement for the procurement of the initial increment of a 125 square NM shallow water range and range control equipment at Onslow Bay, NC.

COMMUNICATIONS UPGRADE (TWENTYNINE PALMS):

Certain training sites within the Twentynine Palms' operating area do not have communications with the Twentynine Palms BEARMAT control facility. FY 1997 funding will procure eight solar powered communications suites and a backbone microwave link back to BEARMAT for continuous communications with aircraft and ground personnel operating throughout the Twentynine Palms operating area. Installation support for FY97 is for site preparation at Twenty-Nine Palms.

COMMUNICATION CENTRAL NETWORK PHASE II (CCN-II):

CCN-I was funded in FY 1988 to provide digital communication switches to support three Tracking and Control (T&C) rooms at PMRF. CCN-II will complete the conversion of the PMRF range communications system from analog to digital equipment. The FY 1995 funds will provide new HF antennas, new VHF/UHF systems, modernize and consolidate the FM nets, provide new portable transceivers, upgrade the HF equipment, provide a new LAN and WAN, upgrade the communication switch, and upgrade the message center switch.

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BUDGET ITEM JUSTIFICATION SHEET

(DOD EXHIBIT P-40)

DATE

NAVMAT FORM 7110.1

MARCH 1996

BUDGET ACTIVITY 3

AVIATION SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE

WEAPONS RANGE SUPPORT EQUIPMENT 43SC, P-1 # 130

QUANTITY	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
COST (IN MILLIONS)	\$ 62.1	\$ 47.2	\$ 27.8	\$ 26.7	\$ 50.1	\$ 52.6	\$ 48.7

PACIFIC MISSILE RANGE FACILITY UPGRADE:

FY 1995 funding of \$21.5M will include the following projects: (1) \$2.5M for a range operations control system upgrade and improvements to range standard configurations; (2) \$1.0M to replace a launch pad sequencer to provide multiple missile launch capability; (3) \$3.0M to upgrade range airborne targets, missiles, and high performance aircraft; (4) \$1.5M to fund underwater tracking system processor upgrade from an analog to a digital system utilizing naval gunfire support simulator chassis; (5) \$4.55M to support several electronic warfare improvement projects including integration and workstations for distributed interactive simulations to improve training; (6) \$250K for torpedo weapon recovery boat improvements; (7) \$200K to acquire a periscope buoy for littoral warfare test and evaluation and training support; (8) \$2.0M for procurement and integration of a replacement high performance video tracker system including digital visual imaging improvements; (9) \$1.5M to procure three (3) command and control transmitters; (10) \$4.0M to procure remote launcher support activities; and (11) \$1.0M to acquire a full-scale target boat to support over-the-horizon firings and include provisions for integration of electronic warfare and target electronics systems to provide a realistic target capability.

FY 1996 funding of \$9.5M will include the following projects: (1) \$6.3M for the procurement of test range site integration equipment; (2) \$2.0M for the procurement of a mobile-periscope buoy; (3) \$.3M for the procurement of air defense system maintenance equipment and (4) \$.9M for the procurement of a computer replacement for the Joint Tactical Information Distribution System (JTIDS).

SOCAL COMM UPGRADE:

The existing data links at the remote training sites on San Clemente Island (SCI) and the range operations center (ROC) at North Island are inadequate to handle all of the data from new instrumentation systems. Planned training range instrumentation cannot be utilized until additional communication capability is provided. FY 1995 funding provided SOCAL with an upgraded data link between the ROC on North Island and Mt. Thirst on San Clemente Island. FY 1996 funding will add data links between the main microwave site on San Clemente and various remote equipment sites. The expanded capability is required to support OTH-T communications, Large Area Tracking Range (LATR), EW range expansion, and Joint Tactical Combat Training System (JTCTS). It will provide Mt. Thirst to REWS connectivity, North Island connectivity, RF systems upgrade, a LAMPS III Repeater, expanded digital data links between North Island and SCI, an HF Upgrade, and a VHF/UHF Upgrade.

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P-1 SHOPP LIST

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DATE

MARCH 1996

NAVMAT FORM 7110.1

BUDGET ACTIVITY 3

AVIATION SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE

WEAPONS RANGE SUPPORT EQUIPMENT 43SC, P-1 # 130

	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY							
COST (IN MILLIONS)	\$ 62.1	\$ 47.2	\$ 27.8	\$ 26.7	\$ 50.1	\$ 52.6	\$ 48.7

CHERRY POINT INFRASTRUCTURE:

The FY 1995 funding provided a Range Communication capability (MAEWR ROCC) with ships at sea. FY 1995 funding procured a Low Level Air/Surface Radar for MCB Camp Lejeune capable of detecting low-flying helicopter, private aircraft, and surface craft to ensure range safety. Installation support is required in FY-96 for site preparation at MCB Camp Lejeune, NC. Also, FY 1996 funding will provide communications among the various operating areas for exercise control and range safety. Installation support is required in FY 1997 to install consoles, workstations, and communications (UHF/VHF/Intercom) at Camp Lejeune, NC.

TELEMETRY EQUIPMENT:

The Telemetry Equipment program will upgrade and modernize equipment, inclusive of related target control systems/equipment, at Fleet Telemetry (TM) stations and the Pacific Missile Range Facility (PMRF). These stations are located in Greece, Puerto Rico, Virginia and Hawaii. Present telemetry stations are based on telemetry requirements established in the early 1970s. Since then, missiles have advanced in sophistication and complexity including a move from analog to digital technology. Prior year funding has provided modest on-going improvements and modernization program to replace least reliable equipments and meet the most urgent telemetry requirements for new weapon systems. The only exception being the Puerto Rico Station. Consequently, the stations have become increasingly difficult and expensive to maintain and are not suited to handling the new digital TM formats required by new emerging weapon systems.

FY 1995 funding completed upgrade of Oceana TM station.

FY 1996 funding will upgrade tracking, processing, and display elements of Portable Air-launched Missile Telemetry Acquisition System (PATAS).

FY 1997 funding will continue to upgrade the tracking, processing, and display elements of PATAS and upgrade the AFWTF TM station.

CLASSIFICATION

WEAPON SYSTEM COST ANALYSIS EXHIBIT (DOD EXHIBIT P-5)										DATE
APPROPRIATION: OPN										MARCH 1996
BUDGET ACTIVITY 3										SUBHEAD #.
AVIATION SUPPORT EQUIPMENT										43SC
P-1 ITEM NOMENCLATURE P-1 # 130										
WEAPONS RANGE SUPPORT EQUIPMENT										
(Total cost in thousands of dollars)										
COST CODE	ELEMENT OF COST	IDENT CODE	FY 1995		FY 1996		FY 1997			
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST		
SC002	AIRCREW EW TRAINING RANGES MAEWR Threat Emitters MACCS (Cherry Point) Yuma	N/A		[9,254]		[3,188]				
			1	1,125						
			7	6,020	5	3,188				
			2	1,200						
			4	909						
SC003	AVENGER									
	WISS REPLACEMENT	N/A	9	3,919	15	8,073				
SC004	SYSTEMS REPLACEMENT AND MODERNIZATION (SRAM)	N/A	N/A	5,292	N/A	5,579	N/A	5,774		
Exhibit P-5 Weapon System Cost Analysis										
P-1 SHOPP. LIST ITEM NO. 130			PAGE NO.		UNCLASSIFIED CLASSIFICATION					
			7							

UNCLASSIFIED

CLASSIFICATION

WEAPON SYSTEM COST ANALYSIS EXHIBIT

(DOD EXHIBIT P-5)

DATE

MARCH 1996

SUBHEAD #.

43SC

APPROPRIATION: OPN

BUDGET ACTIVITY 3

P-1 ITEM NOMENCLATURE P-1 # 130

AVIATION SUPPORT EQUIPMENT

WEAPONS RANGE SUPPORT EQUIPMENT

COST CODE	ELEMENT OF COST	IDENT CODE	(Total cost in thousands of dollars)					
			FY 1995		FY 1996		FY 1997	
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
SC007	TACTICAL AIRCREW COMBAT TRAINING SYSTEM (TACTS) Fallon/Nellis Microwave Link Yuma Low Altitude TACTS Tracking Cherry Point Upgrade TACTS Control & Computational Subsystem	N/A	1	[1,923]		[2,025]		
				1,923	1	586		1,200
					1	1,439		13,260
SC012	SW RANGE (LANT)							
SC018	COMM UPGRADE (TWENTYNINE PALMS)	N/A					N/A	787
SC027	CCN-II		1	6,000				
SC028	PACIFIC MISSILE RANGE FACILITY UPGRADE (PMRF)	N/A	1	21,500	1	9,462		
SC037	SOCAL COMM UPGRADE		N/A	1,000	N/A	5,899		
Exhibit P-5 Weapon System Cost Analysis			P-1 SHOPP. LIST ITEM NO. 130	PAGE NO. 8	UNCLASSIFIED CLASSIFICATION			

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WEAPON SYSTEM COST ANALYSIS EXHIBIT

(DOD EXHIBIT P-5)

APPROPRIATION: OPN	DATE MARCH 1996
BUDGET ACTIVITY 3 AVIATION SUPPORT EQUIPMENT	SUBHEAD #. 43SC
P-1 ITEM NOMENCLATURE P-1 # 130 WEAPONS RANGE SUPPORT EQUIPMENT	

COST CODE	ELEMENT OF COST	IDENT CODE	(Total cost in thousands of dollars)					
			FY 1995		FY 1996		FY 1997	
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
SC040	CHERRY POINT INFRASTRUCTURE			[1,680]		[719]		
	MAEWR ROCC		1	380				
	Low Alt Tracking MCB Camp Lejeune		1	1,300				
	Comm Suite				1	719		
SC601	TELEMETRY		N/A	995	N/A	1,203	N/A	1,000
SC831	Production Engineering, Other Ranges	N/A	N/A	5,779	N/A	6,899	N/A	3,133
SC860	Acceptance Test & Evaluation	N/A	N/A	520	N/A	839	N/A	954
SC971	ILS, Other Ranges	N/A	N/A	2,026	N/A	2,093	N/A	869
SC900	Installations of Equip-Non FMP	N/A	N/A	2,223	N/A	1,258	N/A	816
	TOTAL			62,111		47,237		27,793

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BUDGET PROCUREMENT HISTORY AND PLANNING (DOD EXHIBIT P-5A)										DATE
BUDGET ACTIVITY 3 AVIATION SUPPORT EQUIPMENT										MARCH 1996
P-1 ITEM NOMENCLATURE P-1 # 130 WEAPONS RANGE SUPPORT EQUIPMENT										SUBHEAD NO. 43SC
LINE ITEM/FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQUIRED?	IF YES, WHEN AVAIL?
<u>SC002 AIRCREW EW</u>										
<u>CHERRY POINT</u> MACCS	NAWC-WD CHINA LAKE, CA	PX	NAVAIR	12/94	01/97	1	1,125	YES	NO	N/A
<u>YUMA:</u> Threat Emitters	CTA RIDGECREST, CA	CPAF	NAWC-WD CL, CA	12/94	06/96	7	*6,020	YES	NO	N/A
	CTA RIDGECREST, CA	CPAF	NAWC-WD CL, CA	03/96	09/97	5	*3,188	YES	NO	N/A
Comm System Interface	CTA RIDGECREST, CA	CPAF	NAWC-WD CL, CA	12/94	06/96	2	*1,200	YES	NO	N/A
Avenger Integration	NAWC-WD CHINA LAKE, CA	PX	NAVAIR	12/94	06/96	4	227	YES	NO	N/A
REMARKS:										

BUDGET PROCUREMENT HISTORY AND PLANNING										(DOD EXHIBIT P-5A)		DATE	
BUDGET ACTIVITY 3										MARCH 1996		SUBHEAD NO.	
AVIATION SUPPORT EQUIPMENT										P-1 ITEM NOMENCLATURE P-1 # 130		43SC	
WEAPONS RANGE SUPPORT EQUIPMENT													
LINE ITEM/FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW? WHEN?	ARE SPECS REVISIONS REQUIRED?	IF YES, WHEN AVAILABLE?			
SC003 WISS REPL	1995 NWAD, CORONA, CA	PX	NAVAIR	12/94	01/96	9	***3,919	YES	NO	N/A			
	1996 NWAD, CORONA, CA	PX	NAVAIR	02/96	03/97	15	***8,073	YES	NO	N/A			
SC004 SYS REPL & MOD													
1995	VARIOUS	VARIOUS	FED IND SUP CTR	**	08/95	N/A	5,292	YES	NO	N/A			
1996	VARIOUS	VARIOUS	FED IND SUP CTR	**	08/96	N/A	5,579	YES	NO	N/A			
1997	VARIOUS	VARIOUS	FED IND SUP CTR	**	08/97	N/A	5,774	YES	NO	N/A			

REMARKS:

* Unit cost varies with Threat Configuration: Total cost shown.

** SRAM consists of approximately 70 projects each FY with award dates starting when funds are released and continuing until 31 MARCH of current FY.

*** Total cost is shown. Unit cost will vary by site, due to unique turnkey installation requirements and range unique configurations.

BUDGET PROCUREMENT HISTORY AND PLANNING										
APPROPRIATION		(DOD EXHIBIT P-5A)					DATE			
OPN							MARCH 1996			
BUDGET ACTIVITY 3		P-1 ITEM NOMENCLATURE P-1 # 130					SUBHEAD NO.			
AVIATION SUPPORT EQUIPMENT		WEAPONS RANGE SUPPORT EQUIPMENT					43SC			
LINE ITEM/FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQUIRED?	IF YES, WHEN AVAIL?
<u>SC007 TACTS</u>										
1995 FALLON/NELLIS LINK	NWAD, CORONA, CA	PX	NAVAIR	12/94	02/97	1	1,923	YES	NO	N/A
1996 YUMA LOW ALT TACTS	ADTI SAN DIEGO, CA	C/FFP	NAWC-AD PX, MD	03/96	01/97	1	586	YES	NO	N/A
1996 CHERRY PT UPGRADE	ADTI SAN DIEGO, CA	C/FFP	NAWC-AD PX, MD	03/96	04/97	1	1,439	YES	NO	N/A
1997 TACTS CCS	CTA RIDGECREST, CA	CPAF	NAWC-WD CL, CA	11/96	10/97	4	300	09/96	N/A	N/A
1997 <u>SC012 SW RANGE</u>	TBD	FPIF	NAVAIR	12/96	12/98	1	13,260	06/96	NO	N/A
1997 <u>SC018 COMM UPGRADE</u>	NWAD, CORONA CA	PX	NAVAIR	12/96	12/98	N/A	787	YES	NO	N/A
<u>TWENTY-NINE PALMS</u>										
1995 <u>SC027 CCN-II</u>	VARIOUS	C/FFP/PO	NISE-W S.D., CA	12/94	11/96	1	6,000	YES	NO	N/A
1995 <u>SC028 PMRF UPGRADE</u>	VARIOUS	PX	NAVAIR	11/95	03/96	1	21,500	YES	NO	N/A
1996	VARIOUS	PX	NAVAIR	08/96	02/97	1	9,462	YES	NO	N/A
DD Form 2446-1, JUL 87		P-1 SHOPP. LIST ITEM NO. 130		PAGE NO 12	UNCLASSIFIED CLASSIFICATION					

UNCLASSIFIED

CLASSIFICATION

APPROPRIATION

(DOD EXHIBIT P-5A)

DATE

OPN

BUDGET PROCUREMENT HISTORY AND PLANNING

MARCH 1996

BUDGET ACTIVITY 3

P-1 ITEM NOMENCLATURE P-1 # 130

SUBHEAD NO.

AVIATION SUPPORT EQUIPMENT

WEAPONS RANGE SUPPORT EQUIPMENT

43SC

LINE ITEM/FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQUIRED?	IF YES, WHEN AVAIL?
SC037 SOCIAL COMM UPGRADE	1995 ALCALTEL DALLAS, TX	C/FFP	NISE-W S.D., CA	12/94	03/95	N/A	1,000	YES	NO	N/A
	1996 NISE-W S.D., CA	PX	NAVAIR	02/96	02/98	N/A	5,899	YES	NO	N/A
SC040 CHERRY POINT INFRASTRUCTURE	1995 VARIOUS	C/FFP/PO	NAWC-AD PAX, MD	12/94	12/96	1	380	YES	NO	N/A
MAEWR ROCC	1995 VARIOUS	C/FFP/PO	NWAD, CA	01/95	02/97	1	1,300	YES	NO	N/A
LOW ALT TRK	1995 VARIOUS	C/FFP/PO	NWAD, CA	03/96	04/97	1	719	YES	NO	N/A
COMM SUITE	1996 NAWC-AD PAX, MD	C/FFP/PO	NAVAIR							
SC601 TELEMETRY	1995 Various	C/FFP/PO	NWAD, CA	12/94	06/96	N/A	995	YES	NO	N/A
	1996 Various	C/FFP/PO	NWAD, CA	02/96	08/97	N/A	1,203	YES	NO	N/A
	1997 Various	C/FFP/PO	NWAD, CA	12/96	06/98	N/A	1,000	YES	NO	N/A

REMARKS:

DD Form 2446-1, JUL 87

P-1 SHOPP. LIST ITEM NO. 130	PAGE NO 13
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UNCLASSIFIED CLASSIFICATION

P-1 LINE ITEM # 130

Weapons Range Support Equipment

MODIFICATION INSTALLATION SUMMARY

(TOA, DOLLARS IN MILLIONS)

SYSTEM/MODIFICATION	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	TOTAL
SRAM	0.7	0.7	0.7	0.4	0.6	0.5	0.7	4.3 1/
WISS	0.8	0.2	-	-	-	-	-	1.0 1/
LATR	0.7	-	-	-	-	-	-	0.7
EWROC	0.1	-	-	-	-	-	-	0.1 1/
LOW LEVEL (CH PT)	-	0.2	-	-	-	-	-	0.2 1/
FALLON/NELLIS LINK	-	0.2	-	-	-	-	-	0.2 1/
CH PT UPGRADE	-	-	0.1	-	-	-	-	0.1
MAEWR EW	-	-	-	-	-	0.9	0.7	1.6 1/
TOTAL	2.3*	1.3	0.8	0.4	0.6	1.4*	1.4	8.2

* NUMBERS ARE ROUNDED.

1/-Actual labor costs for installing equipment are budgeted on a turnkey basis with equipment costs. Budgeted installation amounts shown reflect funding required for site preparation and advanced planning only. Based on this, no P-3A exhibits were included in this submission for these items.

P-1 LINE ITEM # 130

INDIVIDUAL MODIFICATION

Weapons Range Support Equipment

MODIFICATION TITLE: LARGE AREA TRACKING RANGE

MODELS OF SYSTEMS AFFECTED: Mobile Sea Range (MSR), Tactical Aircrew Combat Training System (TACTS) DESCRIPTION/JUSTIFICATION: LATR will provide air and surface tracking out to a range of 500 nautical miles. It will provide real-time monitoring of the training exercise for the battle group commander and post exercise debrief for all surface participants and remote land sites. Installation of LATR will take place at SOCAL and VACAPES. Installation support is required in FY-95 to install LATR at SOCAL and VACAPES.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: (In Production) N/A

FINANCIAL PLAN: (\$ IN MILLIONS)		FY95 & PRIOR		FY96		FY97		FY98		FY99		FY00		FY01		FY02		TO COMP		TOTAL	
		QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
PROCUREMENT																					
KIT QUANTITY																					
INSTALLATION KITS (\$000)		*	2	18.9																	
INSTALLED EQUIPMENT																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
TOTAL PROCUREMENT COST		2	18.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	18.9
INSTALLATION OF MODIFICATION HARDWARE																					
FY93 EQUIPMENT		2	0.7																		
TOTAL INSTALLATION COST		2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.7
TOTAL COST		2	19.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	19.6

METHOD OF IMPLEMENTATION: Contractor/Field Contact Team

Contract Date: FY 1993: 2Q/FY93

Production Delivery Date: FY 1993: 4Q/FY95

INSTALLATION SCHEDULE:

FY95		FY96																					
1	2	3	4	1	2	3	4																
INPUT	FY93																						
OUTPUT	FY93																						

ADMIN LEADTIME: 6 MOS PRODUCTION LEADTIME: 29 MOS

*- Procured with FY-93 funding.

EXHIBIT P-3A

UNCLASSIFIED
CLASSIFICATION

DATE MARCH 1996

REQUIREMENTS STUDY NOT INSTALLED NONCONSUMABLES

P-1 ITEM NOMENCLATURE # 130
43SC WEAPONS RANGE SUPPORT EQUIPMENT P-1

APPROPRIATION/BUDGET ACTIVITY
3 AVIATION SUPPORT EQUIPMENT

ITEM	TOTAL I.O. ROMNT	QTY ON HAND AND NOT IN USE	QTY IN USE	QTY DUE IN W/FY95 AND PRIOR FUNDS	PLANNED BUDGET YEAR PROCUREMENT 96	PLANNED BUDGET YEAR PROCUREMENT 97	BALANCE	PHASING RATIONALE
1. SC001 REWS EWRM	2	0	*1	0	0	0	1	
SC002 AIRCREW EW								
2. THREAT EMITTER	146	0	30	19	5	0	92	FISC CONSTRAINTS
3. MACCS	1	0	0	1	0	0	0	
4. AVENGER	6	0	0	4	0	0	2	FISC CONSTRAINTS
5. SC003 WISS	24	0	0	9	15	0	0	
6. SC007 FALLON/NELLIS	1	0	0	1	0	0	0	
7. SC007 YUMA LOW ALT	1	0	0	0	1	0	0	
8. SC007 CHERRY PT UPDR	1	0	0	0	1	0	0	
9. TACTS CCS	4	0	0	0	0	4	0	
10. SC012 SW RANGE	4	0	0	*1	0	1	2	FISC CONSTRAINTS
ITEM #1	ITEM #2	ITEM #3	ITEM #4	ITEM #5				
SC001 RANGE EW SIM	SC002 AIRCREW EW THREAT EMITTERS:	SC002 AIRCREW EW MACCS:	SC002 AVENGER:	SC003 WISS:				
AFWTF	YUMA 21	CHERRY PT. 1	MCAS YUMA 6	LANT 10				
SOCAL*	FALLON 68	TOTAL 1	TOTAL 6	PAC 14				
TOTAL 2	CHERRY 49			TOTAL 24				
	PINECAS 8							
	TOTAL 146							
* 1 R&D FUNDED UNIT								
ITEM #6	ITEM #7	ITEM #8	ITEMS #9	ITEM #10				
SC007 FALLON/NELLIS:	SC007 YUMA LOW ALT:	SC007 CHERRY PT UPGRADE:	SC007 TACTS CCS	SC012 SW RANGE:				
NAS FALLON 1	MCAS YUMA 1	MCAS CH PT 1	NAS FALLON 1	LANT 1				
TOTAL 1	TOTAL 1	TOTAL 1	MCAS CH PT 1	CAMP LEJ 1				
			MCAS BEAUF 1	PAC 1				
			MCAS YUMA 4	PMRF * 1				
				SOCAL 1				
				WESTPAC 1				
				TOTAL 4				

* PMRF FUNDED WITH RDT&E.

EXHIBIT P-23B

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P-1 SHOP LIST
ITEM NO. 130

UNCLASSIFIED
CLASSIFICATION

APPROPRIATION/BUDGET ACTIVITY

[illegible]

ITEM #1 <u>SC027 CCN-II:</u>	ITEM #2 <u>SC028 PMRF UPGRADE:</u>	ITEM #3 <u>SC040 CH PT INFRA:</u>			
PMRF	1	MCAS CH PT	1		
TOTAL	1	MCB LEJEUN	3		
		TOTAL	4		

UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET				(DOD EXHIBIT P-40)	Date
							MARCH 1996
Appropriation/Budget Activity		OTHER PROCUREMENT, NAVY		P-1 Item Nomenclature		P-1 # 131	
3 AVIATION SUPPORT EQUIPMENT - AIRCRAFT SUPPORT EQUIPMENT				EXPEDITIONARY AIRFIELD			
		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY							
COST (IN MILLIONS):		\$2.5	\$1.6	\$1.4	\$5.2	\$3.0	\$8.0
EXPEDITIONARY AIRFIELDS (EAF)							
This program provides for procurement of aircraft recovery equipment, landing mat and accessories, airfield lighting, and visual landing aids investment items for Naval Aviation Expeditionary Airfields (EAF). This core funding level directly supports the procurement and fielding of operational expeditionary airfield systems in the three active duty Marine Aircraft Wings and one Reserve Marine Aircraft Wing, testing and training installations, and the contingency assets for use by the Marine Expeditionary Forces during contingency operations. A total of forty-four (44) mobile arresting gear systems as well as associated equipment and accessories are procured and fielded with these funds. Equipment procurements are based on inventory shortfalls; a product improvement program to fill or correct known deficiencies; modernizing the EAF equipment to improve maintainability, reliability, and safety-of-flight operations; and to keep pace with new aircraft and aircraft systems. Additionally, equipment procurements will facilitate forward deployment of EAF systems aboard Rapid Deployment Force/ Maritime Prepositioning Squadron (RDF/MPS) ships which is a new operational requirement under the Marine Corp Master Plan, the Enhanced Maritime Prepositioning Squadron (EMPS) requirement, and the EAF 2000 concept. The FY 1996 program provided for F-70 Tool Kit service change, production engineering and integrated logistics support for EAF procurement products, and qualification testing and evaluation for the M-29 Arresting Gear. The FY 1996 program provides for service change kit procurements to upgrade the aged M-21 Arresting Gear to a safe condition until the M-31, next generation Marine Corp mobile Arresting Gear, is fully on line, F-70 Tool Kit service changes, Flatrack service changes to accommodate positioning EAF assets on MPS, and production engineering and integrated logistics support for EAF procurement products. The FY 1997 budget request provides for service change kit procurements for Flatracks to accommodate pre-positioning EAF assets on MPS, and production engineering and logistics support for EAF procurement products.							
		P-1 SHOPPING LIST.		PAGE NO.		UNCLASSIFIED	
		ITEM NO. # 131		1			

UNCLASSIFIED		WEAPON SYSTEM COST ANALYSIS		(DOD EXHIBIT P-5)		Date
Appropriation/Budget Activity		OTHER PROCUREMENT, NAVY		P-1 Item Nomenclature		SUBHEAD No.
3 AVIATION SUPPORT EQUIPMENT - AIRCRAFT SUPPORT EQUIPMENT		FY 1995		EXPEDITIONARY AIRFIELD		43SE
Element of Cost	Ident.	Cost	Qty	Total Cost	Qty	Total Cost
				(Total cost in thousands of dollars)		
				FY 1996		FY 1997
SE010 Service Change Kits	A		800	2,832		1,225
SE026 M-29 Arresting Gear	A		0	1,354		0
SE800 Integrated Logistic Supp	N/A		125	283		201
SE830 Production Engineering	N/A		300	309		134
SE860 Acceptance Test & Eval	N/A		1,258	0		0
TOTAL			2,483	4,778		1,560
		P-1 SHOPPING LIST		Page No.:		Exhibit P-5 Weapon System Cost Analysis
		Item No. # 131		2		UNCLASSIFIED

UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET					DATE	March 1996
A. APPROPRIATION / BUDGET ACTIVITY OPN-3 Aviation Support Equipment		B. P-1 ITEM NOMENCLATURE A/C Rearming Equipment						
FISCAL YEARS		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (in millions)		8.7	7.3	9.3	10.4	13.2	13	13.2
Program Description This program funds the procurement of common Armament Support Equipment (ASE) and common Weapons Support Equipment (WSE) under the procurement and inventory control of the NAVAL ICP (Aviation Supply Office (ASO) Philadelphia, and Ships Parts Control Center (SPCC), Mechanicsburg) and the Naval Air Systems Command. This budget line supports: (a) initial outfitting for all in-production weapons systems; (b) new support equipment (SE); and (c) elimination of the severe shortage of Armament Weapon Support Equipment (AWSE). These shortages prevent support of sustained operations and surge deployment of our CV battle groups. Shipboard/Shorebased WSE is utilized by weapons departments to handle, transport, and maintain weapons. Examples of this equipment are the A/S32K-1D USMC Weapons Loader, Linkless Ammunition Loading System, (LALS II), Common Detent Tester, A/E32K-3 RAMS, MHU-202/M Munitions Trailer, and the LALS Replenisher. Shipboard/Shorebased ASE is utilized by squadrons and supporting activities to load and service aircraft weapons and guns.								

Exhibit P-40

Page No.

1

P-1 Shopping List

Item No. 132

UNCLASSIFIED		WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)					D. Date		March 199
A. Appropriation/Budget Activity		B. P-1 Item Nomenclature							
OPN-3 Aviation Support Equipment		A/C Rearming Equipment							
Element of Cost	IDENT CODE	FY 1995		FY 1996		FY 1997		(Total cost in thousands of dollars)	
		Qty	Total Cost	Qty	Total Cost	Qty	Total Cost	Qty	Total Cost
SH004 - Shipboard/Shorebased WSE									
A/S32K-1D WEAPONS LOADER	A	18	1,429						
COMMON DETENT TESTER	A	58	192						
A/E32K-3 RAMS	A	12	763						
MHU-202/M MUNITIONS TRAILER	A	81	547						
LALS REPLENISHER	A	36	994						
K4A/13B MUNITION TRAILER	A	0	1,425						
LALS II	A	2	829	29	5,416	45	7,470		
Sub Total			6,041		5,416		7,470		
SH830 - Production Engineering			2,129		1,563		1,601		
SH860 - Accept Test and Evaluation			481		304		250		
Grand Total			8,651		7,283		9,321		
		P-1 Shopping List Item No. 132		Page No. 2		Exhibit P-5 Weapon System Cost Analysis			

UNCLASSIFIED

BUDGET HISTORY PLANNING

A. Date March 1996

B. Appropriation / Budget Activity

OPN-3 Aviation Support Equipment

C. P-1 Item Nomenclature
A/C Rearing Equipment

LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION City, State	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST (\$K)	Specs Avail now/ When?	SPEC REV REQD?	IF YES WHEN AVAIL?
A/S32K-1D WPNS LOADER FY 1995	DEVAL CORP Philadelphia, PA	FP/Option	NAWC AD LKE NJ	1/23/95	7/1/96	18	79.4	YES	NO	
COMMON DET TESTER FY 1995	DNR MACHINE Philadelphia, PA	FP/Option	NAWC AD LKE NJ	5/16/95	2/1/96	58	3.3	YES	NO	
A/E32K-3 RAMS FY 1995	D&D MACHINE San Antonio, TX	MIPR/AF	KELLY AFB TX	6/19/95	3/29/96	12	63.6	YES	NO	
MHU-202/M MUNIT TRAIL FY 1995	VERVAL ENTERPRISES Ft Walton Beach, FL	FP/Option	NAWC AD LKE NJ	3/2/95	4/1/96	81	6.7	YES	NO	
LALS REPLENISHER FY 1995	WESTERN DESIGN CORP Irvine, CA	FP/Option	NAWC PT MUGU	8/1/95	9/1/96	35	27.6	YES	NO	
LALS II FY 1995	WESTERN DESIGN CORP	FP/Option	NAWC PT MUGU	12/23/95	9/1/96	2	414.5	YES	NO	
FY 1996	WESTERN DESIGN CORP	FP/Option	NAWC PT MUGU	12/23/95	9/1/96	29	186.8	YES	NO	
FY 1997	WESTERN DESIGN CORP Irvine, CA	FP/Option	NAWC PT MUGU	12/1/96	9/1/97	45	166.0	YES	NO	

REMARKS:

P-1 Shopping List
Item No. 132Page No.
3

Exhibit P-5A Procurement History and Planning

6J

REQUIREMENTS STUDY NOT INSTALLED NONCONSUMABLES

A. Date March 1996

Appropriation/Budget Activity				P-1 Item Nomenclature					
OPN-3 Aviation Support Equipment				A/C Rearming Equipment					
Item	Total IO Reqmt	Quantity On Hand And Not In Use	Qty In Use	Quantity Due in Q/FY 95 & Prior Funds	Qty Due In W/FY 96 Prog Fund	Planned Bdgt YR Procm FY 97	Balance	Phasing Rationale	
1. A/S32K-1D WEAPONS LOADER	417	0	133	284	0	0	0		
2. COMMON DETENT TESTER	129	0	0	129	0	0	0		
3. A/E32K-3 RAMS	14	0	0	14	0	0	0		
4. MHU-202/M MUNITIONS TRAILER	704	0	0	414	0	0	290	FUNDING CONSTRAINTS	
5. LALS REPLENISHER	107	0	0	35	0	0	71	FUNDING CONSTRAINTS	
6. LALS II	270	0	0	5	29	45	191	FUNDING CONSTRAINTS	
MEMO ENTRIES									
ITEM# 1	ITEM# 2	ITEM# 3		ITEM# 4		ITEM# 5			
MARINES	CV/CVN	24	MARINES	10	NAVY SHORE	704			
MPS/RDF	MARINES	36	MPS/RDF	3	TOTAL	704			
	MPS/RDF	8	NAVY SHORE	1					
TOTAL	NAVY SHORE	61	TOTAL	14					
	TOTAL	129							
ITEM# 5	ITEM# 6	ITEM #		ITEM#					
CV/CVN	CV/CVN	108							
MARINES	MARINES	57							
MPS/RDF	MPS/RDF	33							
NAVY SHORE	NAVY SHOF	72							
TOTAL	TOTAL	270							

UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET					(DOD EXHIBIT P-40)		Date	
Appropriation/Budget Activity		OTHER PROCUREMENT, NAVY					P-1# 133		MARCH 1996	
3 AVIATION SUPPORT EQUIPMENT - AIRCRAFT SUPPORT EQUIPMENT		: P-1 Item Nomenclature					P-1# 133			
		AIRCRAFT LAUNCH & RECOVERY EQUIPMENT (ALRE) (Formerly Catapults and Arresting Gear)								
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001		
QUANTITY										
COST (IN MILLIONS):		\$35.0	\$15.4	\$29.0	\$29.1	\$39.3	\$43.4	\$37.9		
This program, formerly Catapults/Arresting Gear/VLA supt. (CATS/AG), provides for procurement of major aircraft launch, recovery, and visual landing aids equipment as well as ancillary items required for installation in aircraft carriers, air capable ships, amphibious ships, and shore stations. Most procurements respond to: (1) urgent fleet problems associated with the operation and maintenance of existing equipment, (2) expanding responsibilities in support of helicopter operations on air capable ships and (3) the demand for increased launch and recovery equipment reliability and capacity. Shipboard-installed items procured under this program are for operational fleet carriers, air-capable, and amphibious ships. Major equipment and service changes procured in support of the Fleet Modernization Program (FMP) are generally installed by shipyard personnel during routine or restricted availabilities or regular overhauls. Non-FMP installations include minor equipments and service changes that are installed by Alteration Installation Teams (AIT) or Voyage Repair Teams (VRT) from the Naval Aviation Depots (NADEPS) under the direction of the Type Commanders and the Naval Air Warfare Center, Aircraft Division, Lakehurst, NJ. Type Commanders determine shorebased installed item requirements. The FY 1995 program consists of service change procurements, including safety and reliability service changes for CVN Catapults and Arresting Gears, commercial Optical Landing Aids, and Visual Landing Aids for CV/JACS; PE; ILS and FMP/NFMP installations for FY 1995 and prior years' procurements, including V/STOLS OLS. The FY 1996 program consists of service change procurements, Catapult, CV, Arresting Gear, CV, Helicopter Landing Systems (ACS), Visual Landing Aids, CV, Marking and Lighting, Catapult Support Equipment, CV, ILARTS, CV, and Visual Landing Aids, ACS; PE; ILS, and FMP/NFMP installations for FY 1996 and prior years' procurements. The FY 1997 budget request consists of service change procurements, Catapult, CV (Improved G-13-2 MOD Piston and Low Loss Launch Valve), Arresting Gear, CV, Helicopter Landing Systems (HLS), ACS, Visual Landing Aids (CV/JACS), Marking and Lighting, Catapult Support Equipment, CV, ILARTS, CV, and Visual Landing Aids, CV, PE; ILS; P-25 Fire Truck and FMP/NFMP installations for FY 1997 and prior years' procurements.										
									UNCLASSIFIED	

Appropriation/Budget Activity		OTHER PROCUREMENT, NAVY		: P-1 Item Nomenclature # 133		: SUBHEAD No.	
3 AVIATION SUPPORT EQUIPMENT - AIRCRAFT SUPPORT EQUIPMENT		: AIRCRAFT LAUNCH & RECOVERY EQUIPMENT		: 43SJ		: 43SJ	
Element of Cost		: (Formerly Catapults and Arresting Gear)					
: Ident :		: (Total cost in thousands of dollars)		: FY 1997		: FY 1997	
: Cos :		: FY 1996		: Qty		: Qty	
: : Qty : Total Cost		: Qty : Total Cost		: Qty : Total Cost		: Qty : Total Cost	
SJ040	SERVICE CHANGE KITS						
	Catapults, CV	8,478	1,710		6,036		
	Arresting Gear, (E-28), Shore	(1,988)	(923)		(5,636)		
	Arresting Gear, CV	0	0		0		
	Helicopter Landing Sys. (HLS), ACS	(524)	(18)		0		
	Visual Landing Aids, CV	(660)	0		(400)		
	Marking and Lighting	(950)	(10)		0		
	Wind Measuring Inst. Sys. (WMIS)	(696)	0		0		
	Catapult Support Equipment, CV	(292)	0		0		
	Integrated Launch & Recovery	(2,349)	0		0		
	Television Sys. (ILARTS), CV	(814)	(427)		0		
	Visual Landing Aids (VLA), ACS	(205)	(332)		0		
SJ050	MINOR EQUIPMENT UNDER \$100K	195	0		0		
TBD	AS32P-25 FIRE TRUCK	0	0	56	8,219		
SJ800	INTEGRATED LOGISTICS SUPPORT	1,162	713		563		
SJ830	PRODUCTION ENGINEERING	2,248	1,810		1,907		
SJ860	ACCEPTANCE TEST & EVAL	20	4		94		
SJ900	INSTALLATION - NFMP	14,379	8,110		8,281		
SJ910	INSTALLATION - FMP	8,533	3,050		3,875		
TOTAL		35,015	15,397		28,975		

P-1 Shopping List
Item No. # 133

Page No.
2

Exhibit P-5 Weapon System Cost Analysis
UNCLASSIFIED

UNCLASSIFIED		WEAPONS SYSTEM PROCUREMENT HISTORY AND PLANNING				(DOD EXHIBIT P-5A)		Date		MARCH 1996	
Appropriation/Budget Activity		OTHER PROCUREMENT, NAVY				P1 NO. # 133		SUBHEAD No.		43SJ	
3 AVIATION SUPPORT EQUIPMENT - AIRCRAFT SUPPORT EQUIPMENT		AIRCRAFT LAUNCH & RECOVERY EQUIPMENT				(Formerly Catapults and Arresting Gear)					
LINE ITEM/FISCAL YEAR	CONTRACTOR / LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST (\$K)	SPEC AVAIL : NOW WHEN?	ARE SPEC REVISION REQUIRED	IF YES WHEN AVAIL	
TBD AS/32P-25 FY 1997	The Entwistle Company Hudson, MA	Option to EMD * Contract (CPI w/ successive targets)	NAWC AD LKE	11/96	10/97	56	146.8	NO - 7/96	N/A	N/A	
REMARKS:											
*Engineering & Manufacturing Development											
P-1 Shopping List		Item No. : # 133		Page No. : 3		Exhibit P-5A Procurement History and Planning		UNCLASSIFIED			

MODIFICATION INSTALLATION SUMMARY

(TOA, Dollars in Millions)

Date: MARCH 1996

AIRCRAFT LAUNCH & RECOVERY EQUIPMENT (Formerly Catapults and Arresting Gear)

System/Modification	FY-95	FY-96	FY-97	FY-98	FY-99	FY-00	FY-01	TOTAL
SERVICE CHANGES								
CV/CVN	16.7	7.6	7.8	4.2	9.6	9.1	8.5	63.5
Air Capable Ships (ACS)	4.8	1.9	3.6	3.2	3.6	2.5	2.6	22.2
Shore	0.6	0.1	0.0	0.1	0.1	0.1	0.2	1.2
LRLS(CV/CVN) 1/	0.0	0.0	0.0	0.2	1.1	0.5	0.0	1.8
LRLS(Shore) 1/	0.0	0.0	0.0	0.0	0.6	0.7	0.7	2.0
ISIS/ADMACS 1/	0.0	0.0	0.0	0.0	1.2	1.2	3.0	5.4
IFLOLS(CV/CVN) 1/	0.0	0.0	0.0	0.0	0.6	1.2	1.5	3.3
IFLOLS(Shore) 1/	0.0	0.0	0.0	0.0	0.0	0.6	0.7	1.3
V/STOL OLS	0.8	1.6	0.8	0.0	0.0	0.0	0.0	3.2
Total for SERVICE CHANGES, V/STOL OLS, LRLS, ISIS/ADMACS, IFLOLS	22.9	11.2	12.2	7.7	16.8	15.9	17.2	103.9

1/ P-3a exhibits for FY-98 and beyond new starts are not included in this submission.

AIRCRAFT LAUNCH & RECOVERY EQUIPMENT (Formerly Catapults and Arresting Gear)

Date MARCH 1996

MODIFICATION TITLE AND NO: Service Changes

MODELS OF SYSTEMS AFFECTED: CV/CVNs

DESCRIPTION/JUSTIFICATION: Service changes respond to (1) urgent fleet problems associated with the operation and maintenance of existing equipment, and (2) the demand for increased launch and recovery equipment reliability and capacity.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Various

FINANCIAL PLAN: (\$ in Million)	FY95/ PRIOR		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		COST TO COMPLETE		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&N																		
PROCUREMENT																		
Kit Quantity	*	24.7	*	1.3	*	5.2	*	10.4	*	1.8	*	5.4	*	5.2	*	17.7	*	71.7
Installation Kits																		
Installation Kit Nonrecurring																		
Equipment																		
Equipment Nonrecurring																		
Engineering Change Orders																		
Data																		
Training Equipment																		
Support Equipment																		
Other																		
Interim Contractor Support																		
Installation of Hardware																		
FY-95/Prior	*	50.1	*	7.6	*	6.8	*	1.6	*	4.2	*	3.5	*	5.6	*	2.6	*	82.0
FY-96					AP	1.0	*	0.5	*	1.1	*	0.4	*	0.4	*		*	3.0
FY-97							AP	2.1	*	0.8	*	1.3	*	1.2	*	0.4	*	7.3
FY-98									AP		*	0.6	*	0.6	*	1.5	*	3.0
FY-99											*	1.0	*	0.6	*	1.5	*	3.2
FY-00											*	2.3	*	0.7	*	1.7	*	4.7
FY-01											*		*		*	0.8	*	0.8
To Complete Equipment	*	50.1	*	7.6	*	7.8	*	4.2	*	9.6	*	9.1	*	8.5	*	7.2	*	104.1
Total Installation Cost		74.8		8.9		13.0		14.6		11.4		14.5		13.7		24.9		175.9
Total Procurement Cost																		

METHOD OF IMPLEMENTATION: Open Competition

ADMINISTRATIVE LEAD TIME: Various

PRODUCTION LEAD TIME: Various

CONTRACT DATES:

FY 95: Various

FY 97: Various

DELIVERY DATE:

FY 96: Various

FY 97: Various

INSTALLATION SCHEDULE:

FY-95/PRIOR

FY-96

FY-97

FY-98

FY-99

FY-00

FY-01

TOTAL

INPUT

OUTPUT

Various

Various

Various

Various

Various

Various

Various

FOOTNOTES:

- * Reflects numerous service changes of varying types on various Aircraft Launch and Recovery Equipment.
- AP Advance Planning.

AIRCRAFT LAUNCH & RECOVERY EQUIPMENT (Formerly Catapults and Arresting Gear)

Date MARCH 1986

MODIFICATION TITLE AND NO: Service Changes

MODELS OF SYSTEMS AFFECTED: Shore Facilities

DESCRIPTION/JUSTIFICATION: Service changes respond to (1) urgent fleet problems associated with the operation and maintenance of existing equipment and (2) the demand for increased launch and recovery equipment reliability and capacity.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Various

FINANCIAL PLAN: (\$ in Million)		FY95/ PRIOR		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		COST TO COMPLETE		TOTAL	
Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
* 2.3	*	* 0.1	*	* 0.4	*	* 0.7	*	* 0.2	*	* 0.7	*	* 0.5	*	* 2.0	*	*	*	*	6.9
RD&E																			
PROCUREMENT																			
Kit Quantity																			
Installation Kits																			
Installation Kit Nonrecurring																			
Equipment																			
Equipment Nonrecurring																			
Engineering Change Orders																			
Data																			
Training Equipment																			
Support Equipment																			
Other																			
Interim Contractor Support																			
Installation of Hardware																			
FY-95/PRIOR																			
FY-96																			
FY-97																			
FY-98																			
FY-99																			
FY-00																			
FY-01																			
To Complete Equipment																			
Total Installation Cost																			
Total Procurement Cost																			

METHOD OF IMPLEMENTATION: Open Competition

CONTRACT DATES:

DELIVERY DATE:

FY 95: Various
FY 96: Various
FY 97: Various
FY 98: Various
FY 99: Various
FY 00: Various
FY 01: Various

PRODUCTION LEAD TIME: Various

ADMINISTRATIVE LEAD TIME: Various

INSTALLATION SCHEDULE:

INPUT
OUTPUT

FY-95/PRIOR		FY-96		FY-97		FY-98		FY-99		FY-00		FY-01		TOTAL	
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various
Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various

FOOTNOTES:

- * Reflects numerous service changes of varying types on various Aircraft Launch and Recovery Equipment.
- AP Advance Planning.
- @ Less than \$50,000.00.

MODIFICATION TITLE AND NO: Vertical /Short Take Off and Landing Optical Landing System (VISTOL OLS)

DESCRIPTION/JUSTIFICATION: OPTICAL LANDING AID FOR AMPHIBIOUS ASSAULT SHIPS TO PROVIDE DAY/NIGHT ALL WEATHER VISTOL LANDING CAPABILITY.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FULL SCALE DEVELOPMENT / TESTING TO COMPLETED 2/94. IN PRODUCTION

FINANCIAL PLAN: (\$ in Million)

	FY95/ PRIOR	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	COST TO COMPLETE	TOTAL
	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty
RD TEN									
PROCUREMENT									
Kit Quantity	9	7.4							9
Installation Kits									7.4
Installation Kit Nonrecurring									0.0
Logistic Support	2.4								2.4
Equipment									
Equipment Nonrecurring									
Engineering Change Orders									
Data									
Training Equipment	5	4.1							5
Support Equipment		0.6							0.6
Other									
Interim Contractor Support									0.0
Installation of Hardware **									
FY-95/PRIOR (14 Kits)	0	0.8	4	0.8					14
FY-96		10	1.6						3.2
FY-97									0.0
FY-98									0.0
FY-99									0.0
FY-00									0.0
FY-01									0.0
To Complete Equipment	0	0.8	4	0.8		0.0	0.0	0.0	14
Total Installation Cost		15.3		0.8		0.0	0.0	0.0	3.2
Total Procurement Cost									17.7

METHOD OF IMPLEMENTATION:

VOYAGE REPAIR TEAM

ADMINISTRATIVE LEAD TIME:

1 MONTH

PRODUCTION LEAD TIME:

18 MONTHS

CONTRACT DATES:

FY-96: N/A

FY-97: N/A

DELIVERY DATE:

FY-96: N/A

FY-97: N/A

INSTALLATION SCHEDULE:

INPUT

OUTPUT

	FY-95/PRIOR	FY-96	FY-97	FY-98	FY-99	FY-00	FY-01	TO COMPLETE	TOTAL
	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	
INPUT	1 3 3 3	3 1							14
OUTPUT	1 3 3 3	2 2							14

FOOTNOTES:

2

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BUDGET ITEM JUSTIFICATION SHEET						DATE	March 1996
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					
OPN BA3 - AVIATION SUPPORT EQUIPMENT		METEOROLOGICAL EQUIPMENT					53SP
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000
QUANTITY							
COST (in millions)		\$20.9	\$19.6	\$17.0	\$19.7	\$25.3	\$24.8
PROGRAM COVERAGE/JUSTIFICATION FOR BUDGET YEAR REQUIREMENTS:							
This item provides new and replacement meteorological equipment for all Navy/Marine Corps Air Stations and all Navy ships and other activities required to take weather observations and provide safety of flight information. The procurement has been thoroughly coordinated with the other DOD and civilian agencies. Equipment is funded under the following programs: The Mini-Rawin System (MRS) is a portable commercial off-the-shelf upper air sounding system used to measure pressure, temperature, humidity and wind speed and direction from the surface to the lower stratosphere. \$.8 million in FY-96 (60 units) and \$.9 million in FY-97 (68 units) will support upgrade of existing units to enable use of the Global Positioning System (GPS). The Next Generation Radar (NEXRAD) Remote Includes all the hardware and software required for the request, display, local storage and local annotation and distribution of weather/storm data from National Weather Service, Federal Aviation Administration and Air Force weather radars. The Navy is buying remote user processors, not complete radars. \$1.5 million (5 systems) in FY-95 were budgeted for NEXRAD. The Automated Surface Observing System (ASOS) is an automatic system to sense, collect, display and disseminate real time meteorological information at both Navy and Marine Corps Air stations and remote sites such as weapon ranges and port facilities. \$3.8 million (19 systems) in FY-95 and \$3.4 million (16 systems) in FY-96 is budgeted for ASOS. The Tactical Environmental Support Systems (TESS) Upgrade - Procure terminals, input/output control devices, CPUs and back planes to replace original equipment for block upgrades and P31. \$2.9 million in FY-95, \$ 8.2 million in FY-96 and \$ 7.1 million in FY-97 will support the TESS evolutionary acquisition Upgrade. TESS software is required to be upgraded to X-Windows with a C2 Secure Operating System as required for cutover of connectivity to DON/DISNET. Associated hardware upgrades that are required include CPU cards, RAM memory, clock, BUS, disk storage and disk controllers. TESS Upgrades planned for FY95-97 include Fleet Numerical Meteorology and Oceanography Center (FNMOC) and Naval Oceanographic Office (NAVO) and the five regional centers at Guam, Pearl Harbor, Norfolk, Suislaw and Rota Spain, and at afloat and ashore sites.							
							\$25.1

Exhibit P-40
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BUDGET ITEM JUSTIFICATION SHEET
(CONTINUATION)

BUDGET ITEM JUSTIFICATION SHEET (CONTINUATION)				DATE	March 1996		
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					
OPN BA3 - AVIATION SUPPORT EQUIPMENT		METEOROLOGICAL EQUIPMENT		53SP			
The Navy Integrated Tactical Environmental Subsystem (NITES) provides tactical environmental support to non-TESS(3) ships and ashore command and control and other facilities as inputs to mission planning systems and tactical decision aids by establishing remote workstations. NITES merges with the TESS Upgrade in FY-96. Shipboard Meteorological and Oceanographic Observing System (SMOOS) P31 Sensor Upgrades \$ 2 million in FY-96 and \$ 3 million in FY-97. Fleet Marine Force Meteorological Equipment - Meteorological/Sensors Equipment are required to outfit Mobile Facilities (MF) Marine Corps Meteorological Support. Miscellaneous Meteorological Equipment - General Purpose Met Equipment covers unscheduled purchase of items such as: laser recorders, facsimile recorders, runway temperature instruments, special tape recorders, power supplies, printed circuit module, etc. The Supplemental Weather Radar (SWR) is a state-of-the-art, small, light weight doppler radar system that will be located at sites where NEXRAD coverage is not available to Navy/USMC activities. The SWR will provide real-time surveillance and advance warning of potentially severe weather phenomena that are developing near or moving towards USN and USMC units. \$980K is budgeted in FY-96 and \$2.5 million in FY-97 for SWR. Training Support - Necessary to train the initial cadre of instructional personnel with the end item. Installation of Equipment - Installation efforts include plans, site surveys, BESEPS, equipment installation and checkout.							
Listed below are the costs (i.e. hardware and installation) for equipment being procured in this line item that have associated installation costs budgeted:							
MODIFICATION SUMMARY (\$M)							
EQUIPMENT	EY95	EY96	EY97	EY98	EY99	EY00	EY01
MRS UPGRADE		1.0	1.0				
ASOS	4.2	3.9	0.3				
TESS UPGRADES	3.6	10.5	9.9	9.6	12.7	9.4	8.4
NITES	9.1						
SMOOS P31		0.2	0.3	2.7	4.5	2.6	2.4
SUPPLEMENTAL WEATHER RADAR		1.0	2.6				
MRS/GPS						2.4	4.2
AN/SMQ-11	0.2			1.6	2.2	5.3	5.5
AN/SMQ-11 UPGRADES							
Total	17.1	16.6	14.1	13.9	19.4	19.7	20.5

P-1 SHOPPING LIST

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Exhibit P-40

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WEAPON SYSTEM COST ANALYSIS									
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE				
OP. N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT					METEOROLOGICAL EQUIPMENT				
					53SP				
TOTAL COST IN THOUSANDS OF DOLLARS									
COST CODE	ELEMENT OF COST	IDENT CODE	FY 95		FY 96		FY 97		TOTAL COST
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	
SP115	MIRS UPGRADES	A			60	800	68	925	
SP120	NEXRAD	A	5	1,469					
SP130	ASOS	A	19	3,762	16	3,376			
SP190	TESS UPGRADES	A	VAR	2,933	VAR	8,154	VAR	7,070	
SP195	NITES	A	101	7,106					
SP200	SMOOS P3I		VAR		VAR	240	VAR	300	
SP300	MET EQUIPMENT	N/A	VAR	2,299	VAR	2,567	VAR	2,578	
SP400	GP EQUIP	N/A	VAR	152	VAR	189	VAR	132	
SP500	SUPPLEMENTAL WEATHER RADAR	N/A	VAR	223	2	980	7	2,527	
SP666	TRAINING SUPPORT	N/A	VAR		VAR	250	VAR	230	
SP776	INSTALL SHORE	N/A	VAR	1,773	VAR	1,916	VAR	1,949	
SP777	INSTALL SHIP	N/A	VAR	1,435	VAR	1,127	VAR	1,337	
TOTAL PROGRAM				21,152	19,599		17,048		

DD FORM 2446, JUN 86

P-1 SHOPPING LIST
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Exhibit P-5
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WEAPON SYSTEM PROCUREMENT HISTORY AND PLANNING											
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE						
OPN BA3 - AVIATION SUPPORT EQUIPMENT					METEOROLOGICAL EQUIPMENT						
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	SPECS REV REQUIRED	IF YES, WHEN AVAILABLE
SP115	MRS UPGRADES FY-96 FY-97	VAISALA, MA VAISALA, MA	SS/FFP SS/FFP/OP	SPAWAR SPAWAR	Mar-96 Oct-96	Jun-96 Jan-97	60 68	\$13,333 \$13,603	Yes Yes	No No	
SP120	NEXRAD FY-95	UNISYS, NY	C/FFP/OP	NATWEASERV	Jan-95	Jan-96	5	\$293,800	Yes	No	
SP130	ASOS FY-95 FY-96	AAI, MD AAI, MD	C/FFP/OP C/FFP/OP	NATWEASERV NATWEASERV	Jan-95 Nov-95	Aug-95 Aug-96	19 16	\$198,000 \$211,000	Yes	No	
SP195	NITES FY-95	VARIOUS	C/CPFF/OP	SPAWAR/ NUSC/NISE WEST	Jan-95	Apr-95	101	\$70,350*	N/A	No	
SP500	WEATHER RADAR FY-96 FY-97	TBD TBD	C/FFP C/FFP/OP	SPAWAR SPAWAR	Mar-96 Oct-96	Jun-96 Dec-96	2 7	\$490,000 \$361,000	No No	No No	
D. REMARKS											
*UNIT PRICE IS BASED ON SITE UNIQUE REQUIREMENTS											

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INSTALLATION SUMMARY (TOA, Dollars in Thousands)

March 19
96

P-1 LINE ITEM NAME: METEOROLOGICAL EQUIPMENT
SUBHEAD: 53SP
P-1 LINE ITEM NUMBER: 146

PROGRAM:

<u>System/Modification</u>	FY-95	FY-96	FY-97	FY-98	FY-99	FY-00	FY-01
MRS UPGRADES		100					
SHIP		100	75				
SHORE							
ASOS	417	496	310				
TESS UPGRADE	282	1,027	1,337	2,177	2,655	1,639	997
SHIP	365	1,300	1,494	568	471	253	678
SHORE							
NITES	1,153						
SHIP	805						
SHORE							
SMOOS P3I				300	550	450	400
SUPPLEMENTAL WEATHER RADAR		20	70				
SHORE							
MRS/GPS						180	305
SHIP							
SHORE							
AN/SMQ-11	186						
SHORE							
AN-SMQ-11 UPGRADES					200	1,115	2,240
SHIP					770	857	216
SHORE				630	2,477	3,384	3,637
SHIP SUBTOTAL	1,435	1,127	1,337	2,477	3,405	3,384	3,637
SHORE SUBTOTAL	1,773	1,916	1,949	1,198	1,241	1,110	1,199
TOTAL	3,208	3,043	3,286	3,675	4,646	4,494	4,836

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P-3N Exhibit
UNCLASSIFIED

25

March 1996

53SP MINI-RAWIN SYSTEM UPGRADES (SHIP)

THE MRS IS A PORTABLE COMMERCIAL OFF-THE-SHELF UPPER AIR SOUNDING SYSTEM USED TO MEASURE PRESSURE, TEMPERATURE, HUMIDITY AND WIND SPEED AND DIRECTION FROM THE SURFACE TO THE LOWER STRATOSPHERE. THE UPGRADES WILL ENABLE USE OF THE GLOBAL POSITIONING SYSTEM

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
FINANCIAL PLAN: (\$ in millions)

FY	FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		IC		Total	
	City	\$	City	\$	City	\$	City	\$	City	\$	City	\$	City	\$	City	\$	City	\$
			28	0.4													28	0.4
			28	0.1													28	0.1
			28	0.1													28	0.1
			28	0.5													28	0.5
AIT	ADMINISTRATIVE LEADTIME: 3 MONTHS PROCUREMENT LEADTIME: 3 MONTHS																	

FY 1995:	FY 1996:	Mar-96	FY 1997:
----------	----------	--------	----------

	FY 1995:	FY 1996:	Jun-96	FY 1997:
1. Administrative	100	100	100	100
2. Programs	100	100	100	100
3. Capital	100	100	100	100
4. Debt	100	100	100	100
5. Other	100	100	100	100

[illegible]

14	14
14	14

	FY 92				FY 93				FY 94				FY 95				FY 96				FY 97				FY 98				FY 99				FY 00				FY 01				FY 02				FY 03				FY 04				FY 05				FY 06				FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13				FY 14				FY 15				FY 16				FY 17				FY 18				FY 19				FY 20				FY 21				FY 22				FY 23				FY 24				FY 25				FY 26				FY 27				FY 28				FY 29				FY 30				FY 31				FY 32				FY 33				FY 34				FY 35				FY 36				FY 37				FY 38				FY 39				FY 40				FY 41				FY 42				FY 43				FY 44				FY 45				FY 46				FY 47				FY 48				FY 49				FY 50				FY 51				FY 52				FY 53				FY 54				FY 55				FY 56				FY 57				FY 58				FY 59				FY 60				FY 61				FY 62				FY 63				FY 64				FY 65				FY 66				FY 67				FY 68				FY 69				FY 70				FY 71				FY 72				FY 73				FY 74				FY 75				FY 76				FY 77				FY 78				FY 79				FY 80				FY 81				FY 82				FY 83				FY 84				FY 85				FY 86				FY 87				FY 88				FY 89				FY 90				FY 91				FY 92				FY 93				FY 94				FY 95				FY 96				FY 97				FY 98				FY 99				FY 00				FY 01				FY 02				FY 03				FY 04				FY 05				FY 06				FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13				FY 14				FY 15				FY 16				FY 17				FY 18				FY 19				FY 20				FY 21				FY 22				FY 23				FY 24				FY 25				FY 26				FY 27				FY 28				FY 29				FY 30				FY 31				FY 32				FY 33				FY 34				FY 35				FY 36				FY 37				FY 38				FY 39				FY 40				FY 41				FY 42				FY 43				FY 44				FY 45				FY 46				FY 47				FY 48				FY 49				FY 50				FY 51				FY 52				FY 53				FY 54				FY 55				FY 56				FY 57				FY 58				FY 59				FY 60				FY 61				FY 62				FY 63				FY 64				FY 65				FY 66				FY 67				FY 68				FY 69				FY 70				FY 71				FY 72				FY 73				FY 74				FY 75				FY 76				FY 77				FY 78				FY 79				FY 80				FY 81				FY 82				FY 83				FY 84				FY 85				FY 86				FY 87				FY 88				FY 89				FY 90				FY 91				FY 92				FY 93				FY 94				FY 95				FY 96				FY 97				FY 98				FY 99				FY 00				FY 01				FY 02				FY 03				FY 04				FY 05				FY 06				FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13				FY 14				FY 15				FY 16				FY 17				FY 18				FY 19				FY 20				FY 21				FY 22				FY 23				FY 24				FY 25				FY 26				FY 27				FY 28				FY 29				FY 30				FY 31				FY 32				FY 33				FY 34				FY 35				FY 36				FY 37				FY 38				FY 39				FY 40				FY 41				FY 42				FY 43				FY 44				FY 45				FY 46				FY 47				FY 48				FY 49				FY 50				FY 51				FY 52				FY 53				FY 54				FY 55				FY 56				FY 57				FY 58				FY 59				FY 60				FY 61				FY 62				FY 63				FY 64				FY 65				FY 66				FY 67				FY 68				FY 69				FY 70				FY 71				FY 72				FY 73				FY 74				FY 75				FY 76				FY 77				FY 78				FY 79				FY 80				FY 81				FY 82				FY 83				FY 84				FY 85				FY 86				FY 87				FY 88				FY 89				FY 90				FY 91				FY 92				FY 93				FY 94				FY 95				FY 96				FY 97				FY 98				FY 99				FY 00				FY 01				FY 02				FY 03				FY 04				FY 05</			
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28 28

Exhibit P-3A
UNCLASSIFIED

UNCLASSIFIED

March 1996

MODIFICATION TITLE:
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION:

63SP MINI-RAWIN SYSTEM UPGRADES (SHORE)

THE MRS IS A PORTABLE COMMERCIAL OFF-THE-SHELF UPPER AIR SOUNDING SYSTEM USED TO MEASURE PRESSURE, TEMPERATURE, HUMIDITY AND WIND SPEED AND DIRECTION FROM THE SURFACE TO THE LOWER STRATOSPHERE. THE UPGRADES WILL ENABLE USE OF THE GLOBAL POSITIONING SYSTEM.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
FINANCIAL PLAN: (\$ in millions)

RT&E	PY	QTY	FY 95	QTY	FY 96	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	IC	QTY	Total	QTY
PROCUREMENT:																				
Kil Quantity																				
Installation Kits																				
Installation Kits Nonsecuring																				
Equipment Nonsecuring																			47	0.7
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
PRIOR YR EQUIP																				
FY 95 EQUIP																				
FY 96 EQUIP																			27	0.1
FY 97 EQUIP																			20	0.08
FY 98 EQUIP																				
FY 99 EQUIP																				
FY 00 EQUIP																				
FY 01 EQUIP																				
FY TC EQUIP																				
TOTAL INSTALLATION COST																			47	0.18
TOTAL PROCUREMENT COST																			47	0.88
METHOD OF IMPLEMENTATION:																				

CONTRACT DATES:

FY 1995:

FY 1996:

Mar-96

Oct-96

DELIVERY DATES:

FY 1995:

FY 1996:

Jun-96

Jan-97

INSTALLATION SCHEDULE:

INPUT
OUTPUT

INSTALLATION SCHEDULE:

INPUT
OUTPUT

*63 UNITS ARE FOR MOBILE TEAMS AND REQUIRE NO INSTALLATION.

ITEM NO: 134 PAGE NO: 7

Exhibit P-3A
UNCLASSIFIED

UNCLASSIFIED

MODIFICATION TITLE:
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION:

63SP/SP130 AUTOMATED SURFACE OBSERVING SYSTEM (ASOS) (ASHORE)

ASOS IS AN AUTOMATIC SYSTEM TO SENSE, COLLECT, DISPLAY AND DISSEMINATE REAL TIME METEOROLOGICAL INFORMATION AT BOTH NAVY AND MARINE CORPS AIR STATIONS AND REMOTE SITES SUCH AS WEAPON RANGES AND ORT FACILITIES

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
FINANCIAL PLAN: (\$ in millions)

RD&E PROCUREMENT:	FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		FY 10		FY 11		FY 12		FY 13		FY 14		FY 15		FY 16		FY 17		FY 18		FY 19		FY 20		FY 21		FY 22		FY 23		FY 24		FY 25		FY 26		FY 27		FY 28		FY 29		FY 30		FY 31		FY 32		FY 33		FY 34		FY 35		FY 36		FY 37		FY 38		FY 39		FY 40		FY 41		FY 42		FY 43		FY 44		FY 45		FY 46		FY 47		FY 48		FY 49		FY 50		FY 51		FY 52		FY 53		FY 54		FY 55		FY 56		FY 57		FY 58		FY 59		FY 60		FY 61		FY 62		FY 63		FY 64		FY 65		FY 66		FY 67		FY 68		FY 69		FY 70		FY 71		FY 72		FY 73		FY 74		FY 75		FY 76		FY 77		FY 78		FY 79		FY 80		FY 81		FY 82		FY 83		FY 84		FY 85		FY 86		FY 87		FY 88		FY 89		FY 90		FY 91		FY 92		FY 93		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		FY 10		FY 11		FY 12		FY 13		FY 14		FY 15		FY 16		FY 17		FY 18		FY 19		FY 20		FY 21		FY 22		FY 23		FY 24		FY 25		FY 26		FY 27		FY 28		FY 29		FY 30		FY 31		FY 32		FY 33		FY 34		FY 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UNCLASSIFIED

March 1996

MODIFICATION TITLE:
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION:

53SP/SP190 TACTICAL ENVIRONMENTAL SUPPORT SYSTEMS (TESS) UPGRADE (SHIP)/NITES (SHIP)

TESS UPGRADE PROCURES TERMINALS, INPUT/OUT CONTROL DEVICES, CPUs AND BACK PLANES TO REPLACE ORIGINAL EQUIPMENT FOR
BLOCK UPGRADES. TESS SOFTWARE UPGRADES ALSO REQUIRED.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
FINANCIAL PLAN: (\$ in millions)

FY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		FY 10		FY 11		FY 12		FY 13		FY 14		FY 15		FY 16		FY 17		FY 18		FY 19		FY 20		FY 21		FY 22		FY 23		FY 24		FY 25		FY 26		FY 27		FY 28		FY 29		FY 30		FY 31		FY 32		FY 33		FY 34		FY 35		FY 36		FY 37		FY 38		FY 39		FY 40		FY 41		FY 42		FY 43		FY 44		FY 45		FY 46		FY 47		FY 48		FY 49		FY 50		FY 51		FY 52		FY 53		FY 54		FY 55		FY 56		FY 57		FY 58		FY 59		FY 60		FY 61		FY 62		FY 63		FY 64		FY 65		FY 66		FY 67		FY 68		FY 69		FY 70		FY 71		FY 72		FY 73		FY 74		FY 75		FY 76		FY 77		FY 78		FY 79		FY 80		FY 81		FY 82		FY 83		FY 84		FY 85		FY 86		FY 87		FY 88		FY 89		FY 90		FY 91		FY 92		FY 93		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		FY 10		FY 11		FY 12		FY 13		FY 14		FY 15		FY 16		FY 17		FY 18		FY 19		FY 20		FY 21		FY 22		FY 23		FY 24		FY 25		FY 26		FY 27		FY 28		FY 29		FY 30		FY 31		FY 32		FY 33		FY 34		FY 35		FY 36		FY 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UNCLASSIFIED

March 1996

MODIFICATION TITLE:
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION:

53SP/SPI 90 TACTICAL ENVIRONMENTAL SUPPORT SYSTEMS (TESS) UPGRADE (SHORE)/NIIES (SHORE)
TESS UPGRADE PROCURES TERMINALS, INPUT/OUTPUT CONTROL DEVICES, CPUs AND BACK PLANES TO REPLACE ORIGINAL EQUIPMENT FOR
BLOCK UPGRADES. TESS SOFTWARE UPGRADES ARE ALSO REQUIRED.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
FINANCIAL PLAN: (\$ in millions)

RD&E	PY	QTY	\$	EY 95	QTY	\$	EY 96	QTY	\$	EY 97	QTY	\$	EY 98	QTY	\$	EY 99	QTY	\$	EY 00	QTY	\$	EY 01	QTY	\$	IC	QTY	\$	Total	QTY	\$
PROCUREMENT:																														
Kit Quantity																														
Installation Kits																														
Equipment																														
Equipment Nonrecurring																														
Engineering Change Orders																														
Data																														
Training Equipment																														
Support Equipment																														
Other																														
Interim Contractor Support																														
Installation of Hardware *																														
PRIOR YR EQUIP																														
FY 95 EQUIP	34	0.4		34	0.4		66	1.3		75	1.5		57	0.6		49	0.5		32	0.3		67	0.7		0	0		34	0.4	
FY 96 EQUIP	34	0.4		34	0.4		66	1.3		75	1.5		57	0.6		49	0.5		32	0.3		67	0.7		0	0		34	0.4	
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TOTAL INSTALLATION COST	34	0.4		34	0.4		66	1.3		75	1.5		57	0.6		49	0.5		32	0.3		67	0.7		0	0		414	57	
TOTAL PROCUREMENT COST	VAR	1.6		VAR	1.8		VAR	5.2		VAR	6.1		VAR	2.9		VAR	4.5		VAR	3.9		VAR	4.2		0	0		VAR	29.2	
METHOD OF IMPLEMENTATION:																														

CONTRACT DATES:

DELIVERY DATES:

INSTALLATION SCHEDULE:

INPUT
OUTPUT

INSTALLATION SCHEDULE:

INPUT
OUTPUT

* Quantities reflect shore sites.

ITEM NO: 134 PAGE NO: 10

Exhibit P-3A
UNCLASSIFIED

UNCLASSIFIED

March 1996

MODIFICATION TITLE:
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION:

53SP/SP195 NAVY INTEGRATED TACTICAL ENVIRONMENTAL SUBSYSTEM (NITES) (SHIP)

NITES PROVIDES TACTICAL ENVIRONMENTAL SUPPORT TO NON-TESS(3) SHIPS AND ASHORE COMMAND AND CONTROL AND OTHER FACILITIES
AS INPUT TO MISSION PLANNING SYSTEMS AND TACTICAL DECISION AIDS BY ESTABLISHING REMOTE WORKSTATIONS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
FINANCIAL PLAN: (\$ in millions)

ROTI&E	FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		FY 10		FY 11		FY 12		FY 13		FY 14		FY 15		FY 16		FY 17		FY 18		FY 19		FY 20		FY 21		FY 22		FY 23		FY 24		FY 25		FY 26		FY 27		FY 28		FY 29		FY 30		FY 31		FY 32		FY 33		FY 34		FY 35		FY 36		FY 37		FY 38		FY 39		FY 40		FY 41		FY 42		FY 43		FY 44		FY 45		FY 46		FY 47		FY 48		FY 49		FY 50		FY 51		FY 52		FY 53		FY 54		FY 55		FY 56		FY 57		FY 58		FY 59		FY 60		FY 61		FY 62		FY 63		FY 64		FY 65		FY 66		FY 67		FY 68		FY 69		FY 70		FY 71		FY 72		FY 73		FY 74		FY 75		FY 76		FY 77		FY 78		FY 79		FY 80		FY 81		FY 82		FY 83		FY 84		FY 85		FY 86		FY 87		FY 88		FY 89		FY 90		FY 91		FY 92		FY 93		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		FY 10		FY 11		FY 12		FY 13		FY 14		FY 15		FY 16		FY 17		FY 18		FY 19		FY 20		FY 21		FY 22		FY 23		FY 24		FY 25		FY 26		FY 27		FY 28		FY 29		FY 30		FY 31		FY 32		FY 33		FY 34		FY 35		FY 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UNCLASSIFIED

March 1996

MODIFICATION TITLE:
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION:

53SP/SP195 NAVY INTEGRATED TACTICAL ENVIRONMENTAL SUBSYSTEM (NITES) (SHORE)

NITES PROVIDES TACTICAL ENVIRONMENTAL SUPPORT TO NON-TESS(3) SHIPS AND ASHORE COMMAND AND CONTROL AND OTHER FACILITIES AS INPUTS TO MISSION PLANNING SYSTEMS AND TACTICAL DECISION AIDS BY ESTABLISHING REMOTE WORKSTATIONS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
FINANCIAL PLAN: (\$ in millions)

RD/TE	FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		FY 10		FY 11		FY 12		FY 13		FY 14		FY 15		FY 16		FY 17		FY 18		FY 19		FY 20		FY 21		FY 22		FY 23		FY 24		FY 25		FY 26		FY 27		FY 28		FY 29		FY 30		FY 31		FY 32		FY 33		FY 34		FY 35		FY 36		FY 37		FY 38		FY 39		FY 40		FY 41		FY 42		FY 43		FY 44		FY 45		FY 46		FY 47		FY 48		FY 49		FY 50		FY 51		FY 52		FY 53		FY 54		FY 55		FY 56		FY 57		FY 58		FY 59		FY 60		FY 61		FY 62		FY 63		FY 64		FY 65		FY 66		FY 67		FY 68		FY 69		FY 70		FY 71		FY 72		FY 73		FY 74		FY 75		FY 76		FY 77		FY 78		FY 79		FY 80		FY 81		FY 82		FY 83		FY 84		FY 85		FY 86		FY 87		FY 88		FY 89		FY 90		FY 91		FY 92		FY 93		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		FY 10		FY 11		FY 12		FY 13		FY 14		FY 15		FY 16		FY 17		FY 18		FY 19		FY 20		FY 21		FY 22		FY 23		FY 24		FY 25		FY 26		FY 27		FY 28		FY 29		FY 30		FY 31		FY 32		FY 33		FY 34		FY 35		FY 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65		FY 66		FY 67		FY 68		FY 69		FY 70		FY 71		FY 72		FY 73		FY 74		FY 75		FY 76		FY 77		FY 78		FY 79		FY 80		FY 81		FY 82		FY 83		FY 84		FY 85		FY 86		FY 87		FY 88		FY 89		FY 90		FY 91		FY 92		FY 93		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		FY 10		FY 11		FY 12		FY 13		FY 14		FY 15		FY 16		FY 17		FY 18		FY 19		FY 20		FY 21		FY 22		FY 23		FY 24		FY 25		FY 26		FY 27		FY 28		FY 29		FY 30		FY 31		FY 32		FY 33		FY 34		FY 35		FY 36		FY 37		FY 38		FY 39		FY 40		FY 41		FY 42		FY 43		FY 44		FY 45		FY 46		FY 47		FY 48		FY 49		FY 50		FY 51		FY 52		FY 53		FY 54		FY 55		FY 56		FY 57		FY 58		FY 59		FY 60		FY 61		FY 62		FY 63		FY 64		FY 65		FY 66		FY 67		FY 68		FY 69		FY 70		FY 71		FY 72		FY 73		FY 74		FY 75		FY 76		FY 77		FY 78		FY 79		FY 80		FY 81		FY 82		FY 83		FY 84		FY 85		FY 86		FY 87		FY 88		FY 89		FY 90		FY 91		FY 92		FY 93		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		FY 10		FY 11		FY 12		FY 13		FY 14		FY 15		FY 16		FY 17		FY 18		FY 19		FY 20		FY 21		FY 22		FY 23		FY 24		FY 25		FY 26		FY 27		FY 28		FY 29		FY 30		FY 31		FY 32		FY 33		FY 34		FY 35		FY 36		FY 37		FY 38		FY 39		FY 40		FY 41		FY 42		FY 43		FY 44		FY 45		FY 46		FY 47		FY 48		FY 49		FY 50		FY 51		FY 52		FY 53		FY 54		FY 55		FY 56		FY 57		FY 58		FY 59		FY 60		FY 61		FY 62		FY 63		FY 64		FY 65		FY 66		FY 67		FY 68		FY 69		FY 70		FY 71		FY 72		FY 73		FY 74		FY 75		FY 76		FY 77		FY 78		FY 79		FY 80		FY 81		FY 82		FY 83		FY 84		FY 85		FY 86		FY 87		FY 88		FY 89		FY 90		FY 91		FY 92		FY 93		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		FY 10		FY 11		FY 12		FY 13		FY 14		FY 15		FY 16		FY 17		FY 18		FY 19		FY 20		FY 21		FY 22		FY 23		FY 24		FY 25		FY 26		FY 27		FY 28		FY 29		FY 30		FY 31		FY 32		FY 33		FY 34		FY 35		FY 36		FY 37		FY 38		FY 39		FY 40		FY 41		FY 42		FY 43		FY 44		FY 45		FY 46		FY 47		FY 48		FY 49		FY 50		FY 51		FY 52		FY 53		FY 54		FY 55		FY 56		FY 57		FY 58		FY 59		FY 60		FY 61		FY 62		FY 63		FY 64		FY 65		FY 66		FY 67		FY 68		FY 69		FY 70		FY 71		FY 72		FY 73		FY 74		FY 75		FY 76		FY 77		FY 78		FY 79		FY 80		FY 81		FY 82		FY 83		FY 84		FY 85		FY 86		FY 87		FY 88		FY 89		FY 90		FY 91		FY 92		FY 93		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		FY 10		FY 11		FY 12		FY 13		FY 14		FY 15		FY 16		FY 17		FY 18		FY 19		FY 20		FY 21		FY 22		FY 23		FY 24		FY 25		FY 26		FY 27		FY 28		FY 29		FY 30		FY 31		FY 32		FY 33		FY 34		FY 35		FY 36		FY 37		FY 38		FY 39		FY 40		FY 41		FY 42		FY 43		FY 44		FY 45		FY 46		FY 47		FY 48		FY 49		FY 50		FY 51		FY 52		FY 53		FY 54		FY 55		FY 56		FY 57		FY 58		FY 59		FY 60		FY 61		FY 62		FY 63		FY 64		FY 65		FY 66		FY 67		FY 68		FY 69		FY 70		FY 71		FY 72		FY 73		FY 74		FY 75		FY 76		FY 77		FY 78		FY 79		FY 80		FY 81		FY 82		FY 83		FY 84		FY 85		FY 86		FY 87		FY 88		FY 89		FY 90		FY 91		FY 92		FY 93		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		FY 10		FY 11		FY 12		FY 13		FY 14		FY 15		FY 16		FY 17		FY 18		FY 19		FY 20		FY 21		FY 22		FY 23		FY 24		FY 25	
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MODIFICATION TITLE:
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION:

533P SUPPLEMENTAL WEATHER RADAR (SWR) (SHORE)

THE SWR WILL PROVIDE REAL-TIME SURVEILLANCE AND ADVANCE WARNING OF POTENTIALLY SEVERE WEATHER PHENOMENA DEVELOPING NEAR OF MOVING TOWARDS USN AND USMC UNITS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
FINANCIAL PLAN: (\$ in millions)

RD&E	QTY	\$	EY 95	QTY	\$	EY 96	QTY	\$	EY 97	QTY	\$	EY 98	QTY	\$	EY 99	QTY	\$	EY 00	QTY	\$	EY 01	QTY	\$	IC	QTY	\$	Total	QTY	\$
PROCUREMENT:																													
Kit Quantity																													
Installation Kits																													
Equipment																													
Equipment Nonrecurring																													
Engineering Change Orders																													
Data																													
Training Equipment																													
Support Equipment																													
Other																													
Interim Contractor Support																													
Installation of Hardware																													
PRIOR YR EQUIP																													
FY 95 EQUIP																													
FY 96 EQUIP																													
FY 97 EQUIP																													
FY 98 EQUIP																													
FY 99 EQUIP																													
FY 00 EQUIP																													
FY 01 EQUIP																													
FY 1C EQUIP																													
TOTAL INSTALLATION COST																													
TOTAL PROCUREMENT COST																													
METHOD OF IMPLEMENTATION:																													
CONTRACT DATES:																													
DELIVERY DATES:																													
INSTALLATION SCHEDULE:																													
INPUT																													
OUTPUT																													
INSTALLATION SCHEDULE:																													
INPUT																													
OUTPUT																													
TOTAL																													

March 1996

MODIFICATION TITLE:
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION:

THE SMQ-11 RECEIVER/RECORDER RECEIVES OTHER DOD AND NATIONAL HIGH RESOLUTION SATELLITE DATA. THE DATA FROM THIS EQUIPMENT IMPROVES AIRCRAFT AND SHIP SAFETY AND IS A FORCE MULTIPLIER FOR WEAPON SYSTEMS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
FINANCIAL PLAN: (\$ in millions)

[illegible]

FY 1997:

FY 1997:

py	EY 95	EY 96	EY 97	EY 98
1	2	3	4	1
				2
				3
				4

1

	EY 92	EY 00	EY 01	TOTAL				
1	2	3	4	1	2	3	4	

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UNCLASSIFIED
CLASSIFICATION

REQUIREMENTS STUDY - NOT INSTALLED NONCONSUMABLES										A. DATE March 1996			
B. APPROPRIATION/BUDGET ACTIVITY OPN BA3 - AVIATION SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE METEOROLOGICAL EQUIPMENT						53SP			
ITEM	TOTAL I/O REQUIREMENT	QUANTITY ON HAND & NOT IN USE	QUANTITY IN USE	QUANTITY DUE IN WITH FY 95 AND PRIOR FUNDS	PLANNED BUDGET YEAR (FY96) PROCUREMENT	PLANNED BUDGET YEAR (FY97) PROCUREMENT	BALANCE	PHASING RATIONALE					
SP115 MRS UPGRADES	128					60		Complete					
SP120 NEXRAD	44	0	41	3				Complete					
SP130 ASOS	85	6	59	4	16			Complete					
SP195 NITES	204		204					Complete					
SP500 WEATHER RADAR	9				2	7		Complete					
MEMO ENTERED													
ITEM #1	SP115	MRS UPGRADES	SP120	NEXRAD	ITEM #2	SP130	ASOS	ITEM #3	SP195	NITES	ITEM #4	SP500	WEATHER RADAR
hull/location	qty	hull/location	hull/location	hull/location	hull/location	hull/location	hull/location	hull/location	hull/location	hull/location	hull/location	hull/location	hull/location
SHIP	28		44		NAS/NAVSTA	85		NAS/NAVSTA	85				
SHORE	47												
MOBILE TEAMS	53												
CV/CVN, LHA,													
LHD, LPH, AGF,													
LCC													
TOTAL I/O	128					44					85		
ITEM #4	SP195	NITES	SP500	WEATHER RADAR	ITEM #5	SP130	ASOS	ITEM #6	SP195	NITES	ITEM #7	SP500	WEATHER RADAR
hull/location	qty	hull/location	hull/location	hull/location	hull/location	hull/location	hull/location	hull/location	hull/location	hull/location	hull/location	hull/location	hull/location
SHIP	168		9		SHORE								
SHORE	36												
AD, AOE, ARS,													
CV/CVN, LHA,													
LHD, LPH, AGF,													
LCC, AO, PC													
AS, CG/CGN,													
DD/DDG, FFG													
TOTAL I/O	204					9					0		

Exhibit P-23B

P-1 SHOPPING LIST
ITEM NO. 134 PAGE NO. 17

UNCLASSIFIED
CLASSIFICATION

DD FORM 2447-1, JUN 86

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NAVMAT 7110.1		OTHER PROCUREMENT, NAVY					(DOD EXHIBIT P-40)		DATE
BUDGET ACTIVITY 3- AVIATION SUPPORT		BUDGET ITEM JUSTIFICATION SHEET							Mar-96
EQUIPMENT - A/C SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE							SUBHEAD
		OTHER PHOTOGRAPHIC EQUIPMENT							Y3SX
QUANTITY		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	
COST (in millions)		0.8	0.7	0.7	0.8	1.0	1.0	1.0	

The Naval Air Systems Command is tasked to fund transition of CV photographic labs from traditional film technology to digital imaging technology, CNO Memo Ser 09B/2U2501983 of 23 Oct 92 applies. The CV main photographic lab supports the full visual imaging program afloat to include: Carrier Intelligence Center (CVIC) support (Bomb Damage Assessment (BDA) and target imagery), incidents and accidents at sea, medical media, copy and reproduction, investigation, aerial and surface surveillance, combat camera, safety, training and Public Affairs Office (PAO).

Electronic/digital imagery acquisition media is rapidly expanding (ATARS, TAMPS, JSIPS). It is imperative the CV photo lab be able to interface with the new electronic media. Hard copy imagery is required in the documentation of real world events (drug interdiction program, humanitarian relief efforts, shipboard and flight operational documentation). This imagery is used at all levels within DoD including CNO SECNAV, JCS, National Military Command Center and the White House. Hard copy photographs are used in the decision making process by the Fleet and Battle Group Commanders and directly impacts the overall Navy mission.

Digital technology will generate less environmentally damaging effluents, and have no impact on shipboard water consumption currently use in traditional photographic processes. Electronic imaging is less manpower intensive and requires less maintenance and overall support resources than traditional mechanical hardware.

In order to fully utilize the film technology employed on CV's, a two phase transition plan will be implemented. An interim photo lab will be installed to interface with existing film technology which will allow the CV to maintain 100% mission capability until final digital installation. Installations of the interim systems have begun in FY 94, to completed in FY 95. LANT AND PAC deployment schedules and pier-side availability determine the installation schedule. Complete digital capability will commence in late FY 95/early FY 96, to be completed in FY 01.

Digital Photo Lab Phase I includes one hard-mounted electronic work station, one portable backup computer, one high capacity digital printer, three digital hand-held cameras, and the software to run these equipments. Digital Photo Lab Phase II adds two more hard-mounted electronic work stations, one more portable backup computer, another high capacity digital printer, a LAN server to tie them together, and some miscellaneous small equipments/software required to tie Phase I and Phase II labs together. Phase I equipments were funded in FY 95 and prior, Phase II will be funded in FY 95 through FY 01.

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APPROPRIATION		WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)						DATE
OTHER PROCUREMENT, NAVY								Mar-96
BUDGET ACTIVITY 3 - AVIATION SUPPORT		P-1 NOMENCLATURE						SUBHEAD
EQUIPMENT - A/C SUPPORT EQUIPMENT		OTHER PHOTOGRAPHIC EQUIPMENT						Y3SX
		(TOTAL COST IN THOUSANDS OF DOLLARS)						
COST CODE	ELEMENT OF COST	IDENT CODE	FY 1995		FY 1996		FY 1997	
			QTY	TTL COST	QTY	TTL COST	QTY	TTL COST
SX008	PHOTO EQUIPMENT UNDER \$100K	A		0		137		138
SX019	HIGH CAPACITY DIGITAL COLOR PRINTER	A		0	2	132	2	136
SX020	ELECTRONIC WORKSTATIONS	A		0	4	136	4	140
SX830	PRODUCTION ENGINEERING & LOGISTICS SUPPORT	A		488		49		61
SX900	INSTALLATION (NON-FMP)	A		337		259		262
	TOTAL			805		713		737

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BUDGET PROCUREMENT HISTORY & PLANNING EXHIBIT (P-5A)										DATE	
APPROPRIATION OTHER PROCUREMENT, NAVY BUDGET ACTIVITY - 3 AVIATION SUPPORT EQUIPMENT - A/C SUPPORT EQUIPMENT										Mar-96	
P-1 ITEM NOMENCLATURE OTHER PHOTOGRAPHIC EQUIPMENT										SUBHEAD Y3SX	
COST CODE	ELEMENT OF COST	CONTRACTOR/ LOCATION CITY, STATE	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQ'D?	IF YES, WHEN AVAIL
SX019	HIGH CAPACITY COLOR PRINTER	XEROX, McLean, VA TBD	C/MIPR/FP C/MIPR/FP	TASA Sacramento Army Depot TASA Sacramento Army Depot	Jun 96 Jun 97	Sep 96 Sep 97	2 2	66,000 68,000	YES	NO	N/A
	FY 1996								YES	NO	N/A
SX020	ELECTRONIC WORKSTATION	TBD TBD	C/MIPR/FP C/MIPR/FP	TASA Sacramento Army Depot TASA Sacramento Army Depot	Jun-96 Jun-97	Oct 96 Oct 97	4 4	34,000 35,000	YES	NO	N/A
	FY 1996								YES	NO	N/A
	FY 1997										
REMARKS											

P-1 SHOPP LIST
ITEM NO. 135

INDIVIDUAL MODIFICATIONS (P-3A)

MODIFICATION TITLE: Digital Photo Lab (Phase I & II)
 MODELS OF SYSTEMS AFFECTED: CVs, CVNs, CNET, PNCLA
 DESCRIPTION JUSTIFICATION: Tasked to fund transition CV/CVN Photo Lab from traditional film to imagery. CNO memo Ser 098/2U2501983 of 23 Oct 92 applies. Phase I initiates a transition from "wet" photographic processes to digital imaging process. Phase II enhances the digital capability and replaces, to the maximum extent possible, certain aspects of the "wet" color processes within the limits of current technology. Digital Photo Lab Phase I includes one hard-mounted electronic work station, one portable backup computer, one high capacity digital printer, three digital hand-held cameras, and the software to run these equipments. Digital Photo Lab Phase II adds two more hard-mounted electronic work stations, one more portable backup computer, another high capacity digital printer, a LAN server to tie them together, and some miscellaneous small equipment/software required to tie Phase I and II labs together. Phase I equipment was funded in FY 95 and prior. Phase II will be funded in FY 95 through FY 01.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONE: N/A
 FINANCIAL PLAN: (\$ in Millions)

	FY 95 & PRIOR		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		TO COMPLETIO		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
RDT&E																		
PROCUREMENT																		
Kit Quantity																		
Installation Kits	9	3.5	2	0.4	2	0.4	2	0.5	2	0.7	1	0.8	2	0.6			20	6.9
Installation Kit Nonrecurring																		
Equipment																		
Equipment Charge Orders																		
Data																		
Training Equipment																		
Support Equipment																		
Total Procurement Cost		3.5		0.4		0.4		0.5		0.7		0.8		0.6				6.9
Interim Contractor Support																		
Installation of Hardware																		
FY 94 Eqpt	0	0															0	
FY 95 Eqpt (Phase I)	8	0.2															8	0.2
(Phase II)	1	0.1															1	0.1
FY 96 Eqpt (Phase II)			2	0.3													2	0.3
FY 97 Eqpt (Phase II)					2	0.3											2	0.3
FY 98 Eqpt (Phase II)							2	0.3									2	0.3
FY 99 Eqpt (Phase II)									2	0.3							2	0.3
FY 00 Eqpt (Phase II)											1	0.1					1	0.1
FY 01 Eqpt (Phase II)													2	0.3			2	0.3
Total Installation Cost	9	0.3	2	0.3	2	0.3	2	0.3	2	0.3	1	0.1	2	0.3			20	1.9
Total Cost		3.8		0.7		0.7		0.8		1.0		0.9		0.9				8.8

METHOD OF IMPLEMENTATION: At Install Team ADMINISTRATIVE LEADTIME: 2 MONTHS PRODUCTION LEADTIME: 1 MONTH

CONTRACT DATES: FY 1996: Jun-96 FY 1997: Jun-97

DELIVERY DATE: FY 1996: Sep-96 FY 1997: Sep-97

INDIVIDUAL MODIFICATIONS (P-3A cont.)

INSTALLATION SCHEDULE	FY 95				FY 96				FY 97				FY 98				FY 99				FY 00				FY 01				TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
INPUT																													
FY 1995	3	3	3																										9
FY 1996																													2
FY 1997																													2
FY 1998																													2
FY 1999																													2
FY 2000																													1
FY 2001																													2
TOTAL																													20
OUTPUT																													
FY 1995	3	3	3																										9
FY 1996																													2
FY 1997																													2
FY 1998																													2
FY 1999																													2
FY 2000																													1
FY 2001																													2
TOTAL																													20

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REQUIREMENTS STUDY - NOT-INSTALLED NONCONSUMABLES (P-23B)

REQUIREMENTS STUDY - NOT-INSTALLED NONCONSUMABLES (P-23B)										DATE Mar-96
APPROPRIATION OTHER PROCUREMENT, NAVY		BUDGET ACTIVITY - 3 AVIATION SUPPORT EQUIPMENT - A/C SUPPORT EQUIPMENT				P-1 NOMENCLATURE OTHER PHOTOGRAPHIC EQUIPMENT			SUBHEAD Y3SX	
COST CODE NO.	COST CODE TITLE	TOTAL I.O./ REQUIREMENT	QTY ON HAND AND NOT IN USE	QTY IN USE	QTY DUE-IN W/ FY 1995 & PRIOR FUNDS	QTY DUE-IN W/ FY 1996 PROG FUNDS	BUDGET YEAR PROCUREMENT FY 1997	BAL	PHASING RATIONALE	
SX019	HIGH CAPACITY COLOR PRINTER	39	0	14	0	2	2	21	OUTYEAR FUNDING	
SX020	ELECTRONIC WORKSTATION	39	0	14	0	4	4	17	OUTYEAR FUNDING	
							0	0		
							0	0		
MEMO ENTRIES										
ITEM #1: SX019		ITEM #2: SX020		ITEM #3: SX021		ITEM #4: SX032		ITEM #5:		
CV-61	CV-62 CV-63	CV-61 CV-62 CV-63								
CV-64	CV-67 CV-68	CV-64 CV-67 CVN-68								
CV-65	CVN-69 CVN-70	CV-65 CVN-69 CVN-70								
CV-71	CVN-72 CVN-73	CV-71 CVN-72 CVN-73								
CV'S	12 @ 3 36	CV'S 12 @ 3 36								
CNET PNCLA	1 @ 3 3	CNET PNCLA 1 @ 3 3								
TOTAL	39	TOTAL 39				TOTAL				
ITEM #6:		ITEM #7:		ITEM #8:		ITEM #9:		ITEM #10:		

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OTHER PROCUREMENT, NAVY BUDGET ITEM JUSTIFICATION SHEET						(DOD EXHIBIT P-40)	MARCH 1996
3 - AVIATION SUPPORT EQUIPMENT						AVIATION LIFE SUPPORT SYSTEMS	
NAV MAT FORM 7110.1	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY							
COST (in millions)	\$ 12.1	\$ 17.2	\$ 13.8	\$ 16.0	\$ 27.8	\$ 26.5	\$ 29.4
This account provides for the acquisition, upgrade and production support of aviation life support systems required for the personal safety and protection of aircrew against the hazards encountered in the aircraft operating environment and for safe recovery of downed aircrew. PRC-112 AIRCREW SURVIVAL RADIO - SY040 - Navy (NAVSEA/NAVAIR)/US Army program with Army as procuring service. The AN/PRC-112 radio provides beacon/voice communication and acts as a transponder supplying ranging and identification information. Combined with the Downed Aircrew Locating System, accurately determines an aircrewmans location in range and bearing. AFP granted second quarter FY 1989. Inventory Objective (IO) is 4,000. PRC-112 P3I (GPS) - SY045 - Survival system upgrade to provide rapid, line-of-sight, two-way Global Positioning System (GPS) data communication capability between a survivor using a modified AN/PRC-112 Radio Set (Aircrew Survival Radio). OSD INTEREST PROGRAM. IO is 4,000. PRC-112 P3I (GPS) INTERROGATOR - SY046 - Portable Interrogator Equipment to send, receive and decipher data burst information from the AN/PRC-112 P3I (GPS) Radio. IO is 48. CHEMICAL-BIOLOGICAL (CB) PROTECTION UPGRADE FOR HELO AIRCREWS (CB HELO UPGRADE) - SY050 - CB personal protective equipment provides Head-Eye Respiratory (HER) protection for Marine helo and TACAIR aircrew rapid deployment forces. Support, maintenance and training equipment has been provided. System upgrades are required to correct design deficiencies and replace components due to age life limitations. IO is 3,190.							

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OTHER PROCUREMENT, NAVY BUDGET ITEM JUSTIFICATION SHEET		(DOD EXHIBIT P-40)	MARCH 1996
NAVJAT FORM 7110.1			
BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE AVIATION LIFE SUPPORT SYSTEMS		
3 - AVIATION SUPPORT EQUIPMENT			
<u>LASER EYE PROTECTION - SY080</u> - Laser Eye Protection which is both day and night capable and compatible with new TACAIR and helicopter helmets to protect against existing and projected laser threat. IO is 7,800.			
<u>CWU - 60/P - SY100</u> - An exposure suit for Carrier On-Board Delivery/Vertical On-Board Delivery(COD/VOD) aircrewman. IO is 4,350.			
<u>HELICOPTER EMERGENCY EGRESS DEVICE P31 (HEED P31) - SY110</u> - An improved and smaller device than the current HEED. Will provide improved performance and compatibility with other aircrew life support and personal protective equipment and increased maintainability and reliability. IO is 5,300.			
<u>AIRCREW INTEGRATED SURVIVAL/ARMOR PROTECTION (AISAP) - SY120</u> - An optimized vest/armor system which integrates life preserver, life capabilities for all combat helicopter aircrews. IO is 3,568.			
<u>PASSENGER AND TROOP SURVIVAL SYSTEM (PATSS) - SY130</u> - A system developed to provide personal flotation that is activated and compatible with other protective, survival and combat equipment. IO is 8,652.			
<u>PASSENGER ANTI-EXPOSURE SURVIVAL SYSTEM (PAESS) - SY140</u> - Provides an easily donned reusable anti-exposure system which will prolong survival time in cold water and increase chances of a successful rescue at sea for passengers. IO is 2,100.			

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OTHER PROCUREMENT, NAVY BUDGET ITEM JUSTIFICATION SHEET		(DOD EXHIBIT P-40)	DATE
P-1 ITEM NOMENCLATURE			
3 - AVIATION SUPPORT EQUIPMENT		AVIATION LIFE SUPPORT SYSTEMS	
<u>EXTREME COLD WEATHER SURVIVAL KITS - SY145</u> - The kit supplements the items in the survival vest and the life rafts in case of mishap over land in extreme cold weather. IO is 147.			
<u>MINI-RAFT BACK PACK - SY150</u> - Constant wear emergency floatation platform for helicopter aircrewman. IO is 5,900.			
<u>REVERSE OSMOSIS DESALINATOR - SY160</u> - Emergency water supply for down aircrewman stowed on board multi-place life rafts. It creates fresh water from salt water. IO is 2,300.			
<u>NAVY COMBAT EDGE - SY170</u> - This is a Congressional interest program. An integrated aircrew flight ensemble which provides significant G protection by an extended coverage lower anti-G garment used with regulated positive pressure breathing balanced by an upper torso counterpressure vest. This system is an adaptation to the USAF Combat Edge system to make it compatible with USN/USMC aircraft and aircrews. IO is 1,821.			
<u>AMELIA - SY175</u> - This is a Congressional interest program. An integrated aircrew flight ensemble which provides small and large aviators, including females, with new and/or upgraded systems to ensure safe and effective performance in Naval aircraft. IO is 1,200.			

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APPROPRIATION		WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										DATE MARCH 1996	
OTHER PROCUREMENT, NAVY												SUBHEAD 43SY	
BUDGET ACTIVITY 3		P-1 ITEM NOMENCLATURE											
AIRCRAFT SUPPORT EQUIPMENT		AVIATION LIFE SUPPORT											
COST CODE	ELEMENT OF CODE	IDNT CDE	FY 1995		FY 1996		FY 1997						
			QTY	TTL COST	QTY	TTL COST	QTY	TTL COST	QTY	TTL COST			
SY040	PRC-112 Aircrew Survival Radio			0	324	1,796		0					
SY045	PRC-112 P3I (GPS)		500	3,505	1,000	5,000	1,212	2,424					
SY046	PRC-112 P3I (GPS) Interrogator				12	636	15	795					
SY050	CB Helo Upgrade		965	2,766		0		0					
SY080	Laser Eye Protection			0		0	500	500					
SY100	CWU-60/P			0	794	556	2,009	1,004					
SY110	HEED P3I			0	2,650	1,060	2,650	1,060					
SY120	AISAP (Body Armor)		850	1,053	1,000	1,220	1,234	1,491					
SY130	PATSS			0	1,687	506	2,551	638					
SY140	PAESS		450	303	1,000	750	650	553					
SY145	Extreme Cold Weather Survival Kit			0	147	412		0					
SY150	Mini-Raft Backpack			0	400	272	660	363					
SY160	Reverse Osmosis Desalinator		2,300	2,700		0		0					
SY170	Navy Combat Edge			0	300	990	658	2,007					
SY175	AMELIA			0	300	240	300	240					
SY830	Production Support Services			1,761		3,743		2,736					
TOTALS				12,088		17,181		13,811					
NAVMAT FORM 7110/8 (8-76)			P-1 LINE NO. 136		PAGE NO. 4		UNCLASSIFIED CLASSIFICATION						

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APPROPRIATION		BUDGET PROCUREMENT HISTORY & PLANNING EXHIBIT (P-5A)										DATE	
OTHER PROCUREMENT, NAVY		P-1 ITEM NOMENCLATURE										SUB-HEAD NO.	
BUDGET ACTIVITY		AVIATION LIFE SUPPORT SYSTEMS										43SY	
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQUIRED?	IF YES, WHEN AVAILABLE		
SY040	AN/PRC-112 Survival Radio FY-1994 FY-1996	Motorola Motorola Scottsdale, AZ	SS SS	US ARMY US ARMY	09/94 06/96	09/95 06/97	134 324	\$4,900 \$5,543	YES	NO	NO		
SY045	PRC-112 P31 (GPS) FY 1995 FY 1996 FY 1997	Motorola, Scottsdale, AZ TBD TBD	SS COMP/FFP FFP/Option	USAF LA AFB NAWC/INDY NAWC/INDY	08/95 04/96 12/96	07/96 10/96 06/97	500 1000 1,212	\$7,010 \$5,000 \$2,000	YES NO, Mar 96	N/A N/A N/A	N/A N/A N/A		
SY046	PRC-112 P31 (GPS) Interrogator FY 1996 FY 1997	TBD TBD	COMP/FFP FFP/Option	NAWC/INDY NAWC/INDY	04/96 12/96	10/96 06/97	12 15	\$53,000 \$53,000	NO, Mar 96	N/A N/A	N/A N/A		
SY050	CB HELO Upgrade FY-1995	Meggit Oxygen Systems Harlow Essex, England	FFP/Option	NAVAR	05/95	05/96	965	\$2,705	N/A	NO	N/A		
SY080	Laser Eye Protection FY 1997		COMP/FFP	NICP PHIL.	03/97	09/97	500	\$1,000	NO, Sep 96	NO	N/A		
SY100	CWU-60/P FY-1996 FY-1997	TBD	COMP/FFP FFP/Option	NICP PHIL. NICP PHIL.	08/96 01/97	04/97 09/97	794 2,009	\$ 700 \$ 500	YES	NO	N/A		
SY110	HEED P31 FY-1996 FY-1997	TBD	COMP/FFP FFP/Option	NICP PHIL. NICP PHIL.	05/96 01/97	03/97 11/97	2,650 2,650	\$ 400 \$ 400	NO, May 96	NO	N/A		

REMARKS:

- Multi-service procurement, additional quantities from other services were involved.
- Contract option years, only the firm fixed price unit cost is shown. Provisioned line items and technical data are not included.

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BUDGET PROCUREMENT HISTORY & PLANNING EXHIBIT (P-5A)													DATE	
P-1 ITEM NOMENCLATURE													MARCH 1996	
AVIATION LIFE SUPPORT SYSTEMS													SUBHEAD NO.	
AVIATION LIFE SUPPORT SYSTEMS													43SY	
COST CODE	ELEMENT OF COST	CONTRACTOR/ LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQUIRED?	IF YES WHEN AVAILABLE			
SY120	AISAP (Airmail) FY-1995 FY-1996 FY-1997	GSA TBD TBD	FFP COMP/FFP FFP/Option	GSA DPSC DPSC	07/95 08/96 01/97	10/95 04/97 09/97	850	\$1,239	YES	NO	N/A			
							1,000	\$1,220						
							1,234	\$1,208						
SY130	PATSS FY 1996 FY 1997	TBD TBD	COMP/FFP FFP/Option	NICP PHIL. NICP PHIL.	08/96 02/97	06/97 12/97	1,687	\$ 300	YES	NO	N/A			
							2,551	\$ 250						
SY140	PAESS FY 1995 FY 1996 FY 1997	ASO TBD TBD	FFP COMP/FFP COMP/FFP	NAWC WAR NICP PHIL. NICP PHIL.	08/95 03/96 02/97	12/95 09/96 02/98	450	\$ 673	YES	NO	N/A			
							1,000	\$ 750						
							650	\$ 850						
SY145	Ex. Cold Weather Survival Kit FY-1996	TBD	COMP/FFP	NAWC WAR	08/96	01/97	147	\$2,802	YES	NO	N/A			
SY150	Mini-Raft Backpack FY-1996 FY-1997	TBD TBD	COMP/FFP OPTION	NICP PHIL. NICP PHIL.	08/96 01/97	06/97 10/97	400 660	\$ 680 \$ 550	YES	NO	N/A			
SY160	Reverse Osmosis Desalinator FY-1995	TBD	COMP/FFP	USAF	09/95	11/95	2,300	\$1,174	YES	NO	N/A			
SY170	Navy Combat Edge FY-1996 FY-1997	TBD TBD	COMP/FFP OPTION	USAF/NICP PHIL USAF/NICP PHIL	08/96 01/97	07/97 12/97	300 658	\$3,300 \$3,050	NO, May 96	NO	N/A			
SY175	AMELIA FY-1996 FY-1997	TBD TBD	COMP/FFP COMP/FFP	NICP PHIL. NICP PHIL.	08/96 01/97	05/97 10/97	300 300	\$ 800 \$ 800	NO, Apr 96	NO	N/A			
REMARKS:														
1) First year procurement is a sole source procurement through the GSA catalogue, to satisfy an Urgent HQTs USMC requirement. Follow-on procurements will be competitive.														
2) FY 95/96 buys are associated with upgrading existing assets for immediate Fleet use.														

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CLASSIFICATION										DATE									
P-1 ITEM NOMENCLATURE										MARCH 1996									
FY 1996/97 BUDGET PRODUCTION SCHEDULE										DATE									
COST CODE	ITEM NAME/PROG YR	U/M	SERV	PROGRAM QTY	KCP DUE TO 1 OCT	FISCAL YEAR												LATER	
						1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005		
SY040	PRC-112																		
	FY 1994			134															
	FY 1996			324															
SY045	PRC-112 P3(GPS)																		
	FY 1996			500															
	FY 1996			1000															
	FY 1997			1212															
SY046	PRC-112 P3(GPS) Inter																		
	FY 1996			12															
	FY 1997			15															
SY050	CB HELO UPGRADE																		
	FY 1996			965															
SY080	LASER/EYE PROTECTION																		
	FY 1997			500															
SY100	CWU-60P																		
	FY 1996			794															
	FY 1997			2009															
SY110	HEED P3																		
	FY 1996			2650															
	FY 1997			2650															
SY120	ASAP(ARMOR)																		
	FY 1996			850															
	FY 1996			1000															
	FY 1997			1234															

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FY 1996/97 BUDGET PRODUCTION SCHEDULE

[illegible]

MANUFACTURERS NAME & LOCATION	PRODUCTION RATES		REACHED D+
	INITIAL 1-8-5	MAXIMUM	
PAISS 180	50	280	500
PAISS 180	50	100	225
EXTREME COLD WEATHER KIT 180	5	25	50
MINI-DIRT BACKPACK 180	10	100	300
REVERSE COSMOGIC DESIGNS/180	50	200	250
AMERICAN EAGLE 180	50	75	200

	PROCUREMENT LEAD TIME		MANUFACTURING LEAD TIME	TOTAL LEAD TIME
	PRIOR 1 OCT	AFTER 1 OCT		
PATISS	0	11	10	21
PATISS (14-0406)	0	5	10	15
PAESS	0	11	4	15
PAESS (06)	0	6	6	12
PAESS (97)	0	5	12	17
EXTREME COLD WEATHER KIT	0	11	5	16
EXTREME COLD WEATHER KIT (06)	0	11	5	21
MUM - EXTREME COLD WEATHER KIT	0	4	0	4
MUM - EXTREME COLD WEATHER KIT (14-0406)	0	12	2	14
NAVY COMBAT EDGE	0	11	21	32
NAVY COMBAT EDGE (14-0406)	0	4	11	15
NAVY COMBAT EDGE (14-0406)	0	11	9	20
ANIELA	0	11	9	20
ANIELA (14-0406)	0	11	9	20

REMARKS

PAESS. FIRST AND SECOND BUYS ARE TO UPGRADE EXISTING SUITS.

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P-1 ITEM NOMENCLATURE
AVIATION LIFE SUPPORT SYSTEMS

MARCH 1996

AVIATION LIFE SUPPORT SYSTEMS

FY 1996/97 BUDGET PRODUCTION SCHEDULE

[illegible]

MANUFACTURERS NAME & LOCATION	PRODUCTION RATES		REACHED D+
	men	1000	
PRC-112P3(CF5) Motorola Scorsdale AZ	40	200	
PRC-112P3(CF5) Interlogor Motorola	1	5	
Laser Eye Protection T8D	25	200	400
CWJ-60P T8D	50	200	300
NEOCPSI T8D	50	100	250

[illegible]

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UNCLASSIFIED CLASSIFICATION										DDG EXHIBIT P-21A									
FY 1996/97 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NONENCLOSURE AVIATION LIFE SUPPORT SYSTEMS									
										DATE									
										MARCH 1996									
COST CODE	ITEM/PROG YR	U/M	SERV	PROGRAM QTY	ACCP PRIOR 1 OCT	BALANCE DUE AS OF 1 OCT	FISCAL YEAR												LATER
							1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	
SY130	PATSS																		
	FY 1996			1687	1120	567 283 284													
	FY 1997			2551		2551													
SY140	PAESS																		
	FY 1997			650		650													
SY150	MINI-RAFT BACKPACK																		
	FY 1997			660		660													
SY170	NAVY COMBAT EDGE																		
	FY 1996			300	180	120 60													
	FY 1997			658		658													
SY175	AMELIA																		
	FY 1997			300		300													

MANUFACTURERS NAME & LOCATION		PRODUCTION DATES		REACHED	
PATSS TBD		INT/EXT 1-8-5	MIN/PM	D+	
PAESS TBD		50 200	500		
MINI-RAFT BACKPACK TBD		50 100	225		
NAVY COMBAT EDGE TBD		50 75	200		
AMELIA TBD		50 50	300		

MANUFACTURERS NAME & LOCATION		PRODUCTION DATES		REACHED	
PATSS TBD		INT/EXT 1-8-5	MIN/PM	D+	
PAESS TBD		50 200	500		
MINI-RAFT BACKPACK TBD		50 100	225		
NAVY COMBAT EDGE TBD		50 75	200		
AMELIA TBD		50 50	300		

P-1 SHOP LIST		PAGE NO	
ITEM NO	136	10	

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CLASSIFICATION

APPROPRIATION		BUDGET ACTIVITY				REQUIREMENTS STUDY - NONCONSUMABLES				(DDO EXHIBIT P-23B)		DATE: MARCH 1996
OTHER PROCUREMENT, NAVY		B.A. 3 - AVIATION SUPPORT EQUIPMENT				P-1 ITEM NOMENCLATURE				SUBHEAD No.		43SY
COST CODE	COST CODE TITLE	TOTAL LO./ REQUIREMENT	Quantity on hand and not in use	Quantity in use	Quantity Due in w/ FY95 & Prior Funds	Current Year FY 96 Procurement	Planned Budget FY 97 Procurement	Balance	Phasing Rationale			
SY040	PRC-112 Survival Radios	4,000	0	3,542	134	324	0	0	Funding Constraints			
SY045	PRC-112 P31 (GPS)	4,000	0	0	500	1,000	1,212	1,288	Funding Constraints/Ready for Production			
SY046	PRC-112 P31 (GPS) INTERROGATOR	48	0	0	0	12	15	21	Funding Constraints			
SY050	CB Helo Upgrade	3,190	0	3,190	3,190	0	0	0	Shelf Life/Funding Constraints			
SY060	COMBAT SURVIVOR/EVADER LOCATOR (CSE)	9,000	0	0	0	0	0	9,000	Funding Constraints/Ready for Production			
SY080	LASER EYE PROTECTION	7,800	0	0	0	794	2,009	7,300	Funding Constraints/Ready for Production			
SY100	CWU-60/P	4,350	0	0	0	2,650	2,650	1,547	Funding Constraints/Ready for Production			
SY110	HEED P31	5,300	0	0	850	1,000	1,234	0	Funding Constraints/Ready for Production			
SY120	AISAP (ARMOR)	3,568	0	0	0	1,687	2,551	484	Funding Constraints/Ready for Production			
SY130	PATSS	8,652	0	0	0	1,000	650	4,414	Funding Constraints/Ready for Production			
SY140	PAESS	2,100	0	0	450	1,000	0	0	Funding Constraints/Ready for Production			
SY145	EX. COLD WEATHER SURVIVAL KIT	147	0	0	0	147	0	0	Funding Constraints/Ready for Production			
SY150	MINI-RAFT BACKPACK	5,900	0	0	0	400	660	4,840	Funding Constraints/Ready for Production			
SY160	REVERSE OSMOSIS DESALINATOR	2,300	0	0	2,300	0	0	0	Funding Constraints/Ready for Production			
SY170	NAVY COMBAT EDGE	1,821	0	0	0	300	658	863	Funding Constraints/Ready for Production			
SY175	AMELIA	1,200	0	0	0	300	300	600	Funding Constraints/Ready for Production			
MEMO ENTRIES												
CODE No. SY040-PRC-112 Survival Radio		CODE No. SY045-PRC-112 P31 (GPS) Radio		CODE No. SY046-PRC-112 P31 (GPS) INTERROGATOR		CODE No. SY050-CB HELO Upgrade		CODE No. SY060-CSEL				
Tycoms/Squadron 4,000		Tycoms/Squadron 4,000		Tycoms/Squadron 48		Tycoms/Squadron 3,190		Tycoms/Squadron 9,000				
CODE No. SY080-Laser Eye Protection		CODE No. SY110-HEED P31		CODE No. SY120-AISAP (ARMOR)		CODE No. SY130-PATSS		CODE No. SY140-PAESS				
Tycoms/Squadron 7,800		Tycoms/Squadron 5,300		Tycoms/Squadron 3,568		Tycoms/Squadron 8,652		Tycoms/Squadron 2,100				
CODE No. SY100-CWU-60/P		CODE No. SY145-Extreme Cold Weather Survival Kit		CODE No. SY150-MINI-RAFT BACKPACK		CODE NO SY 160- Reverse Osmosis Desalinator		CODE No. SY170-Navy Combat Edge				
Tycoms/Squadron 4,350		Tycoms/Squadron 147		Tycoms/Squadron 5,900		Tycoms/Squadron 2,300		Tycoms/Squadron 1,821				
CODE No. SY175-AMELIA												
Tycoms/Squadron 1,200												
				P-1 SHOPP. LIST ITEM NO. 136		PAGE NO. 11		UNCLASSIFIED CLASSIFICATION				
DD FORM 2445, JUL 87												

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BUDGET ITEM JUSTIFICATION SHEET						DATE:	March 1996
P-40							
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					
OTHER PROCUREMENT, NAVY/		AIRBORNE MINE COUNTERMEASURES 7350					
BA-3: NAVY/AVIATION SUPPORT EQUIPMENT							
	1995	1996	1997	1998	1999	2000	2001
QUANTITY							
COST							
(In Millions)	\$0.3	\$18.9	\$13.5	\$12.2	\$44.1	\$54.7	\$65.1

ITEM DESCRIPTION/JUSTIFICATION:

Airborne Mine Countermeasures (AMCM) Equipment is used by MH-63E helicopters to counter the threat of sea mines. The equipment is divided into two broad categories, minesweeping and minehunting; (1) minesweeping is performed by mechanical or influence sweeps. In mechanical sweeping, the mine mooring is severed by the sweep gear allowing the mine to float to the surface where it is destroyed. In influence sweeping, a magnetic or acoustic field which simulates the magnetic/acoustic signature of a ship is introduced into the water. This field causes the mine mechanism to actuate. (2) In mine hunting the object is to actually locate and classify, mark, or neutralize the mine, usually by means of high resolution sonar. AMCM squadrons currently have capability in mechanical, magnetic, and acoustic sweeping, mine surveillance and marking. Its mission is to locate, classify and neutralize moored and bottom mines.

S0061 - The MK-105 magnetic minesweeping system is a hydrofoil platform that carries a turbo-generator power pack and is towed by a MH-63E helicopter, allowing for safe, high speed sweeping of course magnetic influence mines at twice the output of the current MK-105. Technological upgrade increases supportability, reliability and maintainability (R&M), and increases operational effectiveness. ECPs are analyzed, prioritized and screened to accommodate replacement of subsystems/components because of obsolescence.

S0060 - The funds provided are for the procurement of the A/N37U-1 Mechanical Minesweeping Systems.

S0020 - The funds provided are for the modification of systems to accommodate replacement of subsystems/components because of obsolescence. ECPs are analyzed, prioritized and screened to accommodate replacement of subsystems/components.

S0062 - The funds provided are for the procurement of the Multi-mission Craft Air Cushion (MCAC).

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WEAPON SYSTEM COST ANALYSIS EXHIBIT										DATE: March 1996	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/ BA-3: NAVY AVIATION SUPPORT EQUIPMENT			P-5		P-1 ITEM NOMENCLATURE/SUBHEAD						
					AIRBORNE MINE COUNTERMEASURES 73S0						
			TOTAL COST IN THOUSANDS OF DOLLARS								
COST CODE	ELEMENT OF COST	IDENT CODE	FY 1995		FY 1996		FY 1997		QTY	TOTAL COST	
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST			
	MINE WARFARE, N852										
S0020	MODIFICATION	A		293		754		645			
S0080	A/N37U-1 MECH MINESWEEPING			0	6	3,447	9	4,520			
S0061	MK-105 UPGRADE			0	3	14,725		4,600			
S0062	MCAC			0		0	1	3,700			
	TOTAL			293		18,926		13,465			

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P-1 SHOPPING LIST

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT										DATE	
P-5A										March 1996	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE			SUBHEAD			73S0			
OTHER PROCUREMENT, NAVY		AIRBORNE MINE									
BA-3: NAVY/AVIATION SUPPORT EQUIPMENT		COUNTERMEASURES									
COST CODE	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT* COST (000)	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLE
S0060	A/N37U-1 MECH MINESWEEPING										
	FY 1996	GSS GROTON, CT	C/FFP	NAVSEA	02/96	02/97	6	574	YES	NO	
	FY 1997	GSS GROTON, CT	OPTION	NAVSEA	11/96	11/97	9	502	YES	NO	
S0061	MK-105 UPGRADE FY 1996	EDO CORP COLLEGE POINT, NY	SS/FFP	NAVSEA	12/95	02/98	1	4,908	NO	NO	
		EDO CORP	SS/FFP	NAVSEA	05/96	07/98	2	4,908	NO	NO	
	FY 1997	EDO CORP	OPTION	NAVSEA	04/97						
S0062	MCAC FY 1997	TBD	C/FFP	NAVSEA	02/97	02/98	1	3,700	YES	NO	
REMARKS											
S0061 - MK-105 UPGRADE KITS - THE FUNDING FOR FY 1997 WILL BE USED TO PROCURE SUPPORT EQUIPMENT, PUBLICATIONS, AND FACTORY TRAINING FOR THE UPGRADED MK-105 SYSTEMS.											

APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE		SUBHEAD		DATE	
OPN BA-3: NAVY/AVIATION SUPPORT EQUIPMENT		AIRBORNE MINE COUNTERMEASURES		73S0		March 1996	
COST CODE		ITEM MANUFACTURER/PROCUREMENT YEAR		FISCAL YEAR		CALENDAR YEAR	
				1995		1996	
				1997		1998	
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MODIFICATION INSTALLATION SUMMARY (EXHIBIT P-3N) (TOA, Dollars in Millions)										DATE March 1996
APPROPRIATION/BUDGET ACTIVITY										P-1 ITEM NOMENCLATURE AIRBORNE MINE COUNTERMEASURES (73S0)
BA-3: NAVY/AVIATION SUPPORT EQUIPMENT										
System/Modification	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	TOTAL	
MODIFICATION	1107.0	293.0	754.0	645.0	816.0	2895.0	1634.0	902.0	9146.0	
A/N37U-1 MECH MINESWEEPING	5994.0	0.0	3447.0	4520.0	0.0	0.0	0.0	0.0	13961.0	
MK-105 UPGRADE	0.0	0.0	14725.0	4600.0	9275.0	18000.0	18000.0	25000.0	89600.0	
MCAC	0.0	0.0	0.0	3700.0	0.0	0.0	0.0	0.0	3700.0	
MAGNETIC CABLE	0.0	0.0	0.0	0.0	2090.0	711.0	0.0	0.0	2801.0	
AN/AQS-20	0.0	0.0	0.0	0.0	0.0	22411.0	24300.0	31600.0	78311.0	
ALMDS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
AMNSYS	0.0	0.0	0.0	0.0	0.0	0.0	10789.0	7611.0	18400.0	
TOTAL	7101.0	293.0	18926.0	13465.0	12181.0	44117.0	54723.0	65113.0	215919.0	

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ITEM NO. 137

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UNCLASSIFIED		OTHER PROCUREMENT NAVY										Mar-96
P40 EXHIBIT		BUDGET ITEM JUSTIFICATION SHEET										
AVIATION SUPPORT EQUIPMENT - OTHER SUPPORT EQUIPMENT		LAMPS MK III SHIPBOARD EQUIPMENT U3S1										
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001					
QUANTITY	4	0	0	0	0	0	0					
COST IN MILLIONS		6.1	16.2	15.3	25.0	0	2.6	0				

The LAMPS MK III Ship/Air Weapon System is a computer integrated ship/helicopter system that increases the effectiveness of surface combatants.

The Weapon System is a multi-appropriation funded program. The OPN-3 program funds the LAMPS MK III shipboard equipment that is to be installed in existing ships being backfitted with the LAMPS MK III Weapon System. Procured under this line are:

- (1) AN/SRQ-4, a shipboard terminal data transmission device,
- (2) HLS (Helicopter Landing System), including Recovery, Assist, Securing, and Traversing (RAST) System; the Horizon Reference Set (HRS); and the flight Deck Status & Signaling System (FDSSS), and
- (3) Acoustic Processor DDG-993, a Sonar Signal Processing System (SSPS).

The AN/SRQ-4 is an electronic device which receives electronic surveillance measures, radar video and acoustic data and transmits secure voice, shipboard computer and air navigation data. HLS is used in the launching and retrieving of LAMPS MK III helicopters from LAMPS ships. The Acoustic Processor accepts acoustic data and selects, records, reproduces, processes, and displays the data as controlled by the Acoustic Sensor Operator (ASO).

The FY 1995 budget request provides for the procurement of four (4) Acoustic Processor systems, System Integration, Logistics, Production Engineering Support and advanced planning associated with installation of the LAMPS MK III Upgrade aboard ship hulls DDG-993 and DDG-995.

FY 1996 and FY 1997 supports Systems Integration, ILS, Production Engineering and installation of the LAMPS MK III Upgrade aboard ship hulls DDG-993 and DDG-995.

WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5) WEAPON SYSTEM COST ELEMENTS	A. OTHER PROCUREMENT, NAVY BUDGET ACTIVITY -3 AVIATION SUPPORT EQUIPMENT - AIRCRAFT SUPPORT EQUIP				B. LAMPS MK III SHIPBOARD EQUIPMENT		C. N/A	D. DATE: Mar-96
	IDENT CODE	FY 1995 QTY	FY 1995 TOTAL COST	FY 1996 QTY	FY 1996 TOTAL COST	FY 1997 QTY	FY 1997 TOTAL COST	
SYSTEM INTEGRATION			700		782		0	
ACOUSTIC PROCESSOR		4	1100		0		0	
ILS			100		100		0	
PRODUCTION ENGINEERING/QA/TE			517		300		0	
INSTALLATION OF EQUIPMENT (FMP)			3660		15026		15282	
TOTAL		4	6,077		16,208		15,282	

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P-1 LINE 138
LAMPS MK III SHIPBOARD EQUIPMENT

MODIFICATION INSTALLATION SUMMARY

(TOA, Dollars in Millions)

	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	TOTAL
LAMPS MK III UPGRADE SHIPALT (334)	3.7	15.0	15.3	24.8	0.0	0.0	0.0	58.8

P-1 LINE 138
LAMPS MK III SHIPBOARD EQUIPMENT

MODIFICATION TITLE:
DESCRIPTION/JUSTIFICATION:

LAMPS MK III UPGRADE
DDG-983 CLASS SHIPS

The LAMPS MK III UPGRADE SHIPALIT 334 installs and integrates the LAMPS MK III weapons system on DDG-983, DDG-994, DDG-995 and DDG-996. The LAMPS MK III system is a computer integrated ship-helicopter weapons system that greatly increases the effectiveness of surface combatants, and consist of the Acoustic Processor unique LAMPS MK III data link (AN/SRQ-4) and the Helicopter Landing System. The AN/SRQ-4 and the Helicopter Landing System (HLS) were procured with prior year funds; the Acoustic Processors are being procured in FY 1995.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
FINANCIAL PLAN (\$ in Millions):

DETAIL	FY 94 & Prior	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	TO COMP	TOTAL
Procurement	Qty	Qty	Qty	Qty	Qty	Qty	Qty	\$
Installation Kits								
Installation Kit Nonrecurring								
Equipment								
Equipment Nonrecurring								
Engineering Change Orders								
Data								
Training Equipment								
Support Equipment								
Other								
Interim Contractor Support								
Total Procurement Cost	3.8	4	1.0**				4	4.8
Installation of Hardware								
FY 94 (4 KITS)		AP	3.7	1	16.1			62.4
Total Installation Cost	0	0	3.7	1	16.1			62.4
Total Procurement Cost	3.8	4	4.7	1	16.1			67.2
METHOD OF IMPLEMENTATION:	N/A							
CONTRACTS DATES:	FY 94: N/A	FY 95: 3/95	ADMINISTRATIVE LEADTIME: 5			PRODUCTION LEADTIME: 7 MONTHS		
DELIVERY DATE:	FY 94: N/A	FY 95: 10/95	(REFLECTS ACOUSTIC PROCESSOR ONLY)			(REFLECTS ACOUSTIC PROCESSOR ONLY)		
INSTALLATION SCHEDULE: /1	FY 94: 1 2 3 4	FY 95: 1 2 3 4	FY 96: 1 2 3 4	FY 97: 1 2 3 4	FY 98: 1 2 3 4	FY 99: 1 2 3 4		
INPUT FY 94 & PRIOR								
INPUT FY 94 & PRIOR								

Show Install Schedule Through the FYDP
AP= ADVANCE PLANNING

In addition, AN/SRQ-4 (4 units) and HLS (4 units) hardware were procured with prior years funds and are to be installed concurrently with the Acoustic Processor budgeted in FY 1995. Installation costs are priced as a complete ship alteration, costs for the installation of individual equipment is not available.

1/ Reflect input/output of LAMPS MK III Upgrade Systems.

**The FY 95 procurement of (4) Acoustic Processor is an economical buy.

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EXHIBIT P-3a Individual Modification

PROCUREMENT HISTORY & PLANNING										A DATE: Mar-96									
EXHIBIT P-5A																			
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE				LAMPS MK III SHIPBOARD EQUIPMENT											
AVIATION SUPPORT ACTIVITY-OTHER SUPPORT EQUIP		METHOD & TYPE		CONTRACT BY		AWARD DATE		FIRST DELIVERY		QUANTITY		UNIT COST		AVAILABLE NOW		REV REQ'D		WHEN AVAILABLE	
LINE ITEM	FISCAL YEAR	AND LOCATION	& TYPE																
S1009		NAVSEA	S/FFP	NAVSEA	3/95	10/95	4	275	YES	NO									
ACoustic PROC DDG-993 FY 95																			
REMARKS:																			
UNCLASSIFIED																			

[illegible]

[illegible]

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NAVMAT 7110.1		OTHER PROCUREMENT, NAVY					(DOD EXHIBIT P-40)		DATE
BUDGET ACTIVITY 3 - AVIATION SUPPORT EQUIPMENT - A/C SUPPORT EQUIPMENT		BUDGET ITEM JUSTIFICATION SHEET							Mar 1996
		P-1 ITEM NOMENCLATURE							SUBHEAD NO.
		REWSON PHOTOGRAPHIC EQUIPMENT							Y3S4
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	
QUANTITY									
COST (in millions)		0.6	0.6	0.9	0.9	1.4	1.8	1.8	

This line procures photographic film processing, printing, and film interpretation equipment for the exclusive support of the on-going intelligence mission of CV/CVNs. Specifically, this equipment primarily supports the mission of the F-14 borne Tactical Airborne Reconnaissance Pod System (TARPS) as well as related Carrier Intelligence Center (CVIC) photographic requirements, and the hand held intelligence photography collected by the embarked Airwing (nine squadrons) and deployed Carrier Battle Group (CVBG). The CVBG normally consists of the CV/CVN and its support ships.

Also, this equipment supports the photographic intelligence that is disseminated from internal and National sources to the Airwing (CVW) and CVBG. TARPS imagery is often provided to in-theater NATO forces as well. TARPS remains the only tactical aerial photographic reconnaissance asset in theater and is directly controlled by the Theater Commander.

The FY95-97 funds are continuing to procure the needed inventory objective of subject equipments. They are also providing new equipments for scanning and digital dissemination of TARPS film imagery.

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APPROPRIATION		PROGRAM COST BREAKDOWN		(DOD EXHIBIT P-5)		DATE
OTHER PROCUREMENT, NAVY		WEAPON SYSTEM COST ANALYSIS				Mar-96
BUDGET ACTIVITY 3 - AVIATION SUPPORT		P-1 NOMENCLATURE				SUBHEAD
EQUIPMENT - A/C SUPPORT EQUIPMENT		REWSON PHOTOGRAPHIC EQUIPMENT				Y3S4
		(TOTAL COST IN THOUSANDS OF DOLLARS)				
COST CODE	ELEMENT OF COST	IDENT CODE	FY 1995		FY 1996	
			QTY	TTL COST	QTY	TTL COST
S4019	MISC SMALL EQUIPMENT & ECPS	A		453		224
S4830	PRODUCTION ENGINEERING	A		100		371
	TOTAL			553		595
						933

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NAVJAT FORM 71 10.1		OTHER PROCUREMENT, NAVY				DATE		
BUDGET ACTIVITY		BUDGET ITEM JUSTIFICATION SHEET				(DOD EXHIBIT P-40)		
AVIATION SUPPORT EQUIPMENT/AIRCRAFT SUPPORT EQ.		P-1 ITEM NOMENCLATURE						
		STOCK SURVEILLANCE EQUIPMENT 43S2						
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (in millions)	1.4			1.5	1.6	1.6	1.9	1.9
PROGRAM DESCRIPTION/JUSTIFICATION/EXECUTION. The NAVAIRSYSCOM (AIR-3.1.1) Stock Surveillance Equipment (SRV) Program furnishes varied specialized and ancillary test equipment/systems for both air-to-air and air-to-ground missiles, ordnance, ammunition and their related components. The SRV Program directly supports the System Effectiveness Engineering (SEE) Program. This helps to provide accurate indicators for Fleet Readiness in regard to safety, serviceability, reliability, availability, quality and mission effectiveness. The following SEE activities participate in the SRV Program: NAVSURFWARREN Crane Div., WPNSTA YORKTOWN, AND NAVSURFWARREN Indian Head Div. WPNSTA Yorktown is responsible for procurement of missile electronic component test equipment and Airborne Weapon Analysis Reporting System (AWARS) equipment. NAVSURFWARRENs Crane Div and Indian Head Div are responsible for procurement of missile and ordnance energetic test equipment. AIR LAUNCHED GUIDED MISSILES - All-Up-Round (AUR) missiles presently supported are: PHOENIX, SIDEWINDER, SPARROW, AMRAAM, HARPOON, HARM, HELLFIRE, MAVERICK, SIDEARM, PAVEWAY III, WALLEYE, and their related equipment. AIRBORNE ORDNANCE/AMMUNITION/SPECIAL STORES - Weapons/Stores presently supported are: Aircrew escape propulsion systems, cartridges, explosive ordnance system devices, cartridge actuated devices, common aircrew ejection set, gun ammunition/fuzing systems, pyrotechnics, aircraft rockets, general purpose bombs, cluster weapons, and their related components.								

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APPROPRIATION		WEAPON COST ANALYSIS (P-5)				DATE		
OTHER PROCUREMENT, NAVY						March 1996		
BUDGET ACTIVITY 3		P-1 ITEM NOMENCLATURE				SUBHEAD NO.		
AVIATION SUPPORT EQUIPMENT/AIRCRAFT SUPPORT EQUIPMENT		STOCK SURVEILLANCE EQUIPMENT				43S2		
(Total cost in thousands of dollars)								
COST CODE	ELEMENT OF COST	IDENT CODE	FY 1995		FY 1996		FY 1997	
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
S2005	Air - Launched Guided Missiles			\$		\$		\$
	Air - to - Air							
	PHOENIX			70			0	0
	SIDEWINDER			45			65	50
	SPARROW			32			40	25
	AMRAAM			84			104	60
	Air - to - Ground							
	HARPOON			60			60	60
	HARM			120			90	50
	HELLFIRE			65			55	15
	MAVERICK			0			20	0
	PAVEWAY III			0			75	0
	SIDEARM			20			15	0
	WALLEYE			37			15	0
	Multi - System Purpose							
	ALL A/L Guided Missiles			385			157	703
	Subtotal (S2005)							
	Air - Launched Ordnance			918			696	963
	GRAND TOTAL			1383			778	627
S2006							1474	1590
NAVJMAT FORM 7110/8 (8-76)			P-1 SHOPP. LIST		PAGE NO.			
			ITEM NO.		140		2	

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BUDGET P1 BUDGET PROCUREMENT HISTORY & PLANNING (EXHIBIT P-5A)										DATE	March 1996
APPROPRIATION/BUDGET ACTIVITY 3					P-1 ITEM NOMENCLATURE					SUBHEAD NO.	
OTHER PROCUREMENT, NAVY/AVIATION SUPPORT EQUIPMENT					STOCK SURVEILLANCE EQUIPMENT					43S2	
LINE ITEM/FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQUIRED?	IF YES WHEN AVAILABLE	
FISCAL YR. 1995 PROG.											
S2005											
ENERGY DISPERSIVE X-RAY EMITS	TBD DRI	C/FP C/FP	INDIAN HEAD CRANE	AUG 95 JUL 95	AUG 96 MAR 96	1	189.00 164.00	YES YES	N/A N/A		
HANDLING SYSTEM	TBD	C/FP	CRANE	AUG 95	JUN 96	1	208.00	YES	N/A		
S2006											
REMOTE MONITOR SETERA, MODEL 80	PW SETERAM	C/FP C/FP	CRANE CRANE	JUN 95 APR 95	JUN 96 MAR 96	1	144.00 159.00	YES YES	N/A N/A		
FISCAL YR. 1996 PROG.											
S2006											
PYROTECHNIC/PROPELLENT TEST CONTAINMENT CHAMBER	COMARCO Bloomfield, IN	C/FP	CRANE	JUN 96	MAY 97	1	450.00	NO 6/96	N/A		
FISCAL YR. 1997 PROG.											
S2005/S2006											
HIGH SPEED STURRY CUTTER	TBD	C/FP	CRANE	JUN 97	JUN 98	1	(*) 375.00	NO 5/97	N/A		
REMARKS:											
EQUIPMENT OVER \$100.0K											
(*) THE HIGH SPEED STURRY CUTTER WILL BE CAPABLE OF "CUTTING" BOTH MISSILE AND ORDNANCE EXPLOSIVES AND PROPELLANTS. \$75K (FOR DESIGN AND FABRICATION OF THE HOLDING FIXTURE) WILL BE FUNDED UNDER S2005 (MISSILES) AND THE OTHER \$300K (FOR HARDWARE) UNDER S2006 (ORDNANCE).											

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BUDGET ITEM JUSTIFICATION SHEET

BUDGET ITEM JUSTIFICATION SHEET					(DOD EXHIBIT P-40)		DATE		
APPROPRIATION / BUDGET ACTIVITY					P-1 ITEM NOMENCLATURE			SUBHEADS	
OTHER PROCUREMENT, NAVY / BUDGET ACTIVITY 3					OTHER AVIATION SUPPORT EQUIPMENT			43S7	
AVIATION SUPPORT EQUIPMENT / AIRCRAFT SUPPORT EQUIPMENT								U3S7/Y3S7	
FISCAL YEARS			FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY									
COST (in millions)			15.0	12.2	7.9	2.1	2.1	2.1	0.2

The following items are funded in this line:

1. Tactical Aircraft Mission Planning Systems (TAMPS) - FY 1995/96 only
2. Industrial Facilities Equipment
3. Capital Automated Data Processing Equipment (ADPE)
4. NAVAIR Support Equipment - FY 1995 only

1. Tactical Aircraft Mission Planning Systems (TAMPS)

* In FY 1997 and beyond TAMPS is budgeted in OPN BA2 under P-1 line item 93, TAC A/C MISSION PLANNING SYS (TAMPS). Detailed justification for the TAMPS program is provided in the OPN BA2 backup book.

2. Industrial Facilities Equipment

This item supports funding of capital costs associated with the Navy's government-owned but contractor-operated Deep Water Test Facility at San Clemente Island.

3. Capital ADPE

Procurements supporting the NAVAIR organization (NALDA & I/ETMS), which were formerly budgeted and managed under the Computer Acquisition Program (CAP) in FY 95 and prior is now directly controlled by NAVAIR, effective FY 1996. Details regarding these NAVAIR Capital ADPE projects are provided below:

BUDGET ITEM JUSTIFICATION SHEET							(DOD EXHIBIT P-40)	DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE				SUBHEADS		
OTHER PROCUREMENT, NAVY / BUDGET ACTIVITY 3			OTHER AVIATION SUPPORT EQUIPMENT				43S7		
AVIATION SUPPORT EQUIPMENT / AIRCRAFT SUPPORT EQUIPMENT							U3S7/Y3S7		
FISCAL YEARS			FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY									
COST (in millions)			15.0	12.2	7.9	2.1	2.1	2.1	0.2

a. Naval Aviation Logistics Data Analysis (NALDA):

NAVAIR was directed by CNO to extend NALDA access to additional USN and USMC activities, principally the Fleet and to all NAVAIR Team sites. Sufficient automated data processing equipment (ADPE) and accessibility to the NALDA data base is presently not available at most Navy and Marine Corps Fleet level maintenance and repair facilities. The ADPE is necessary to eliminate the current on-going degradation of their capability to make informed decisions affecting material readiness, safety, and resource allocations.

NALDA is an upline integrated logistics support (ILS) data system designed to accommodate upline logistics data reporting requirements and to perform critical mission support analyses. NALDA provides the following capabilities: (1) a cost-effective corporate, integrated aviation maintenance/logistics data bank; (2) standardized procedures for data access and data analysis techniques; (3) aviation hardware/software/firmware configuration management tracking capabilities; (4) consolidation of redundant autonomous systems into a single system; (5) standardized, aviation-wide MIS support; (6) a Logistics Support Analysis Record (LSAR) data system mandated by OSD MIL-STD 1388-2B; (7) an accurate configuration management and serial number tracking data system implemented using the CLIP-CIM software for aviation weapons systems - the fleet's number one priority to improve readiness and safety of flight; (8) more timely (daily) receipt of fleet AV-3M and configuration data; (9) ability to access centralized fleet-wide, near real-time, operational/readiness data from NALDA in accordance with DoD security regulations; and (10) Logistics Management Decision Support System (LMDSS). Information available from the NALDA data bank consists of aviation maintenance, engineering, operational readiness, safety, configuration management, parts life tracking, and other critical logistics data for all naval aircraft, engines, components, and other weapons equipment.

Data reporting requirements for the NALDA system are directed by OPNAV and NAVAIR as defined primarily by the Naval Aviation Maintenance Program (NAMMP) manual. Users of the NALDA system are located at all NAVAIR headquarters, field activities, fleet TYCOMS, Functional Wings, Intermediate Maintenance Activities, and other aviation logistics activities.

BUDGET ITEM JUSTIFICATION SHEET							(DOD EXHIBIT P-40)	DATE
APPROPRIATION / BUDGET ACTIVITY							P-1 ITEM NOMENCLATURE	SUBHEADS
OTHER PROCUREMENT, NAVY / BUDGET ACTIVITY 3							OTHER AVIATION SUPPORT EQUIPMENT	43S7
AVIATION SUPPORT EQUIPMENT / AIRCRAFT SUPPORT EQUIPMENT								U3S7/Y3S7
FISCAL YEARS			FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000
QUANTITY								
COST (in millions)			15.0	12.2	7.9	2.1	2.1	0.2
b. Interactive/Electronic Technical Manual System (I/ETMS) I/ETMS is a strategy which supports the Automated Library Technical Manual System (ALTMS) and Automated Technical Information System (ATIS), NAVAIR application ATIS (AIR) programs. The objective of the I/ETMS strategy is to provide the capability to receive and use digital technical information in the support of developing and fielding Naval Aviation Weapon Systems and Equipment. I/ETMS is the result of a DoD/DoN CALS implementation requirement to eliminate paper technical manuals and provide electronic technical manuals to the aviation maintenance community. The I/ETMS configuration consists of the hardware, software, and network interfaces to support fleet maintenance activity capability to receive, store, and use electronically presented maintenance technical information. ATIS (AIR) is designed to develop and implement at intermediate level maintenance activities an automated system for the distribution, delivery, and display of digital technical data, which will augment the capability provided by ALTMS. ATIS (AIR) is intended to satisfy requirements for value-added digital delivery, improved maintenance and supply functionality, and provide interfaces to existing fleet information systems (ISs). (Note: Implementation of three (3) sites will commence in FY 1995 and will be completed in FY 1996.)								
4. <u>NAVAIR Support Equipment</u> Includes investment equipment used in the operation of NAVAIR Headquarters, and NAVAIR Field Activities such as the Naval Air Warfare Center, Training Systems Division, Orlando, FL, the Pacific Missile Range Facilities (PMRF), Hawaii, and the Naval Air Technical Services Facility (NATSF), Philadelphia. Support equipment is also provided for the Naval Air Warfare Center, Weapon Division, Point Mugu, CA and the Naval Air Warfare Center, Aircraft Division, Patuxent River, MD. This equipment is evaluated on a cost-effective (lease vs. purchase) basis. All non-centrally managed OIS equipment is funded in this line item. Beginning in FY 1989 the procurement of the NAVAIR Headquarter (NHN) system was included in the OIS-Headquarters line. NHN provides an integrated data communications network that extends the capabilities of the Naval Air Systems Command, its Program Executive Offices, and Naval Air Warfare Center Headquarters to support management of aviation design, development, engineering, logistics support, contract and budgetary data. The last year of funding for the stand-up of the NHN was FY 1995. Also, FY 1995 provides for the Joint Acquisition Management System (JAMS) II, which provides tools to efficiently oversee management of today's defense systems acquisition by generating consistent, quality procurement packages in a reduced amount of time. Effective in FY 1996, these non-centrally managed procurements will be budgeted and executed in the Operations & Maintenance, Navy appropriation.								

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE
B. APPROPRIATION / BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE								
OTHER PROCUREMENT, NAVY / B.A. 3 - AVIATION SUPPORT EQUIPMENT		OTHER AVIATION SUPPORT EQUIPMENT (43S7)								
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION City, State	CONTRACT METHOD &TYPE	CONTRACTED BY	AWD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW? WHEN?	SPEC REV REQD?	IF YES WHEN AVAIL?
Capital ADPE S7040 - NALDA 1996 1997	FDSC ** FDSC **		NAVSUP NAVSUP	3/96 2/97	8/96 7/97	47 45	107.8 105.5	YES YES	NO NO	N/A N/A
Capital ADPE S7040: ** FDSC : Federal Data Systems Corporation.										

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BUDGET ITEM JUSTIFICATION SHEET							DATE
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE:					March 1996
Other Procurement, Navy BA-3: Aviation Support Equipment		Safety and Survivability Items					BLI: 427100
QUANTITY	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
COST (In Millions)	\$0.0	\$9.8	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0

Congress provided funding in FY 1996 for the purchase of non-developmental life safety items which have been identified by the operational commands and the Department of the Navy's Office of Safety and Survivability as priorities for procurement. Since Congress recognized the Navy and Marine Corps currently fund only a limited number of safety and survivability items on an adhoc basis funding was provided under this line item to finance the purchase of those critical items identified as priorities by the Fleet.

Specifically, funding will be used to procure Crash Survivability Flight Incident Recorders (CSFIR) for F/A-18 and AV-8B retrofit. The CSFIR will be a non-developmental item, commercial off-the-shelf procurement for a crash hardened recorder to be used in support of F/A-18 and AV-8B aircraft mishap and incident investigations. The effort will be managed by the Naval Air Systems Command, PMA-209 Air Combat Electronics Program Office.