CLASSIFICATION: **UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET P-40	DATE: February 1998
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY**	P-1 ITEM NOMENCLATURE **Shipboard Air Traffic Control (SATC) NARM# 283100**
Program Element for Code B Items: **Not Applicable**	Other Related Program Elements **0604504N**

	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	$38.5	A	$6.3	$14.1	$2.9	$8.6	$7.7	$8.2	$8.5	$8.6	CONT	CONT

DESCRIPTION:

Shipboard Air Traffic Control (SATC) systems are responsible for safe and expeditious control of air traffic within 50 NM of a ship.

Funding in FY96 through FY99 provides for procurement and installation of the following:

FY96 funds the installation of SATC modification kits, AN/TPX-42A(V)13 Amphibious Air Traffic Control (AATC)-Direct Altitude and Readout(DAIR) systems, Carrier Air Traffic Control Center(CATCC) to AATC-DAIR field change kits and AN/SPN-43C upgrades.

FY97 funds the procurement of one AATC-DAIR system, three CATCC-to-AATC field change kits, various SATC modification kits, and associated installation efforts including AN/SPN-43C upgrades.

FY98 funds the installation of SATC modification kits and AN/SPN-43C upgrades.

FY99 funds the procurement of two CATTC-to-AATC field change kits and various SATC modification kits . It also funds the installation of CATTC-to-AATC field change kits and AN/TPX-42A(V)13 AATC DAIR.

Installing Agent: Shipyards and Alteration Installation Teams

CLASSIFICATION: **UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS
P-40a

DATE: **February 1998**

APPROPRIATION/BUDGET ACTIVITY
OTHER PROCUREMENT, NAVY

P-1 ITEM NOMENCLATURE
Shipboard Air Traffic Control (SATC)

Procurement Items	ID Code	Prior Years	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
AN/TPX-42A(V)13	A											
QTY		4		1								**5**
FUNDING		16.127		3.430								**19.557**
CATCC to AATC KIT	N/A											
QTY		6		3		2	2	2	2	1	2	**20**
FUNDING		5.103		3.471		4.876	4.984	5.048	5.205	2.660	5.458	**36.805**
AN/TPX-42 ADS UPGRADI	N/A											
QTY									1	1	10	**12**
FUNDING									0.930	0.950	9.748	**11.628**
OTHER COST	N/A	17.193	6.349	7.239	2.896	3.712	2.689	3.190	2.368	4.996	CONT	CONT
TOTAL P-1 FUNDING		38.423	6.349	14.140	2.896	8.588	7.673	8.238	8.503	8.606	CONT	CONT

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System	DATE: **February 1998**
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy**	ID Code **A**	P-1 ITEM NOMENCLATURE/SUBHEAD **Shipboard Air Traffic Control 42MP**

COST CODE	ELEMENT OF COST	ID Code	Prior Years	FY 1996			FY 1997			FY 1998			FY 1999		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
MP023	SATC MOD KITS *	N/A	2				VAR		641				VAR		182
MP040	AATC-DAIR SYSTEM AN/TPX-42(V)13	A	16,127				1	3,430	3,430						
MP042	CATCC TO AATC F/C KITS	N/A	5,103				3	1,157	3,471				2	2,438	4,876
MP800	INTEGRATED LOGISTICS SUPPORT	N/A							120			104			125
MP830	PRODUCTION ENGINEERING SUPPORT	N/A							279			200			345
MP840	QUALITY ASSURANCE	N/A							20			17			60
MP860	ACCEPTANCE TEST & EVALUATION	N/A													314
MP900	NON-FMP INSTALLATION	N/A				504			107			70			69
MP910	FMP INSTALLATION	N/A				5,845			6,072			2,505			2,617
	VARIOUS 1/	N/A	14390												
			38,423			**6,349**			**14,140**			**2,896**			**8,588**

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

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1/ The amount identified against this cost element reflects total prior year funding associated with cost elements no longer financed in FY 1995 and beyond.

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A) | Weapon System | A. DATE **February 1998**

B. APPROPRIATION/BUDGET ACTIVITY: **Other Procurement, Navy** — **BA2 - Communications and Electronics Equipment**

C. P-1 ITEM NOMENCLATURE: **Shipboard AIr Traffic Control (SATC)**

SUBHEAD: **42MP**

Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
MP040 AATC-DAIR System (AN/TPX-42(V)13)										
FY94	1	$3,806	NAVAIR	Oct-93	SS/FP	TELEPHONICS	3/94	4/96	YES	
FY97	1	$3,430	NAWCAD St Inigoes	Dec-96	SS/FP	TELEPHONICS FARMINGDALE, NY	5/97	3/99	YES	
MP042 CATCC to AATC-DAIR F/C Kits										
FY95	2	$1,776	NAVAIR	Dec-95	SS/FP	TELEPHONICS	8/95	12/97	YES	
FY97	3	$1,157	NAWCAD St Inigoes	Dec-97	SS/FP	TELEPHONICS	7/97	1/99	YES	
FY99	2	$2,438	NAWCAD St Inigoes	Jun-99	SS/FP	TELEPHONICS FARMINGDALE, NY	2/99	8/00	YES	

D. REMARKS

MP040: AATC-DAIR - The unit cost for system is ship configuration dependent.

MP042: CATTC to AATC F/C - FY 99 unit cost is higher because in FY 97 (and prior) there were components of the conversion kit available from decommissioned ships. No reusable components will be available for the FY 99 through FY 03 conversion kits.

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: CVs, CVNs, LHDs, LHAs, and selected shore sites. TYPE MODIFICATION: R & M MODIFICATION TITLE: SATC Modification Kit Summary (MP023)

DESCRIPTION/JUSTIFICATION:

SATC MODIFICATION KIT SUMMARY

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS				0.002				0.641				0.182				1.142		0.159		2.298		CONT	CONT	CONT
INSTALLATION KITS- UNIT COST																								
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT																								0.000
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								2.102
INSTALL COST	0	0.000	0	0.108	0	0.504	0	0.107	0	0.070	0	0.087	0	0.141	0	0.253	0	0.308	0	0.632	0	CONT	CONT	CONT
TOTAL PROCUREMENT		0.000		0.110		0.504		0.748		0.070		0.269		0.141		1.395		0.467		2.930				CONT

The total quantity reflects the inventory objective for this item.

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

MODELS OF SYSTEMS AFFECTED: **CVs, CVNs, LHDs, LHAs, and selected shore sites**

MODIFICATION TITLE: SATC Modification Kit Summary (MP023)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION:
ADMINISTRATIVE LEADTIME: N/A
PRODUCTION LEADTIME: N/A
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																								
FY 1995 EQUIPMENT				**0.108**																				**0.108**
FY 1996 EQUIPMENT						**0.504**																		**0.504**
FY 1997 EQUIPMENT								**0.107**																**0.107**
FY 1998 EQUIPMENT										**0.070**														**0.070**
FY 1999 EQUIPMENT												**0.087**												**0.087**
FY 2000 EQUIPMENT														**0.141**										**0.141**
FY 2001 EQUIPMENT																**0.253**								**0.253**
FY 2002 EQUIPMENT																		**0.308**						**0.308**
FY 2003 EQUIPMENT																				**0.632**				**0.632**
TO COMPLETE																						**CONT**		**CONT**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: CVs, CVNs, LHDs, LHAs, and selected shore sites. TYPE MODIFICATION: R & M MODIFICATION TITLE: RF Rotary Coupler, Brush Block & L Band Rotary Joint (MP023)

DESCRIPTION/JUSTIFICATION:

Replace high failure RF Coupler brush block & L Band Rotary Joint.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **Production ECP 3/97**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								
PROCUREMENT																								
INSTALLATION KITS							28	0.193															28	0.193
INSTALLATION KITS- UNIT COST								0.007																
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST	0	0.000	0	0.000	0	0.000	8	0.078	20	0.055	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	28	0.133
TOTAL PROCUREMENT		0.000		0.000		0.000		0.271		0.055		0.000		0.000		0.000		0.000		0.000		0.000		0.326

The total quantity reflects the inventory objective for this item.

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: **CVs, CVNs, LHDs, LHAs, and selected shore sites**

MODIFICATION TITLE: RF Rotary Coupler, Brush Block & L Band Rotary Joint (MP023)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: **AIT**

ADMINISTRATIVE LEADTIME: 4 Months

PRODUCTION LEADTIME: 3 Months

CONTRACT DATES: FY 1997: Jan-97 FY 1998: N/A FY 1999: N/A

DELIVERY DATE: FY 1997: Apr-97 FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																								
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT							8	0.078	20	**0.055**													28	0.133
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	14	14	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	28
Out	0	0	0	4	4	5	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: CVs, CVNs, LHDs, LHAs, and selected **shore sites**

TYPE MODIFICATION: R & M

MODIFICATION TITLE: EMI GASKET MOD (MP023)

DESCRIPTION/JUSTIFICATION:

Magnetron emits RF into surrounding equipment causing erroneous fault indications.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **Production ECP 3/97**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								
PROCUREMENT																								
INSTALLATION KITS							28	0.053															28	0.053
INSTALLATION KITS - UNIT COST								0.002																
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST	0	0.000	0.0	0.000	0	0.000	28	0.018	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	28	0.018
TOTAL PROCUREMENT		0.000		0.000		0.000		0.071		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.071

The total quantity reflects the inventory objective for this item.

CLASSIFICATION: UNCLASSIFIED

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

MODELS OF SYSTEMS AFFECTED: **CVs, CVNs, LHDs, LHAs, and selected shore sites**

MODIFICATION TITLE: EMI GASKET MOD (MP023)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: **AIT**

ADMINISTRATIVE LEADTIME: 4 Months

PRODUCTION LEADTIME: 3 Months

CONTRACT DATES: FY 1997: Jan-97 FY 1998: N/A FY 1999: N/A

DELIVERY DATE: FY 1997: Apr-97 FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																								
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT							28	0.018															28	0.018
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	28	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	28
Out	0	0	0	14	14	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	28

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: CVs, CVNs, LHDs, LHAs, and selected shore sites

TYPE MODIFICATION: R & M

MODIFICATION TITLE: Waveguide Bandpass Interlock (MP023)

DESCRIPTION/JUSTIFICATION:

Allows temporary system operation during maintenance of bandpass filter by providing necessary interlock connection.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **Production ECP 3/97**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								
PROCUREMENT																								
INSTALLATION KITS							28	0.042															28	0.042
INSTALLATION KITS - UNIT COST								0.002																
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST	0	0.000	0.0	0.000	0	0.000	28	0.004	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	28	0.004
TOTAL PROCUREMENT		0.000		0.000		0.000		0.046		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.046

The total quantity reflects the inventory objective for this item.

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

MODELS OF SYSTEMS AFFECTED: **CVs, CVNs, LHDs, LHAs, and selected shore sites**

MODIFICATION TITLE: Waveguide Bandpass Interlock (MP023)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: **AIT**

ADMINISTRATIVE LEADTIME: 4 Months

PRODUCTION LEADTIME: 3 Months

CONTRACT DATES: FY 1997: Jan-97 FY 1998: N/A FY 1999: N/A

DELIVERY DATE: FY 1997: Apr-97 FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																								
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT							28	0.004															28	0.004
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	28	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	28
Out	0	0	0	14	14	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	28

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: CVs, CVNs, LHDs, LHAs, and selected shore sites TYPE MODIFICATION: Fight Safety MODIFICATION TITLE: CP/LP FEEDHORNS (MP023)

DESCRIPTION/JUSTIFICATION:

Adds circular polarization to increase system performance in rain/adverse weather

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **Production ECP**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	0	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								
PROCUREMENT																								
INSTALLATION KITS							5	0.335															5	0.335
INSTALLATION KITS - UNIT COST								0.067																
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST	0	0.000	0.0	0.000	0	0.000	0	0.000	5	0.015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	5	0.015
TOTAL PROCUREMENT		0.000		0.000		0.000		0.335		0.015		0.000		0.000		0.000		0.000		0.000		0.000		0.350

The total quantity reflects the inventory objective for this item.

CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: **UNCLASSIFIED**

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

MODELS OF SYSTEMS AFFECTED: **CVs, CVNs, LHDs, LHAs, and selected shore sites**

MODIFICATION TITLE: CP/LP FEEDHORNS (MP023)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: **AIT**

ADMINISTRATIVE LEADTIME: 4 Months

PRODUCTION LEADTIME: 3 Months

CONTRACT DATES: FY 1997: Jan-97 FY 1998: N/A FY 1999: N/A

DELIVERY DATE: FY 1997: Apr-97 FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																								
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT									5	**0.015**													5	**0.015**
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Out	0	0	0	0	0	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: CVs, CVNs, LHDs, LHAs, and selected shore sites TYPE MODIFICATION: R & M MODIFICATION TITLE: PITCH AND ROLL ACTUATOR SERVO MOTOR IMPROVEMENT (MP023)

DESCRIPTION/JUSTIFICATION:

Replaces servo motor to reduce overheating.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **Production ECP 5/97**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								
PROCUREMENT																								
INSTALLATION KITS							2	0.018									16	0.159	10	0.102			28	0.279
INSTALLATION KITS - UNIT COST								0.009										0.010		0.010				
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST	0	0.000	0	0.000	0	0.000	2	0.007	0	0.000	0	0.000	0	0.000	0	0.000	16	0.090	10	0.057	0	0.000	28	0.154
TOTAL PROCUREMENT		0.000		0.000		0.000		0.025		0.000		0.000		0.000		0.000		0.249		0.159		0.000		0.433

The total quantity reflects the inventory objective for this item.

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: **CVs, CVNs, LHDs, LHAs, and selected shore sites**

MODIFICATION TITLE: PITCH AND ROLL ACTUATOR SERVO MOTOR IMPROVEMENT (MP023)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: **AIT**

ADMINISTRATIVE LEADTIME: 4 Months

PRODUCTION LEADTIME: 3 Months

CONTRACT DATES: FY 1997: Jan-97 FY 1998: N/A FY 1999: Jan-99

DELIVERY DATE: FY 1997: Apr-97 FY 1998: N/A FY 1999: Apr-99

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																								
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT							2	0.007															2	0.007
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																	16	**0.090**					16	0.159
FY 2003 EQUIPMENT																			10	0.057			10	0.057
TO COMPLETE																								

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	10	0	0	28
Out	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8	0	0	5	5	0	28

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: LHDs TYPE MODIFICATION: TESTING MODIFICATION TITLE: Combat System Test Simulator (MP023)

DESCRIPTION/JUSTIFICATION:

This interface to the Combat System Test Simulator is a NAVSEA requirement to improve combat system training and test capabilities using an integrated systems approach.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **Fielded**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								
PROCUREMENT																								
INSTALLATION KITS	6	0.050																					6	0.050
INSTALLATION KITS - UNIT COST																								
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST	0	0.000	2	0.108	4	0.504	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	6	0.612
TOTAL PROCUREMENT		0.050		0.108		0.504		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.662

The total quantity reflects the inventory objective for this item.

CLASSIFICATION: UNCLASSIFIED

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: **CVs, CVNs, LHDs, LHAs, and selected shore sites**

MODIFICATION TITLE: Combat System Test Simulator (MP023)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: **AIT**

ADMINISTRATIVE LEADTIME: N/A

PRODUCTION LEADTIME: N/A

CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A

DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS			2	0.108	4	0.504																	6	0.612
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	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	6
Out	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	6

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: CVs, CVNs, LHDs, LHAs, and selected shore sites TYPE MODIFICATION: R & M MODIFICATION TITLE: Tilt Actuator Improvement (MP023)

DESCRIPTION/JUSTIFICATION:

Existing Tilt Actuator experiences lock-up when extended too far.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **Production ECP 9/99**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								
PROCUREMENT																								
INSTALLATION KITS											28	0.041											28	0.041
INSTALLATION KITS - UNIT COST												0.001												
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	28	0.044	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	28	0.044
TOTAL PROCUREMENT		0.000		0.000		0.000		0.000		0.000		0.085		0.000		0.000		0.000		0.000		0.000		0.085

The total quantity reflects the inventory objective for this item.

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: **CVs, CVNs, LHDs, LHAs, and selected shore sites**

MODIFICATION TITLE: Tilt Actuator Improvement (MP023)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: **AIT**

ADMINISTRATIVE LEADTIME: 4 Months

PRODUCTION LEADTIME: 3 Months

CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: Jan-99

DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: Apr-99

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																								
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT											28	**0.044**											28	**0.044**
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Out	0	0	0	0	0	0	0	0	0	0	0	14	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: CVs, CVNs, LHDs, LHAs, and selected shore sites TYPE MODIFICATION: Safety MODIFICATION TITLE: Halyard Entanglement Protection Mod (MP023)

DESCRIPTION/JUSTIFICATION:

Prevent damage to OE-138A/SPN43A antenna pedestal caused by halyard entanglements.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **Production ECP 1/99**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								
PROCUREMENT																								
INSTALLATION KITS											27	0.141											27	0.141
INSTALLATION KITS - UNIT COST												0.005												
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	27	0.043	0	0.000	0	0.000	0	0.000	0	0.000	00	0.000	27	0.043
TOTAL PROCUREMENT		0.000		0.000		0.000		0.000		0.000		0.184		0.000		0.000		0.000		0.000		0.000		0.184

Total inventory objective is 30. 29 OPN units & 1 R&D unit.

CLASSIFICATION: UNCLASSIFIED

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: **CVs, CVNs, LHDs, LHAs, and selected shore sites**

MODIFICATION TITLE: Halyard Entanglement Protection Mod (MP023)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: **AIT**

ADMINISTRATIVE LEADTIME: 4 Months

PRODUCTION LEADTIME: 3 Months

CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: **Jan-99**

DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: Apr-99

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																								
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT											27	**0.043**											27	**0.043**
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Out	0	0	0	0	0	0	0	0	0	0	0	14	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: CVs, CVNs, LHDs, LHAs, and selected shore sites TYPE MODIFICATION: R&M Upgrade MODIFICATION TITLE: AN/SPN-43C Upgrade (MP031)

DESCRIPTION/JUSTIFICATION:

This kit replaces the obsolete and unprocurable AN/SPN-43B receiver and transmitter units with a single channel receiver/transmitter using state-of-the-art solid state circuitry.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **Fielded**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								
PROCUREMENT																								
INSTALLATION KITS	22	4.980																					22	4.980
INSTALLATION KITS - UNIT COST		0.226																						
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST	9	7.550	0	0.119	3	3.979	6	4.458	3	2.484	0	0.052	1	1.030	0	0.000	0	0.000	0	0.000	0	0.000	22	19.672
TOTAL PROCUREMENT		12.756		0.119		3.979		4.458		2.364		0.044		0.943		0.000		0.000		0.000		0.000		24.652

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED **CVs, CVNs, LHDs, LHAs, and selected shore site** MODIFICATION TITLE: AN/SPN-43C Upgrade (MP031)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: N/A PRODUCTION LEADTIME: N/A
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS	9	7.550	AP	0.119	3	3.979	6	4.458	3	2.484	AP	0.052	1	1.030									22	**19.672**
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								
TO COMPLETE																								

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	23	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	23
Out	12	0	2	2	2	0	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22

The total inventory objective is 28 units. 6 units are SCN funded and 22 OPN funded.

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: CVNs, LHDs, and LHAs TYPE MODIFICATION: Safety MODIFICATION TITLE: AN/TPX-42(V)1: (MP040)

DESCRIPTION/JUSTIFICATION:

Interrogator used air traffic control on amphibious ships is required to support the increased air traffic density due to deployment of the AV-8B.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **Full Production 1/90**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
PROCUREMENT																								
INSTALLATION KITS																								
INSTALLATION KITS- UNIT COST																								
INSTALLATION KITS NONRECURRING																								
EQUIPMENT	4	16.127					1	3.430															5	19.557
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST	1	1.640	1	1.881	1	1.157	1	1.614	0	0.021	1	2.074	0	0.000	0	0.000	0	0.000	0	0.000	0.0	0.000	5	8.387
TOTAL PROCUREMENT		17.767		1.881		1.157		5.044		0.021		2.074		0.000		0.000		0.000		0.000		0.000		27.944

The FY 97 unit includes the Advanced Display System (ADS) upgrade.

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: **CVNs, LHDs, and LHAs**

MODIFICATION TITLE: AN/TPX-42(V)13 (MP040)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **FMP**
ADMINISTRATIVE LEADTIME: 8 Months
PRODUCTION LEADTIME: 22 Months
CONTRACT DATES: FY 1997: May-97 FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: Mar-99 FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS	1	1.640	1	1.881	1	1.157	1	1.614															4	6.292
FY 1995 EQUIPMENT																							0	0.000
FY 1996 EQUIPMENT																							0	0.000
FY 1997 EQUIPMENT									AP	**0.021**	1	2.074											1	2.095
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Out	3	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: CVs, CVNs, LHDs, LHAs, and selected shore sites TYPE MODIFICATION: Safety Enhancement MODIFICATION TITLE: CATCC TO AATC F/C KITS (MP042)

DESCRIPTION/JUSTIFICATION:

Backfit CV/CVN with improvements from AATC-DAIR. Prior to this, CATCC-to-AATC kits were being procured without the Advanced Display System (AN/UYQ-70) ECP. In FY99 and beyond kits with ADS are being procured.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **Production ECP 1/97 (W/ADS)**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS	2	1.551	4	3.552			3	3.471			2	4.876	2	4.984	2	5.048	2	5.205	1	2.660	2	5.458	20	36.805
INSTALLATION KITS - UNIT COST		0.776		0.888				1.157				2.438		2.492		2.524		2.603		2.660		2.729		
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT																								0.000
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	1	0.300	2	0.673	2	0.709	0	0.000	0	0.000	1	0.473	2	0.903	3	1.159	2	0.866	2	0.868	5	2.047	20	7.998
TOTAL PROCUREMENT		1.851		4.225		0.709		3.471		0.000		5.349		5.887		6.207		6.071		3.528		7.505		44.803

The total quantity reflects the inventory objective for this item.

FY 94 and prior unit cost is lower because these units did not include the ADS upgrade.

The FY 99 unit cost is higher because in FY 97 (and prior) assets from decommissioned ships were used, but no additional assets will be available for the FY 99 through FY 03 units.

Total quantity of 20 represents the OPN inventory objective for this item. An additional 2 units have been purchased with SCN funds.

CLASSIFICATION: **UNCLASSIFIED**

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

MODELS OF SYSTEMS AFFECTED **CVs, CVNs, LHDs, LHAs, and selected shore site** MODIFICATION TITLE: CATCC TO AATC F/C KITS (MP042)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 5 Months
PRODUCTION LEADTIME: 18 Months for first unit on contract (every 2 months afterward for subsequent units)
CONTRACT DATES: FY 1997: Jul-97 FY 1998: N/A FY 1999: Feb-99
DELIVERY DATE: FY 1997: Jan-99 FY 1998: N/A FY 1999: Aug-00

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS	1	0.300	**1**	**0.336**																			2	0.636
FY 1995 EQUIPMENT			1	0.337	2	0.709					1	**0.473**											4	1.519
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT													2	0.903	1	**0.429**							3	1.332
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																							0	0.000
FY 2000 EQUIPMENT															2	0.730	2	0.866					4	1.596
FY 2001 EQUIPMENT																			2	0.868			2	0.868
FY 2002 EQUIPMENT																					2	0.819	2	0.819
FY 2003 EQUIPMENT																					1	0.409	1	0.409
TO COMPLETE																					2	0.819	2	0.819
TO COMPLETE																								0.000

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	6	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	4	20
Out	5	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	1	2	0	0	1	0	1	0	1	1	0	5	20

CLASSIFICATION: **UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET P-40	DATE: February 1998
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY**	P-1 ITEM NOMENCLATURE **Automatic Carrier Landing System (ACLS) 42PN**
Program Element for Code B Items: **Not Applicable**	Other Related Program Elements **0604504N**

	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	**$141.1**	A	**$2.7**	**$7.3**	**$11.9**	**$10.1**	**$20.1**	**$18.9**	**$18.6**	**$18.9**	**CONT**	**CONT**

The Automatic Carrier Landing System (ACLS) provides the primary precision electronic guidance for landing aircraft under all weather conditions on CVs, CVNs, LHAs, LHDs and at selected Naval Air Stations. Many of the components in the system have been in service for more than twenty years. This program funds maintainability, reliability and supportability improvements to existing equipment components that can no longer be maintained and supported, as well as items providing upgraded operational capability.

Due to design engineering and maintenance deficiencies, and length of time in service, the AN/SPN-42A landing system was replaced with the AN/SPN-46(V)1 on CVs and CVNs.

FY96 - Procures installation of various ACLS Modification Kits.

FY97 - Procures one AN/SPN-41 Independent Landing Monitor (ILM),various ACLS Modification Kits, and associated installation efforts.

FY98 - Procures one AN/SPN-41 ILM, various ACLS Modification Kits, and associated installation efforts.

FY99 - Procures one AN/SPN-41 ILM, various ACLS Modification Kits, and associated installation efforts.

CLASSIFICATION: **UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS P-40a												DATE: February 1998
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY							P-1 ITEM NOMENCLATURE Automatic Carrier Landing System (AC 42PN					
Procurement Items	ID Code	Prior Years	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
AN/SPN-46(V)	**A**											
Quantity		**8**										**8**
Funding		**70,722**										**70,722**
AN/SPN-41	**A**											
Quantity		**7**		**1**	**1**	**1**	**3**	**3**	**1**			**24**
Funding		**17,600**		**2,266**	**2,317**	**2,368**	**7,261**	**7,421**	**2,528**			**59,361**
Other Costs		**52,768**	**2,697**	**5,018**	**9,595**	**7,727**	**12,800**	**11,440**	**16,028**	**18,891**	**CONT**	**CONT**
Total Funding		**141,090**	**2,697**	**7,284**	**11,912**	**10,095**	**20,061**	**18,861**	**18,556**	**18,891**	**CONT**	**CONT**

P-1 SHOPPING LIST CLASSIFICATION:

DD Form 2454, JUN 86 ITEM NO. **80** PAGE NO. **2**

UNCLASSIFIED

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System	DATE: February 1998
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy**	ID Code **A**	P-1 ITEM NOMENCLATURE/SUBHEAD **Automatic Carrier Landing System (ACLS)** **42PN**

COST CODE	ELEMENT OF COST	ID Code	Prior Years	FY 1996			FY 1997			FY 1998			FY 1999		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
PN403	**AN/SPN-46(V)**	**A**	**70,722**												
PN404	**AN/SPN-41 Ind Landing Monitor (ILM)**	**A**	**17,600**				**1**	**2,266**	**2,266**	**1**	**2,317**	**2,317**	**1**	**2,368**	**2,368**
PN408	**ACLS Mod Kits**	**N/A**	**890**	**VAR**			**VAR**		**237**	**VAR**		**6,157**	**VAR**		**5,649**
PN800	**Integrated Logistics Support**	**N/A**				**15**			**210**			**162**			**144**
PN830	**Production Engineering Support**	**N/A**				**234**			**528**			**287**			**283**
PN840	**Quality Assurance**	**N/A**				**20**			**231**			**270**			**270**
PN900	**Non-FMP Installation**	**N/A**				**317**			**656**			**940**			**346**
PN910	**FMP Installation**	**N/A**	**40,212**			**2,111**			**3,156**			**1,779**			**1,035**
	Various 1/		**11,340**												
	1/ The amount identified against this cost element reflects total prior year funding associated with cost elements no longer financed in FY 1995 and beyond.														
						2,697			**7,284**			**11,912**			**10,095**

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE February 1998

B. APPROPRIATION/BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE	SUBHEAD
Other Procurement, Navy	BA2 - Communications and Electronics Equipment	Automatic Carrier Landing Systems (ACLS)	42PN

Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
PN404 AN/SPN-41 ILM										
FY97	1	2266	NAVAIR		PX	NAWCAD St. Inigoes	11/96	1/98	YES	
FY98	1	2317	NAVAIR		PX	NAWCAD St. Inigoes	11/97	1/99	YES	
FY99	1	2368	NAVAIR		PX	NAWCAD St. Inigoes	11/98	1/00	YES	

D. REMARKS

System integration and assemby will be accomplished by the field activity, NAWCAD, after procuring individual components through existing contractual vehicles.
Some components will be reused assets refurbished and modified by NAWCAD.

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: **CVs, CVNs and selected shore sites** TYPE MODIFICATION: **Flight Safety** MODIFICATION TITLE: **AN/SPN-46(V) (PN403)**

DESCRIPTION/JUSTIFICATION:

Provide safe, reliable final guidance for CV/CVN based aircraft in all weather conditions.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **IOC 1991**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								
PROCUREMENT																								
INSTALLATION KITS																								
INSTALLATION KITS - UNIT COST																								
INSTALLATION KITS NONRECURRING																								
EQUIPMENT	**7**	**62.734**	**1**	**7.988**																			**8**	**70.722**
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST	**5**	**11.515**	**1**	**3.297**	**AP**	**0.619**	**2**	**2.529**	**0**	**1.281**	**0**	**0.0**	**0**	**0.0**	**0**	**0.0**	**0**	**0.0**	**0**	**0.0**	**0**	**0.0**	**8**	**19.241**
TOTAL PROCUREMENT		**74.249**		**11.285**		**0.619**		**2.529**																**88.682**

The total program quantity for this item is fifteen, of which eight were OPN funded and seven SCN funded.

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

MODELS OF SYSTEMS AFFECTED: **CVs, CVNs and selected shore sites** MODIFICATION TITLE: **AN/SPN-46(V) (PN403)**

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: **N/A** PRODUCTION LEADTIME: **N/A**
CONTRACT DATES: FY 1997: **N/A** FY 1998: **N/A** FY 1999: **N/A**
DELIVERY DATE: FY 1997: **N/A** FY 1998: **N/A** FY 1999: **N/A**

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS	**5**	**11.515**	**1**	**3.297**																			**6**	**14.812**
FY 1995 EQUIPMENT					**AP**	**0.619**	**2**	**2.529**															**2**	**3.148**
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT									**0**	**1.281**													**0**	**1.281**
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								

INSTALLATION SCHEDULE:

	FY 96	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	**6**	0	**1**	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**8**
Out	**6**	0	0	**1**	**1**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**8**

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: **CV/CVNs, LHAs, LHDs & selected shore sites** TYPE MODIFICATION: **Flight Safety** MODIFICATION TITLE: **AN/SPN-41 (PN404)**

DESCRIPTION/JUSTIFICATION:

The field change corrects parts obsolescence problems, as well as enhancing maintainability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **IOC 1994**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								
PROCUREMENT																								
INSTALLATION KITS																								
INSTALLATION KITS - UNIT COST																								
INSTALLATION KITS NONRECURRING																								
EQUIPMENT	**7**	**17.600**					**1**	**2.266**	**1**	**2.317**	**1**	**2.368**	**3**	**7.261**	**3**	**7.421**	**1**	**2.528**					**17**	**41.761**
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST	**7**	**12.700**			**AP**	**0.573**	**AP**	**0.560**	**1**	**0.899**	**1**	**0.339**	**1**	**2.012**	**3**	**3.958**	**3**	**5.334**	**1**	**1.864**			**17**	**28.239**
TOTAL PROCUREMENT		**30.300**						**2.826**		**3.216**		**2.707**		**9.273**		**11.379**		**7.862**		**1.864**				**69.427**

The total program quantity for this item is twenty-nine, of which seventeen are OPN funded and twelve SCN funded.

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: **CV/CVNs, LHAs, LHDs & selected shore** MODIFICATION TITLE: **AN/SPN-41 (PN404)**

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATIC **AIT**
ADMINISTRATIVE LEADTIME: **2 Months** PRODUCTION LEADTIME: **14 Months**
CONTRACT DATES: FY 1997: **N/A** FY 1998: **N/A** FY 1999: **N/A**
DELIVERY DATE: FY 1997: **1/98** FY 1998: **1/99** FY 1999: **1/00**

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS	**7**	**12.700**																					**7**	**12.700**
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT					**AP**	**0.573**	**AP**	**0.560**	**1**	**0.899**													**1**	**2.032**
FY 1998 EQUIPMENT											**1**	**0.339**											**1**	**0.339**
FY 1999 EQUIPMENT													**1**	**2.012**									**1**	**2.012**
FY 2000 EQUIPMENT															**3**	**3.958**							**3**	**3.958**
FY 2001 EQUIPMENT																	**3**	**5.334**					**3**	**5.334**
FY 2002 EQUIPMENT																			**1**	**1.864**			**1**	**1.864**
FY 2003 EQUIPMENT																								
TO COMPLETE																								

INSTALLATION SCHEDULE:

	FY 96 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	**14**	0	0	0	0	0	**1**	0	0	0	**1**	0	0	0	**1**	0	0	0	**1**	**1**	**1**	0	**1**	**1**	**1**	0	**1**	0	0	0	**24**
Out	**14**	0	0	0	0	0	0	**1**	0	0	**1**	0	0	0	**1**	0	0	0	0	**2**	**1**	0	**1**	**1**	**1**	0	**1**	0	0	0	**24**

This is an in house build by NAWCAD St Inigoes.

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: **CV/CVN, LHAs, LHDs and selected shore sites.** TYPE MODIFICATION: **Flight safety** MODIFICATION TITLE: **ACLS Mod Kits Summary (PN408)**

DESCRIPTION/JUSTIFICATION:

Summary

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 1994 & Prio		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								
PROCUREMENT																								
INSTALLATION KITS				**0.890**				**0.237**		**6.157**		**5.649**		**8.913**		**5.193**		**9.078**		**14.899**		**31.467**		**82.483**
INSTALLATION KITS - UNIT COST																								
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST				**0.280**		**1.236**		**0.723**		**0.539**		**1.042**		**1.248**		**1.721**		**1.276**		**1.783**		**4.339**		**14.187**
TOTAL PROCUREMENT				**1.170**		**1.236**		**0.960**		**6.696**		**6.691**		**10.161**		**6.914**		**10.354**		**16.682**		**35.806**		**96.670**

Outyears include Mod Kits not differentiated on the P-3A exhibits that follow.
These include: AN/SPN-46 Moving Target Detector (MTD), AN/SPN-42T upgrade, and Passive Point Source.

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

MODELS OF SYSTEMS AFFECTED **CV/CVN, LHAs, LHDs and selected sh** MODIFICATION TITLE **ACLS MOD KITS SUMMARY (PN408)**

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATIO **AIT**
ADMINISTRATIVE LEADTIME: **N/A** PRODUCTION LEADTIME: **N/A**
CONTRACT DATES: FY 1997: **N/A** FY 1998: **N/A** FY 1999: **N/A**
DELIVERY DATE: FY 1997: **N/A** FY 1998: **N/A** FY 1999: **N/A**

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																								
FY 1995 EQUIPMENT				**0.280**																				**0.280**
FY 1996 EQUIPMENT						**1.236**																		**1.236**
FY 1997 EQUIPMENT								**0.723**																**0.723**
FY 1998 EQUIPMENT										**0.539**														**0.539**
FY 1999 EQUIPMENT												**1.042**												**1.042**
FY 2000 EQUIPMENT														**1.248**										**1.248**
FY 2001 EQUIPMENT																**1.721**								**1.721**
FY 2002 EQUIPMENT																		**1.276**						**1.276**
FY 2003 EQUIPMENT																				**1.783**				**1.783**
TO COMPLETE																						**4.339**		**4.339**

INSTALLATION SCHEDULE:

	FY 96 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: **CVs, CVNs and selected shore sites** TYPE MODIFICATION: **Flight Safety** MODIFICATION TITLE: **AN/SPN-46(V)3 Field Change Kit ((PN408)**

DESCRIPTION/JUSTIFICATION:

The field change corrects parts obsolescence problems, as well as enhancing maintainability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **Production ECP 9/96**

	FY 1994 & Prio		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								
PROCUREMENT																								
INSTALLATION KITS			**1**	**0.890**					**2**	**5.122**	**2**	**5.226**	**2**	**5.341**	**1**	**2.729**	**2**	**5.578**	**2**	**5.701**			**12**	**30.587**
INSTALLATION KITS - UNIT COST				**0.890**						**2.561**		**2.613**		**2.671**		**2.729**		**2.789**		**2.851**				
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST					**1**	**0.953**	**AP**	**0.656**			**2**	**0.943**	**2**	**1.041**	**2**	**1.030**	**1**	**0.733**	**2**	**1.279**	**2**	**1.435**	**12**	**8.070**
TOTAL PROCUREMENT				**0.890**		**0.953**		**0.656**		**5.122**		**6.169**		**6.382**		**3.759**		**6.311**		**6.980**		**1.435**		**38.657**

The total program quantity for this item is fourteen, of which twelve are OPN funded and two SCN funded.

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

MODELS OF SYSTEMS AFFECTED: **CVs, CVNs and selected shore sites** MODIFICATION TITLE: **AN/SPN-46(V)3 Field Change Kit (PIP) (PN408)**

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: **9 Months** PRODUCTION LEADTIME: **12 Months**
CONTRACT DATES: FY 1997: **N/A** FY 1998: **6/98** FY 1999: **6/99**
DELIVERY DATE: FY 1997: **N/A** FY 1998: **6/99** FY 1999: **6/00**

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																								
FY 1995 EQUIPMENT					**1**	**0.953**																	**1**	**0.953**
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																							**0**	**0.000**
FY 1998 EQUIPMENT							**AP**	**0.656**			**2**	**0.852**											**2**	**1.508**
FY 1999 EQUIPMENT											**AP**	**0.091**	**2**	**0.907**									**2**	**0.998**
FY 2000 EQUIPMENT													**AP**	**0.134**	**2**	**0.963**							**2**	**1.097**
FY 2001 EQUIPMENT															**AP**	**0.067**	**1**	**0.593**					**1**	**0.660**
FY 2002 EQUIPMENT																	**AP**	**0.140**	**2**	**1.136**			**2**	**1.276**
FY 2003 EQUIPMENT																			**AP**	**0.143**	**2**	**1.215**		
TO COMPLETE																					AP	**0.220**		

INSTALLATION SCHEDULE:

	FY 96 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	**1**	0	0	0	0	0	0	0	0	0	**0**	**1**	1	0	**0**	**1**	1	0	**0**	**1**	1	0	**0**	1	0	0	**0**	1	1	**2**	**12**
Out	**1**	0	0	0	0	0	0	0	0	0	0	**1**	**1**	0	**0**	**1**	1	0	**0**	**1**	1	0	**0**	1	0	0	0	**1**	1	**2**	**12**

Installation costs are ship dependent.

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: **CVs and CVNs** TYPE MODIFICATION: **Flight Safety** MODIFICATION TITLE: **AN/SPN-46(V)1 OSS (PN408)**

DESCRIPTION/JUSTIFICATION:

Provide redundant source of ship's speed to eliminate high severity failure mode.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **IOC 1991**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								
PROCUREMENT																								
INSTALLATION KITS																								
INSTALLATION KITS - UNIT COST																								**0.015**
INSTALLATION KITS NONRECURRING		**0.015**																						
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST					**4**	**0.283**	**2**	**0.067**															**6**	**0.350**
TOTAL PROCUREMENT		**0.015**				**0.283**		**0.067**																**0.365**

The inventory objective for this item is seven, of which six will be OPN funded and one SCN funded. Nonrecurring kit costs were required to develop field change documentation and installation guidance (only incidental materials required).

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

MODELS OF SYSTEMS AFFECTED: **CVs and CVNs** MODIFICATION TITLE: **AN/SPN-46(V)1 OSS (PN408)**

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: **N/A** PRODUCTION LEADTIME: **N/A**
CONTRACT DATES: FY 1997: **N/A** FY 1998: **N/A** FY 1999: **N/A**
DELIVERY DATE: FY 1997: **N/A** FY 1998: **N/A** FY 1999: **N/A**

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																								
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT					**4**	**0.283**																	**4**	**0.283**
FY 1997 EQUIPMENT							**2**	**0.067**															**2**	**0.067**
FY 1998 EQUIPMENT																								
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								

INSTALLATION SCHEDULE:

	FY 96	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	**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	**6**
Out	**4**	0	**1**	**1**	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**6**

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: **CVs, CVNs and selected shore sites.** TYPE MODIFICATION: **Flight safety** MODIFICATION TITLE: **ACLS Mod Kit (Bezel Assy) (PN**

DESCRIPTION/JUSTIFICATION:

This modification is required to correct obsolescence problems, with the added benefit of enhancing maintainability and reliability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **Production ECP 9/97**

	FY 1994 & Prio		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								
PROCUREMENT																								
INSTALLATION KITS									**15**	**0.199**													**15**	**0.199**
INSTALLATION KITS - UNIT COST										**0.013**														
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST									**15**	**0.175**													**15**	**0.175**
TOTAL PROCUREMENT										**0.374**														**0.374**

The total program quantity reflects the inventory objective for this item.

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

MODELS OF SYSTEMS AFFECTED: **CVs, CVNs and selected shore sites** MODIFICATION TITLE: **ACLS Mod Kit (Bezel Assy) (PN408)**

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: **1 Months** PRODUCTION LEADTIME: **7 Months**
CONTRACT DATES: FY 1997: **N/A** FY 1998: **N/A** FY 1999: **N/A**
DELIVERY DATE: FY 1997: **N/A** FY 1998: **5/98** FY 1999: **N/A**

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																								
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT									**15**	**0.175**													**15**	**0.175**
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								

INSTALLATION SCHEDULE:

	FY 96	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	0	0	0	0	0	0	0	**15**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**15**
Out	0	0	0	0	0	0	0	**7**	**8**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**15**

This is an in house build by NAWCAD St Inigoes.

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: **CV/CVN, LHA, LHD and selected shore si** TYPE MODIFICATION: **Flight safety** MODIFICATION TITLE: **ACLS Mod Kit (Crystal Mount) (**

DESCRIPTION/JUSTIFICATION:

This modification relocates crystal mounts to reduce damage and electromagnetic interference, which causes erroneous guidance information.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **Production ECP 1/98**

	FY 1994 & Prio		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								
PROCUREMENT																								
INSTALLATION KITS									**28**	**0.155**													**28**	**0.155**
INSTALLATION KITS - UNIT COST										**0.006**														
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST									**28**	**0.294**													**28**	**0.294**
TOTAL PROCUREMENT										**0.449**														**0.449**

The total program quantity reflects the inventory objective for this item. This field change will be procured and assembled by the field activity (NAWCAD).

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

MODELS OF SYSTEMS AFFECTE **CV/ CVN, LHA, LHD & selected shore** MODIFICATION TITLE: **ACLS Mod Kit (Crystal Mount) (PN408)**

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATI **AIT**
ADMINISTRATIVE LEADTIME: **2 Months** PRODUCTION LEADTIME: **3 Months**
CONTRACT DATES: FY 1997: **N/A** FY 1998: **N/A** FY 1999: **N/A**
DELIVERY DATE: FY 1997: **N/A** FY 1998: **2/98** FY 1999: **N/A**

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																								
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT									**28**	**0.294**													**28**	**0.294**
FY 1999 EQUIPMENT																								
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								

INSTALLATION SCHEDULE:

	FY 96	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	0	0	0	0	0	0	**28**	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**28**
Out	0	0	0	0	0	0	0	**14**	**14**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**28**

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: **LHAs, LHDs and selected shore sites** TYPE MODIFICATION: **Flight safety** MODIFICATION TITLE: **AN/SPN-35B R/T Upgrade (PN408)**

DESCRIPTION/JUSTIFICATION:

This modification improves reliability and maintainability in a system baseline that is many years old.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **Production ECP 10/98**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								
PROCUREMENT																								
INSTALLATION KITS							**AP**	**0.237**	**1**	**0.267**			**4**	**1.709**	**2**	**0.873**	**3**	**1.339**	**2**	**0.912**	**4**	**1.872**	**16**	**7.209**
INSTALLATION KITS - UNIT COST										**0.504**				**0.427**		**0.437**		**0.446**		**0.456**		**0.468**		
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST											**1**	**0.027**			**4**	**0.110**	**2**	**0.056**	**3**	**0.086**	**6**	**0.175**	**16**	**0.454**
TOTAL PROCUREMENT								**0.237**		**0.267**		**0.027**		**1.709**		**0.983**		**1.395**		**0.998**		**2.047**		**7.663**

The total program quantity reflects the inventory objective for this item. This mod kit consolidates modifications previously identified as AN/SPN-35B Mod Kit (Transmitter), AN/SPN-35B Mod Kit (Receiver) and AN/SPN-35B Mod Kit (STC Card): One R/T Upgrade consists of 2 ea. Transmitters, 2 ea. Receivers and 2 ea. STC Cards.

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

MODELS OF SYSTEMS AFFECTED **LHAs, LHDs and selected shore sites.** MODIFICATION TITLE **AN/SPN-35B R/T Upgrade (PN408)**

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION **AIT**
ADMINISTRATIVE LEADTIME: **2 Months** PRODUCTION LEADTIME: **8 Months**
CONTRACT DATES: FY 1997: **N/A** FY 1998: **N/A** FY 1999: **N/A**
DELIVERY DATE: FY 1997: **12/97** FY 1998: **7/98** FY 1999: **N/A**

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																								
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																							**0**	**0.000**
FY 1998 EQUIPMENT											**1**	**0.027**											**1**	**0.027**
FY 1999 EQUIPMENT																							**0**	**0.000**
FY 2000 EQUIPMENT															**4**	**0.110**							**4**	**0.110**
FY 2001 EQUIPMENT																	**2**	**0.056**					**2**	**0.056**
FY 2002 EQUIPMENT																			**3**	**0.086**			**3**	**0.086**
FY 2003 EQUIPMENT																					**6**	**0.175**	**6**	**0.175**
TO COMPLETE																								

INSTALLATION SCHEDULE:

	FY 96 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	**0**	0	0	**1**	0	0	0	**0**	0	0	0	**4**	**0**	0	0	**2**	0	0	0	**3**	0	0	0	2	**4**	**16**
Out	0	0	0	0	0	0	**0**	0	0	**1**	0	0	0	**0**	**0**	0	0	**1**	**1**	**1**	**1**	**1**	1	0	0	**1**	**1**	1	0	**6**	**16**

This is an in house build by NAWCAD St Inigoes.

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: **LHAs, LHDs and selected shore sites.** TYPE MODIFICATION: **Flight safety** MODIFICATION TITLE: **AN/SPN-35A to -35B Upgrade (PN**

DESCRIPTION/JUSTIFICATION:

This upgrade to the AN/SPN-35A baseline is a prerequisite for the AN/SPN-35B Mod Kits (transmitter, receiver and STC card).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **Production ECP 1/96**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								
PROCUREMENT																								
INSTALLATION KITS	**5**	**3.249**							**2**	**0.414**	**3**	**0.423**											**10**	**4.086**
INSTALLATION KITS - UNIT COST		**0.650**								**0.207**		**0.141**												
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST			**5**	**0.280**					**AP**	**0.070**	**2**	**0.072**	**3**	**0.112**									**10**	**0.534**
TOTAL PROCUREMENT		**3.249**		**0.280**						**0.484**		**0.495**		**0.112**										**4.620**

The total program quantity reflects the inventory objective for this item.

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

MODELS OF SYSTEMS AFFECTE **LHAs, LHDs and selected shore sites** MODIFICATION TITLE **AN/SPN-35A to -35B Upgrade (PN408)**

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATIO **AIT**
ADMINISTRATIVE LEADTIME: **2 Months** PRODUCTION LEADTIME: **11 Months**
CONTRACT DATES: FY 1997: **N/A** FY 1998: **N/A** FY 1999: **N/A**
DELIVERY DATE: FY 1997: **N/A** FY 1998: **11/99** FY 1999: **11/00**

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS			**5**	**0.280**																			**5**	**0.280**
FY 1995 EQUIPMENT																								
FY 1996 EQUIPMENT																								
FY 1997 EQUIPMENT																								
FY 1998 EQUIPMENT									**AP**	0.070	**2**	**0.072**											**2**	**0.072**
FY 1999 EQUIPMENT													**3**	**0.112**									**3**	**0.112**
FY 2000 EQUIPMENT																								
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
TO COMPLETE																								

INSTALLATION SCHEDULE:

	FY 96	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	**5**	0	0	0	0	0	0	0	0	**2**	0	0	0	3	0	0	0	**0**	0	0	0	**0**	0	0	0	0	0	0	0	0	**10**
Out	**5**	0	0	0	0	0	0	0	0	0	**1**	1	0	0	1	1	1	0	**0**	0	0	0	**0**	0	0	0	0	0	0	0	**10**

This is an in house build by NAWCAD St Inigoes.

BUDGET ITEM JUSTIFICATION SHEET P-40	DATE: February 1998
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY**	P-1 ITEM NOMENCLATURE **NATIONAL AIRSPACE SYSTEM (NAS) 284000**
Program Element for Code B Items: **0204696N**	Other Related Program Elements **0604504N**

	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	$0.0	B	$0.0	**$0.0**	**$2.2**	**$28.2**	**$36.6**	**$37.3**	**$60.1**	**$38.6**	**CONT**	**CONT**

DESCRIPTION:

The National Airspace System (NAS) modernization project upgrades the Navy's Air Traffic Control Systems at approach control facilities to coincide with the Federal Aviation Administration's (FAA) upgrade of the Civil Air Traffic Control System. Since the existing Department of Defense Air Traffic Control facilities will interface with the FAA's facilities, the military must maintain interoperability and retain vital special-use airspace for combat readiness training. These funds will procure Air Traffic Control hardware for the Joint Core Program.

The Air Force is the DoD lead activity for the Joint Acquisition Program. The Joint Program Office (JPO) is located at Hanscom AFB, MA.

FY98 provides funding to procure: 8 DoD Common Consoles.

FY99 provides funding to procure: 22 DoD Common Consoles; 1 Military Air Space Management System (MAMS) ; 3 Radars; 1 Tower Automation; and 4 Automation Systems.

Installing Agent: Alteration Installation Teams (AIT)
When installation to be made: N/A
Activities to receive equipment: Navy Core National Airspace System (NAS) sites.

CLASSIFICATION: **UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS
P-40a

DATE: **February 1998**

APPROPRIATION/BUDGET ACTIVITY
OTHER PROCUREMENT, NAVY

P-1 ITEM NOMENCLATURE
NATIONAL AIRSPACE SYSTEM (NAS) **284000**

Procurement Items	ID Code	Prior Years	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
DOD COMM CONSOLES	B											
QTY					**8**	**22**	**45**	**55**	**34**	**10**	**5**	**179**
FUNDING					**1.200**	**3.373**	**7.050**	**8.807**	**5.564**	**1.674**	**0.855**	**28.523**
MAMS	B											
QTY						**1**						**1**
FUNDING						2.066						**2.066**
RADARS	B											
QTY						**3**	**4**	**3**	**7**	**5**	**1**	**23**
FUNDING						14.116	19.235	14.744	38.296	25.766	**5.267**	**117.424**
TOWER AUTOMATION	B											
QTY						**1**	**3**	**4**	**3**	**4**	**2**	**17**
FUNDING						0.409	1.253	1.708	1.309	1.784	**0.912**	**7.375**
AUTOMATION SYSTEM	B											
QTY						**4**	**3**	**3**	**3**	**1**	**3**	**17**
FUNDING						6.132	4.700	4.804	4.909	1.672	**5.127**	**27.344**
OTHER COSTS					0.987	2.105	4.407	7.235	9.989	7.750	**CONT**	**CONT**
TOTAL FUNDING					2.187	28.201	36.645	37.298	60.067	38.646	**CONT**	**CONT**

P-1 SHOPPING LIST

CLASSIFICATION:

UNCLASSIFIED

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System		DATE: **February 1998**
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy**	ID Code **B**	P-1 ITEM NOMENCLATURE/SUBHEAD **NATIONAL AIRSPACE SYSTEM (NAS)**	**42CB**

COST CODE	ELEMENT OF COST	ID Code	Prior Years	FY 1996			FY 1997			FY 1998			FY 1999		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
CB010	DOD COMMON CONSOLES	B								8	150	1,200	22	153	3,373
CB020	MAMS	B											1	2,066	2,066
CB030	RADARS	B											3	4,705	14,116
CB040	TOWER AUTOMATION	B											1	409	409
CB050	AUTOMATION SYSTEMS	B											4	1,533	6,132
CB800	INTEGRATED LOGISTICS SUPPORT	N/A										287			400
CB830	PRODUCTION ENGINEERING	N/A										700			1,705
	NAS RDT&E entirely funded by Air Force														
			0			**0**			**0**			**2,187**			**28,201**

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

ITEM NO. PAGE NO. 3

UNCLASSIFIED

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A) | Weapon System | A. DATE **February 1998**

B. APPROPRIATION/BUDGET ACTIVITY: **Other Procurement, Navy** **BA2 - Communications and Electronics Equipment**

C. P-1 ITEM NOMENCLATURE: **NATIONAL AIRSPACE SYSTEM (NAS)**

SUBHEAD: **42CB**

Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
CB010 DOD COMMON CONSOLES										
FY98	8	150	FAA, WASH DC	1/96	C/FP	TBD	6/98	4/00	YES	
FY99	22	153	FAA, WASH DC	1/96	C/Option	TBD	12/98	12/00	YES	
CB020 MAMS										
FY99	1	2,066	AIRFORCE	1/98	C/FP	TBD	11/98	8/99	YES	
CB030 RADARS										
FY99	3	4,705	AIRFORCE	2/96	C/FP	TBD	12/98	12/00	YES	
CB040 TOWER AUTOMATION										
FY99	1	409	NAVAIR	2/96	C/FP	TBD	2/99	7/00	YES	
CB050 AUTOMATION SYSTEM										
FY99	4	1,533	FAA, WASH DC	3/96	C/FP	TBD	2/99	11/00	YES	

D. REMARKS

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: NAS TYPE MODIFICATION: SAFETY MODIFICATION TITLE: DOD COMMON CONSOLES (CB010)

DESCRIPTION/JUSTIFICATION:

The DoD Common Console is being developed as part of a joint DOD/FAA program to modernize and standardize air traffic control equipment in the National Air Traffic Control System. The consoles will be installed at Navy air traffic control facilities to replace aging, obsolete equipment and comply with the joint DOD/FAA modernization program agreements.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **MILESTONE III (JUNE 1998)**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																								
INSTALLATION KITS NONRECURRING																								
EQUIPMENT									8	1.200	22	3.373	45	7.050	55	8.807	34	5.564	10	1.674	5	0.855	179	28.523
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	30	0.320	45	0.655	43	0.502	61	1.113	179	2.590
TOTAL PROCUREMENT										1.200		3.373		7.050		9.127		6.219		2.176		1.968		31.113

The total Quantity reflects the inventory objective for this item.

CLASSIFICATION: **UNCLASSIFIED**

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

MODELS OF SYSTEMS AFFECTED: **NAS** MODIFICATION TITLE: DOD COMMON CONSOLES (CB010)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 9 MONTHS PRODUCTION LEADTIME: 22 MONTHS
CONTRACT DATES: FY 1997: N/A FY 1998: 06/98 FY 1999: 12/98
DELIVERY DATE: FY 1997: N/A FY 1998: 04/00 FY 1999: 12/00

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT															8	**0.080**							8	**0.080**
FY 1999 EQUIPMENT															22	**0.240**							22	**0.240**
FY 2000 EQUIPMENT																	45	**0.655**					45	**0.655**
FY 2001 EQUIPMENT																			43	**0.502**	12	**0.171**	55	**0.673**
FY 2002 EQUIPMENT																					34	**0.684**	34	**0.684**
FY 2003 EQUIPMENT																					10	**0.171**	10	**0.171**
TO COMPLETE																					5	0.087	5	**0.087**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	18	4	0	0	17	11	17	0	13	12	18	12	49	179
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	18	4	0	7	10	11	17	0	13	12	18	61	179

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: NAS TYPE MODIFICATION: SAFETY MODIFICATION TITLE: MAMS (CB020)

DESCRIPTION/JUSTIFICATION:

The Military Air Space Management System is being developed as part of a joint DOD/FAA program to standardize air traffic control scheduling across the National Air Traffic Control System. MAMS will comply with the Joint DOD/FAA modernization program agreements.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																							0	0.000
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT											1	2.066											1	2.066
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1	0.108	0	0.000	0	0.000	0	0.000	0	0.000	1	0.108
TOTAL PROCUREMENT		0.000		0.000		0.000		0.000		0.000		2.066		0.108		0.000		0.000		0.000		0.000		2.174

The total Quantity reflects the inventory objective for this item.

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

MODELS OF SYSTEMS AFFECTED: **NAS** MODIFICATION TITLE: MAMS (CB020)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 2 MONTHS PRODUCTION LEADTIME: 9 MONTHS
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: 11/98
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: 8/99

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT													1	**0.108**									1	**0.108**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																								**0.000**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: NAS TYPE MODIFICATION: SAFETY MODIFICATION TITLE: RADARS (CB030)

DESCRIPTION/JUSTIFICATION:

The Digital Airport Surveillance Radar is being developed as part of a joint DOD/FAA program to modernize and standardize air traffic control equipment in the National Air Traffic Control System. The DASR will be installed at Navy air traffic control facilities to replace aging, obsolete equipment and comply with the joint DOD/FAA modernization program agreements.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **MILESTONES III (JUNE 1998)**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																							0	0.000
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT											3	14.116	4	19.235	3	14.744	7	38.296	5	25.766	1	5.267	23	117.424
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.577	3	1.388	4	1.745	3	1.728	10	4.267	20	9.705
TOTAL PROCUREMENT												14.116		19.812		16.132		40.041		27.494		9.534		127.129

The total Quantity reflects the inventory objective for this item.

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

MODELS OF SYSTEMS AFFECTED: **NAS** MODIFICATION TITLE: RADARS (CB030)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 2 MONTHS PRODUCTION LEADTIME: 24 MONTHS
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: 12/98
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: 12/00

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT													AP	**0.577**	3	**0.534**							3	**1.111**
FY 2000 EQUIPMENT															AP	**0.854**	4	**1.090**					4	**1.944**
FY 2001 EQUIPMENT																	AP	**0.655**	3	**0.836**			3	**1.491**
FY 2002 EQUIPMENT																			AP	**0.892**	4	**2.280**	4	**3.172**
FY 2003 EQUIPMENT																					6	**1.987**	6	**1.987**
TO COMPLETE																								**0.000**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	2	1	1	0	2	1	0	0	13	23
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	1	1	1	1	0	1	1	1	10	20

Three Radar units procured in FY 02 are to be installed as turn key systems (included with the procurement cost) and are not reflected in the installation costs in the TC column.

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: NAS TYPE MODIFICATION: SAFETY MODIFICATION TITLE: TOWER AUTOMATION (CB040)

DESCRIPTION/JUSTIFICATION:

The Tower Automation is being developed as part of a joint DOD/FAA program to modernize and standardize air traffic control equipment in the National Air Traffic Control System. The Tower Automation will be installed at Navy air traffic control facilities to replace aging, obsolete equipment and comply with the joint DOD/FAA modernization program agreements.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **MILESTONE III (JUNE 1998)**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																							0	0.000
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT											1	0.409	3	1.253	4	1.708	3	1.309	4	1.784	2	0.912	17	7.375
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	4	0.320	4	0.655	3	0.502	6	1.033	17	2.510
TOTAL PROCUREMENT												0.409	0	1.253		2.028		1.964		2.286		1.945		9.885

The total Quantity reflects the inventory objective for this item.

CLASSIFICATION: **UNCLASSIFIED**

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

MODELS OF SYSTEMS AFFECTED: **NAS** MODIFICATION TITLE: TOWER AUTOMATION (CB040)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 4 MONTHS PRODUCTION LEADTIME: 17 MONTHS
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: 02/99
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: 07/00

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT															1	**0.080**							1	**0.080**
FY 2000 EQUIPMENT															3	**0.240**							3	**0.240**
FY 2001 EQUIPMENT																	4	**0.655**					4	**0.655**
FY 2002 EQUIPMENT																			3	**0.502**			3	**0.502**
FY 2003 EQUIPMENT																					4	**0.684**	4	**0.684**
TO COMPLETE																					2	**0.349**	2	**0.349**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	0	2	1	1	0	1	1	1	0	6	17
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	1	1	1	1	0	1	1	1	6	17

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: NAS TYPE MODIFICATION: SAFETY MODIFICATION TITLE: AUTOMATION SYSTEMS (CB050)

DESCRIPTION/JUSTIFICATION:

The Automation System is being developed as part of a joint DOD/FAA program to modernize and standardize air traffic control equipment in the National Air Traffic Control System. The Automation System will be installed at Navy air traffic control facilities to replace aging, obsolete equipment and comply with the joint DOD/FAA modernization program agreements.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **MILESTONE III (June 1998)**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																							0	0.000
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT											4	6.132	3	4.700	3	4.804	3	4.909	1	1.672	3	5.127	17	27.344
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.622	4	2.514	3	2.633	3	3.044	7	5.128	17	13.941
TOTAL PROCUREMENT												6.132		5.322		7.318		7.542		4.716		10.255		41.285

The total Quantity reflects the inventory objective for this item.

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

MODELS OF SYSTEMS AFFECTED: **NAS** MODIFICATION TITLE: AUTOMATION SYSTEMS (CB050)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 5 MONTHS PRODUCTION LEADTIME: 20 MONTHS
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: 02/99
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: 11/00

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT													AP	**0.622**	4	**0.961**							4	**1.583**
FY 2000 EQUIPMENT															AP	**1.553**	3	**1.422**					3	**2.975**
FY 2001 EQUIPMENT																	AP	**1.211**	3	**1.260**			3	**2.471**
FY 2002 EQUIPMENT																			AP	**1.784**	3	**2.051**	3	**3.835**
FY 2003 EQUIPMENT																					1	**0.980**	1	**0.980**
TO COMPLETE																					3	**2.097**	3	**2.097**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	2	1	0	0	2	1	0	0	7	17
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	0	1	1	1	0	1	1	1	0	7	17

CLASSIFICATION: **UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET P-40	DATE: February 1998
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY BA2 - Communications and Electronics Equipment**	P-1 ITEM NOMENCLATURE **TACTICAL AIR NAVIGATION (TACAN) 284300**
Program Element for Code B Items: **NOT APPLICABLE**	Other Related Program Elements **NOT APPLICABLE**

	Prior Years	ID Code	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY													
COST (In Millions)	$17.5	N/A	$1.0	$0.1	**$2.2**	**$0.0**	**$0.0**	**$0.0**	**$0.0**	**$0.0**	**$0.0**		

DESCRIPTION:

Tactical Air Navigation (TACAN), a short distance navigation equipment, is the primary navigation system used by Naval aircraft and the only system available for many tactical aircraft. The TACAN system is in use throughout the world. The U.S. Navy electronic navigation policy (as contained in JCS Master Navigation Plan NICS-0040-90 OF 8 January 90) states that the Navy will have a continuing requirement to perform theTACAN function, ashore through 2000 and afloat until a suitable replacement is developed. The requirement determinations are based on an inventory objective for replacement of obsolete equipments and ships availability.

Critical maintenance difficulties have arisen on existing TACAN equipments and replacements are required as soon as possible if Naval aircraft are to continue to employ this navigation aid. Current equipment in use is over thirty years old and parts availability has become critical.

FY96 and FY97 provide for installation of various TACAN equipments (AN/URN-25 Beacon Transmitters and Antenna OE-273A/URN) and various field change kits to replace obsolete units and/or correct critical maintenance difficulties.

Installing Agent: Shipyard
When installation to be made: ROH/RAV/SRA
Ship types to receive equipment: Auxillaries, CG/CGN, CV/CVN, DD, DDG, LPD, LLHA, LSD, LCC, FFG, FMA/TRNG, USCG

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System		DATE: **February 1998**
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy**	ID Code **N/A**	P-1 ITEM NOMENCLATURE/SUBHEAD **TACTICAL AIR NAVIGATION (TACAN) 42TH**	

COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS															
			Prior Years	FY 1995			FY 1996			FY 1997			FY 1998			FY 1999		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	VARIOUS		16,406															
TH800	ILS SUPPORT		162			60												
TH900	INSTALLATION OF EQUIPMENT (NONFMP)		901			151			28									
TH910	INSTALLATION OF EQUIPMENT (FMP)					806			30			2,214						
	The amount identified against the cost element "various" reflects total prior year funding assosciated with cost elements no longer financed in FY95 and beyond																	
			17,469			**1,017**			**58**			**2,214**			**0**			**0**

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

ITEM NO. 82 PAGE NO. 2

UNCLASSIFIED

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: LSD-36 Class TYPE MODIFICATION: Safety of Flight MODIFICATION TITLE: ANTENNA OE-273A(V)URN

DESCRIPTION/JUSTIFICATION:

Installation of Antenna group for AN/URN-25 TACAN to replace obsolete equipment

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

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.0
PROCUREMENT																								
INSTALLATION KITS																							0	0.000
INSTALLATION KITS - UNIT COST																								
INSTALLATION KITS NONRECURRING																								
EQUIPMENT	35	2.100																					35	2.100
EQUIPMENT NONRECURRING																							0	0.000
ENGINEERING CHANGE ORDERS																							0	0.000
DATA																							0	0.000
TRAINING EQUIPMENT																							0	0.000
SUPPORT EQUIPMENT																							0	0.000
OTHER																							0	0.000
OTHER																							0	0.000
OTHER																							0	0.000
INTERIM CONTRACTOR SUPPORT																							0	0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	5	0.125	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	5	0.125
TOTAL PROCUREMENT		2.100		0.000		0.000		0.125		0.000		0.000		0.000		0.000		0.000		0.000		0.000		2.225

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

MODELS OF SYSTEMS AFFECTED: **LSD-36 Class** MODIFICATION TITLE: ANTENNA OE-273A(V)URN

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: N/A Months PRODUCTION LEADTIME: N/A Months
CONTRACT DATES: FY 1997: **N/A** FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: **N/A** FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS							5	0.125															5	0.125
FY 1995 EQUIPMENT																							0	0.000
FY 1996 EQUIPMENT																							0	0.000
FY 1997 EQUIPMENT																							0	0.000
FY 1998 EQUIPMENT																							0	0.000
FY 1999 EQUIPMENT																							0	0.000
FY 2000 EQUIPMENT																							0	0.000
FY 2001 EQUIPMENT																							0	0.000
FY 2002 EQUIPMENT																							0	0.000
FY 2003 EQUIPMENT																							0	0.000
TO COMPLETE																							0	0.000

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	35	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	35
Out	0	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5

Note: 27 units excess to needs due to decommissionings after procurement, however these units will be kept in a rotatable pool, 3 units to US Coast Guard no installation costs per memo of agreement.

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: DDG63, DD993, AND LSD 36 CLASS TYPE MODIFICATION: SAFETY OF FLIGHT MODIFICATION TITLE: AN/URN-25 BEACON TRANSMITTERS

DESCRIPTION/JUSTIFICATION:

Installation of AN/URN-25 Beacon Transmitters procured prior to FY 90 to replace obsolete equipment.

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

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.0
PROCUREMENT																								
INSTALLATION KITS																							0	0.0
INSTALLATION KITS - UNIT COST																								
INSTALLATION KITS NONRECURRING																								0.0
EQUIPMENT	25	8.700																					25	8.7
EQUIPMENT NONRECURRING																								0.0
ENGINEERING CHANGE ORDERS																								0.0
DATA																								0.0
TRAINING EQUIPMENT																								0.0
SUPPORT EQUIPMENT																								0.0
OTHER																								0.0
OTHER																								0.0
OTHER																								0.0
INTERIM CONTRACTOR SUPPORT																								0.0
INSTALL COST	0	0.000	10	0.806	0	0.000	6	2.089	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	16	2.895
TOTAL PROCUREMENT		8.700		0.806		0.000		2.089		0.000		0.000		0.000		0.000		0.000		0.000		0.000		11.6

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

MODELS OF SYSTEMS AFFECTED: **DDG63,DD993, AND LSD 36 CLASSES** MODIFICATION TITLE: AN/URN-25 BEACON TRANSMITTERS

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: N/A Months PRODUCTION LEADTIME: N/A Months
CONTRACT DATES: FY 1997: **N/A** FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: **N/A** FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty		Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS			**10**	0.806			6	2.089															16	2.895
FY 1995 EQUIPMENT																							0	0.000
FY 1996 EQUIPMENT																							0	0.000
FY 1997 EQUIPMENT																							0	0.000
FY 1998 EQUIPMENT																							0	0.000
FY 1999 EQUIPMENT																							0	0.000
FY 2000 EQUIPMENT																							0	0.000
FY 2001 EQUIPMENT																							0	0.000
FY 2002 EQUIPMENT																							0	0.000
FY 2003 EQUIPMENT																							0	0.000
TO COMPLETE																							0	0.000

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Out	10	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16

5 Installs in FY97 are associated with installation of (previously procurred) ECP kits and cross-decking costs to LSD-36 class ships.
14 units excess to needs due to decommissionings after procurement, however these units will be kept in a rotatable pool.

CLASSIFICATION: **UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET P-40												DATE: February 1998
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY**							P-1 ITEM NOMENCLATURE **AIR STATION SUPPORT EQUIPMENT**					**NARM # 284500**
Program Element for Code B Items: **Not Applicable**							Other Related Program Elements **0204696N**					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	$73.1		$5.7	**$10.2**	**$9.2**	**$6.8**	**$7.3**	**$7.5**	**$7.6**	**$7.8**	**CONT**	**CONT**

DESCRIPTION:

The Naval Air Systems Command (NAVAIR) has an established requirement to provide shore based Air Traffic Control (ATC) terminal facilities and equipments many of which interface through automated means with the Federal Aviation Administration (FAA). Additionally, NAVAIR has material support responsibility for Air Navigation Aid Systems, Tactical Communications, Mobile Air Traffic Control Equipments, Special Instrumentation Systems, and Ancillary Equipment at Naval and Marine Corps Aviation Shore activities in the continental United States and overseas.

FY 96 through FY 99 funds procure or install:

(1) Operational Capability Improvement Request (OCIR) Modernization: The OCIR program provides for the procurement of communications and other electronic systems/equipment needed at Navy/Marine Air Traffic Control facilities. OCIR procurements replace and modernize economically unmaintainable systems and equipments in order to increase Air Traffic Control efficiency and safety.

(2) Visual Communications Control Systems (VISCOM) -- The VISCOM is a system of status lights connecting the Radar Air Traffic Controller in the control room with the ATC Tower controller. This system allows the transmission of aircraft position, configuration, and landing status (eg. touch and go or full stop) without the need of voice transmission. It is a safety of flight system as the light signals reduce background noise from the Tower environment while allowing the radar controller to dedicate his voice communications to the aircraft he is working. Additionally, these visual signals are recorded in digital format on facility tape recorders and provide additional background information in case of an aircraft incident or accident. Only a limited number of Naval/Marine Corps Air Facilities currently have a VISCOM type system and these existing systems are not standardized nor supported by a logistics chain. The new system will standardize all VISCOMs and provide a formalized Logistics Management System. Requirements assessment has determined that all Type III, IV, and V Air Stations require a VISCOM System.

(3) UHF/VHF Radios and Antennas provide ground to air communications. New radios, antenna, and antenna cables are to replace existing aged and deteriorated radios, antennas, and cables. For dependable ground to air communication, replacement of the existing radios and antenna system is imperative.

(4) Radar Air Traffic Control Facility/Direct Attitude & Identity Readout (RATCF/DAIR) Upgrade - This program upgrades low density (non approach control) air control and identification systems including video mappers, radar processing and radar indicator systems not included in the National Airspace System (NAS) modernization program.

(5) Communications Systems Upgrade - Advanced technology voice switching and recording/reproduction equipment which replaces existing FSA-58/OJ-314 voice communications switching systems and RD-379/379A/390 recorder/reproducers. The existing equipment is obsolete and beyond useful service life.

CLASSIFICATION: **UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS P-40a												DATE: February 1998
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY**							P-1 ITEM NOMENCLATURE **AIR STATION SUPPORT EQUIPMENT**					
Procurement Items	ID Code	Prior Years	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
MR404 UHF/VHF	N/A											
ANTENNA UPGRADE												
QTY		16	8	7	3							34
FUNDING		1.9	0.950	1.025	0.460							4.335
MR405 RATCF/DAIR	N/A											
UPGRADE												
QTY		17										17
FUNDING		1.188										1.188
MR407 UHF/VHF RADIO	N/A											
REPLACEMENT												
QTY		*	*	597	64	58	164	206	142	145	3029	4575
FUNDING		*	*	2.791	0.321	0.298	0.870	1.112	0.780	0.811	17.146	24.944
MR408 COMM SYS UPGR	N/A											
QTY				0	7	8	9	8	11	6		49
FUNDING				0.096	2.087	2.149	2.853	2.576	3.132	1.620		14.513
OTHER COST	N/A	69.937	4.763	6.274	6.359	4.329	3.615	3.801	3.721	5.382	CONT	CONT
TOTAL FUNDING		73.025	5.713	10.186	9.227	6.776	7.338	7.489	7.633	7.813	CONT	CONT

* FY95 ($166K Qty 35) and FY96 ($649K Qty 135) purchased equipment in the MR069 (ECPs/OCIRs) cost element.

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System	DATE: February 1998
APPROPRIATION/BUDGET ACTIVITY	ID C	P-1 ITEM NOMENCLATURE/SUBHEAD
Other Procurement, Navy	**BA2 - Communications and Electronics Equipment**	
		AIR STATION SUPPORT EQUIPMENT **42MR**

COST CODE	ELEMENT OF COST	ID Code	Prior Years		FY 1997			FY 1998			FY 1999		
			Total Cost		Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
MR069	ECPS/OCIRS	N/A			VAR		409	VAR		962	VAR		212
MR404	UHF/VHF ANTENNA UPGRADE	N/A	1,900		7	146	1,025	3	153	460			
MR405	RATCF/DAIR UPGRADE	N/A	1,188										
MR407	UHF/VHF RADIO REPLACEMENT	N/A			597	5	2,791	64	5	321	58	5	298
MR408	COMMUNICATION SYSTEM UPGRADE	N/A					96	7	298	2,087	8	269	2,149
MR800	INTEGRATED LOGISTICS SUPPORT	N/A	3,289				629			312			270
MR830	PRODUCTION ENGINEERING	N/A	7,427				1,937			1,538			653
MR900	INSTALLATION OF EQUIPMENT (NON-FMP)	N/A	10,761				3,099			3,252			2,919
MR990	INITIAL TRAINING	N/A					200			295			275
	VARIOUS 1/	N/A	47,840										
	1/ The amount identified against this cost element reflects total prior year funding associated with cost elements no longer financed in FY 1995 and beyond.												
			73,025				**10,186**			**9,227**			**6,776**

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

ITEM NO. 83 NO. 3

UNCLASSIFIED

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE February 1998
B. APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Navy — BA2 - Communications and Electronics Equipment	C. P-1 ITEM NOMENCLATURE: AIR STATION SUPPORT EQUIPMENT	SUBHEAD: 42MR

Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
MR404 UHF/VHF ANTENNA UPGR										
FY96	8	119	NISE EAST	08-95	SS/CPFF	RCI, INC. VIENNA, VA.	01/97	7/97	YES	
FY97	7	146	NISE EAST	08-95	SS/CPFF	RCI, INC. VIENNA, VA.	01/97	7/97	YES	
FY98	3	153	NISE EAST	08-95	SS/CPFF	RCI, INC. VIENNA, VA.	01/98	7/98	YES	
MR407 UHF/VHF RADIO REPLACEMENT										
FY97	597	5	FAA, WASH., D.C.	03-94	MIPR/ OPTION	MOTOROLA, PHOENIX, AZ.	12/96	6/97	YES	
FY98	64	5	FAA, WASH., D.C.	08-97	MIPR/FP	TBD	10/97	4/98	YES	
FY99	58	5	FAA, WASH., D.C.	08-97	MIPR/FP	TBD	10/98	4/99	YES	
MR408 COMM SYSTEM UPGRADE										
FY98	7	298	FAA, WASH., D.C.	02-95	MIPR/ OPTION	DENRO, GAITHERSBURG,MD	1/98	9/98	YES	
FY99	8	269	FAA, WASH., D.C.	02-95	MIPR/ OPTION	DENRO, GAITHERSBURG,MD	1/99	9/99	YES	

D. REMARKS

MR404 & MR408 - Equipment costs vary from site to site, therefore unit cost are not consistent.

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AIR STATION TYPE MODIFICATION: CAPABILITY IMPROVEMENT MODIFICATION TITLE: ECP/OCIR SUMMARY (MR069)

DESCRIPTION/JUSTIFICATION:

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

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								
PROCUREMENT																								
INSTALLATION KITS																								
INSTALLATION KITS - UNIT COST																								
INSTALLATION KITS NONRECURRING																								
EQUIPMENT		3.043		0.454		0.964		0.409		0.962		0.212		0.300		0.300		0.300		1.260	CONT	CONT	CONT	CONT
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST	0	1.300	0	0.750	0	0.367	0	0.472	0	0.860	0	0.223	0	0.045	0	0.045	0	0.045	0	0.545	CONT	CONT	CONT	CONT
TOTAL PROCUREMENT		4.343		1.204		1.331		0.881		1.822		0.435		0.345		0.345		0.345		1.805		CONT	CONT	CONT

The total Quantity reflects the inventory objective for this item.

*FY 95 is comprised of 454K shown on the P-3A for OCIR 9124 page 5D and $166K shown on the P-3A for UHF/VHF Radio Replacement (MR 407) page 5AB.

*FY 96 is comprised of 315K shown on the P-3A for VISCOM (MR100) page 5P and $649K shown on the P-3A for UHF/VHF Radio Replacement (MR407) page 5AB.

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

1

MODELS OF SYSTEMS AFFECTED: **AIR STATION** MODIFICATION TITLE: ECP/OCIR SUMMARY (MR069)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: MONTHS PRODUCTION LEADTIME: MONTHS
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS		**1.300**																					0	**1.300**
FY 1995 EQUIPMENT				**0.750**																			0	**0.750**
FY 1996 EQUIPMENT						**0.367**																	0	**0.367**
FY 1997 EQUIPMENT								**0.472**															0	**0.472**
FY 1998 EQUIPMENT										**0.860**													0	**0.860**
FY 1999 EQUIPMENT												**0.223**											0	**0.223**
FY 2000 EQUIPMENT														**0.045**									0	**0.045**
FY 2001 EQUIPMENT																**0.045**							0	**0.045**
FY 2002 EQUIPMENT																		**0.045**					0	**0.045**
FY 2003 EQUIPMENT																				**0.545**			0	**0.545**
TO COMPLETE																						**CONT**	0	**CONT**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AIR STATION

TYPE MODIFICATION: CAPABILITY IMPROVEMENT

MODIFICATION TITLE: ECP/OCIR AN/TPX-42A(V)10 RATCF DAIR SOFTWARE UPGRADE(MR069)

DESCRIPTION/JUSTIFICATION:

This ECP shall upgrade obsolete data general assembly language/software used with AN/TPX-42A(V)10 RATCF DAIR system with current state-of-the-art, higher order "C" programming language/software to minimize future operation and support costs.

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

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																								0.000
INSTALLATION KITS - UNIT COST																								0.000
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT									2	0.060													2	0.060
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	0	0.000	2	0.010	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	2	0.010
TOTAL PROCUREMENT		0.000		0.000		0.000		0.000		0.070		0.000		0.000		0.000		0.000		0.000		0.000		0.070

The total Quantity reflects the inventory objective for this item.

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

1

MODELS OF SYSTEMS AFFECTED: **AIR STATION** MODIFICATION TITLE: ECP/OCIR AN/TPX-42A(V)10 RATCF DAIR SOFTWARE UPGRADE (MR069)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 3 MONTHS PRODUCTION LEADTIME: 4 MONTHS
CONTRACT DATES: FY 1997: N/A FY 1998: 12/97 FY 1999: 12/98
DELIVERY DATE: FY 1997: N/A FY 1998: 04/98 FY 1999: 04/99

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT									2	**0.010**													2	**0.010**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Out	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AIR STATION

TYPE MODIFICATION: CAPABILITY IMPROVEMENT

MODIFICATION TITLE: OCIR 9125 AIR STATION LIGHTING CONTROL PANEL UPGRADE AN/FSN-7 (MR069)

DESCRIPTION/JUSTIFICATION:

Provides state of the art lighting control panel system to allow remote control of air field/runway lighting system from air tower.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **NDI**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																								0.000
INSTALLATION KITS - UNIT COST																								0.000
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT	20	0.360	25	0.454																			45	0.814
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	20	0.200	25	0.250	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	45	0.450
TOTAL PROCUREMENT		0.560		0.704		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		1.264

The total Quantity reflects the inventory objective for this item.

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

1

MODELS OF SYSTEMS AFFECTED: **AIR STATION** MODIFICATION TITLE: OCIR 9125 AIR STATION LIGHTING CONTROL PANEL UPGRADE (MR069)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: N/A PRODUCTION LEADTIME: N/A
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS	**20**	**0.200**																					20	**0.200**
FY 1995 EQUIPMENT			**25**	**0.250**																			25	**0.250**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	45	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	45
Out	45	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	45

P-3A

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AIR STATION

TYPE MODIFICATION: CAPABILITY IMPROVEMENT

MODIFICATION TITLE: OCIR 9507 VIDEO MAPPER UPGRADE (MR069)

DESCRIPTION/JUSTIFICATION:

This OCIR will replace the FA-8970 video mapper unit, which still uses vacuum tubes, with an improved state of the art digital system.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **NDI**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																								0.000
INSTALLATION KITS - UNIT COST																								0.000
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT							4	0.173	24	0.559	9	0.212											37	0.944
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	4	0.051	24	0.235	9	0.090	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	37	0.376
TOTAL PROCUREMENT		0.000		0.000		0.000		0.224		0.794		0.302		0.000		0.000		0.000		0.000		0.000		1.320

The total Quantity reflects the inventory objective for this item.

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

1

MODELS OF SYSTEMS AFFECTED: **AIR STATION** MODIFICATION TITLE: OCIR 9507 VIDEO MAPPER UPGRADE (MR069)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 3 MONTHS PRODUCTION LEADTIME: 4 MONTHS
CONTRACT DATES: FY 1997: 09/97 FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: 09/97 FY 1998: 04/98 FY 1999: 04/99

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT							4	**0.051**															4	**0.051**
FY 1998 EQUIPMENT									24	**0.235**													24	**0.235**
FY 1999 EQUIPMENT											9	**0.090**											9	**0.090**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	4	0	0	24	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Out	0	0	0	0	0	4	0	12	12	0	0	4	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37

AP = Advanced Planning

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AIR STATION

TYPE MODIFICATION: CAPABILITY IMPROVEMENT

MODIFICATION TITLE: OCIR 9601 VHF/UHF EMERG COMM SYS UPGRADE AN/FSC-104(V) (MR069)

DESCRIPTION/JUSTIFICATION:

Installs new and improved AN/FSC-104(V) emergency communication radio systems at MCAS Iwakuni and MCAF Kaneohe in FY 98 and NAVTA Mayport, MCAS New River, FY 99.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **FIELDED**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																							0	0.000
INSTALLATION KITS - UNIT COST																								
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT	38	2.683																					38	2.683
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	20	1.100	8	0.500	5	0.367	1	0.212	2	0.345	2	0.133	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	38	2.657
TOTAL PROCUREMENT		3.783		0.500		0.367		0.212		0.345		0.133		0.000		0.000		0.000		0.000		0.000		5.340

The total Quantity reflects the inventory objective for this item.

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

1

MODELS OF SYSTEMS AFFECTED: **AIR STATION** MODIFICATION TITLE: OCIR 9601 VHF/UHF Emergency Communication System Upgrade AN/FSC-104(V) Standard ECS (MR069)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: N/A PRODUCTION LEADTIME: N/A
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS	**20**	**1.100**																					20	**1.100**
FY 1995 EQUIPMENT			**8**	**0.500**																			8	**0.500**
FY 1996 EQUIPMENT					5	**0.367**																	5	**0.367**
FY 1997 EQUIPMENT							1	**0.212**															1	**0.212**
FY 1998 EQUIPMENT									2	**0.345**													2	**0.345**
FY 1999 EQUIPMENT											2	**0.133**											2	**0.133**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	38	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	38
Out	33	0	1	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AIR STATION

TYPE MODIFICATION: CAPABILITY IMPROVEMENT

MODIFICATION TITLE: OCIR 9606 REPLACE OBSOLETE RADIO/TELEVISION MICROWAVE LINK (MR069)

DESCRIPTION/JUSTIFICATION:

This OCIR will provide a state of the art video compression data link system to replace obsolete radio/television microwave links used for ATC applications at Navy/Marine Corps Air Stations.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **NDI**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																							0	0.000
INSTALLATION KITS - UNIT COST																								
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT									1	0.130									3	0.450	8	1.200	12	1.780
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	0	0.000	1	0.090	0	0.000	0	0.000	0	0.000	0	0.000	3	0.225	8	0.600	12	0.915
TOTAL PROCUREMENT		0.000		0.000		0.000		0.000		0.220		0.000		0.000		0.000		0.000		0.675		1.800		2.695

The total Quantity reflects the inventory objective for this item.

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

MODELS OF SYSTEMS AFFECTED: **AIR STATION** MODIFICATION TITLE: OCIR 9606 REPLACE OBSOLETE RADIO/TELEVISION MICROWAVE LINK (MR069)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 3 MONTHS PRODUCTION LEADTIME: 4 MONTHS
CONTRACT DATES: FY 1997: N/A FY 1998: 12/97 FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: 04/98 FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT									1	**0.090**													1	**0.090**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																			3	**0.225**			3	**0.225**
TO COMPLETE																					8	**0.600**	8	**0.600**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	8	12
Out	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	8	12

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AIR STATION

TYPE MODIFICATION: CAPABILITY IMPROVEMENT

MODIFICATION TITLE: OCIR 9616 FIBER OPTIC INTERSITE SYSTEM INSTALL (MR069)

DESCRIPTION/JUSTIFICATION:

Provides AN/GPN-27(ASR-8) with state of the art fiber optic interface system at NAS PT. MUGU and NAS San Clemente.

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

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																								0.000
INSTALLATION KITS - UNIT COST																								0.000
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT							2	0.236	1	0.135													3	0.371
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	2	0.209	1	0.150	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	3	0.359
TOTAL PROCUREMENT		0.000		0.000		0.000		0.445		0.285		0.000		0.000		0.000		0.000		0.000		0.000		0.730

The total Quantity reflects the inventory objective for this item.

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

1

MODELS OF SYSTEMS AFFECTED: **AIR STATION** MODIFICATION TITLE: OCIR 9616 FIBER OPTIC INTERSITE SYSTEM INSTALL (MR069)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 3 MONTHS PRODUCTION LEADTIME: 4 MONTHS
CONTRACT DATES: FY 1997: 12/96 FY 1998: 12/97 FY 1999: N/A
DELIVERY DATE: FY 1997: 04/97 FY 1998: 04/98 FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT							2	**0.209**	1	**0.150**													3	**0.359**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Out	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AIR STATION

TYPE MODIFICATION: CAPABILITY IMPROVEMENT

MODIFICATION TITLE: ECP/OCIR BEACON TARGET EXTRACTOR (BTE) UPGRADE

DESCRIPTION/JUSTIFICATION:

This ECP/OCIR will upgrade the beacon target extractor (BTE-2000) used at NAF Sigonella, Italy to the current BTE production configuration.

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

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																								0.000
INSTALLATION KITS - UNIT COST																								0.000
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT									1	0.078													1	0.078
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	0	0.000	1	0.030	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1	0.030
TOTAL PROCUREMENT		0.000		0.000		0.000		0.000		0.108		0.000		0.000		0.000		0.000		0.000		0.000		0.108

The total Quantity reflects the inventory objective for this item.

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

1

MODELS OF SYSTEMS AFFECTED: **AIR STATION** MODIFICATION TITLE: ECP/OCIR BEACON TARGET EXTRACTOR (BTE) UPGRADE

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 3 MONTHS PRODUCTION LEADTIME: 4 MONTHS
CONTRACT DATES: FY 1997: N/A FY 1998: 12/97 FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: 04/98 FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT									1	0.030													1	**0.030**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Out	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AIR STATION TYPE MODIFICATION: CAPABILITY IMPROVEMENT MODIFICATION TITLE: VISCOM (MR100)

DESCRIPTION/JUSTIFICATION:

The VISCOM is a system of status lights connecting the radar air traffic controller in the control room with the ATC lower controller. This system allows the transmission of aircraft position, configuration and landing status (e.g. touch and go or full stop) without the need for voice transmission. It is safety of flight system as the light signals reduce background noise from the lower environment while allowing the radar comptroller to dedicate his voice communications to the aircraft he is working. Additionally, these visual signals are recorded in digital format on facility tape recorders and provide additional background information in case of an aircraft incident or standarize all VISCOMS and provide a formalized logistics management system. Requirements assessment has determined that all Type III, IV, and V air stations require a VISCOM system.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **FIELDED**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																							0	0.000
INSTALLATION KITS - UNIT COST																								
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT	39	4.500			3	0.315																	42	4.815
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	29	1.000	0	0.000	9	0.461	4	0.167	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	42	1.628
TOTAL PROCUREMENT		5.500		0.000		0.776		0.167		0.000		0.000		0.000		0.000		0.000		0.000		0.000		6.443

* FY96 equipment purchased in the MR069 (ECPs/OCIRs) cost element.

The total Quantity reflects the inventory objective for this item.

CLASSIFICATION: **UNCLASSIFIED**

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

MODELS OF SYSTEMS AFFECTED: **AIR STATION** MODIFICATION TITLE: VISCOM (MR100)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: N/A PRODUCTION LEADTIME: N/A
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS	**29**	**1.000**			9	**0.461**	1	**0.042**															39	**1.503**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT							3	**0.125**															3	**0.125**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	39	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Out	38	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AIR STATION

TYPE MODIFICATION: RELIABILITY/MAINTAINABILITY

MODIFICATION TITLE: UHF/VHF ANTENNA UPGRADE (MR404)

DESCRIPTION/JUSTIFICATION:

UHF/VHF antennas provide ground to air communication. New antenna cables are required to replace existing aged and deteriorated antennas and cables for dependable ground to air communication. Replacement of the antennas is imperative.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **NDI**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																								0.000
INSTALLATION KITS - UNIT COST																								0.000
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT	9	0.900	7	1.000	8	0.950	7	1.025	3	0.460													34	4.335
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	9	1.000	2	0.265	5	1.160	8	1.000	7	0.950	3	0.610	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	34	4.985
TOTAL PROCUREMENT		1.900		1.265		2.110		2.025		1.410		0.610		0.000		0.000		0.000		0.000		0.000		9.320

MR404 - Equipment costs vary from site to site, therefore unit cost are not consistent.

The total Quantity reflects the inventory objective for this item.

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: **AIR STATION**

MODIFICATION TITLE: UHF/VHF ANTENNA UPGRADE (MR404)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 4 MONTHS
PRODUCTION LEADTIME: 6 MONTHS
CONTRACT DATES: FY 1997: 1/97 FY 1998: 1/98 FY 1999: N/A
DELIVERY DATE: FY 1997: 7/97 FY 1998: 7/98 FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS	**9**	**1.000**																					9	**1.000**
FY 1995 EQUIPMENT			**2**	**0.265**	5	**1.160**																	7	**1.425**
FY 1996 EQUIPMENT							8	**1.000**															8	**1.000**
FY 1997 EQUIPMENT									7	**0.950**													7	**0.950**
FY 1998 EQUIPMENT											3	**0.610**											3	**0.610**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	24	0	0	0	7	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Out	16	1	3	3	1	1	3	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34

Install costs vary from site to site, therefore unit costs are not consistent.

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AIR STATION TYPE MODIFICATION: RELIABILITY IMPROVEMENT MODIFICATION TITLE: RATCF/DAIR UPGRADE (MR405)

DESCRIPTION/JUSTIFICATION:

This program upgrades air traffic control and identification systems including video mappers, radar processing and radar indicator systems not included in the National Airspace Sysem (NAS) modernization program.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **FIELDED**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																								0.000
INSTALLATION KITS - UNIT COST																								0.000
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT	6	0.451	11	0.737																			17	1.188
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	7	0.408	2	0.142	8	0.480	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	17	1.030
TOTAL PROCUREMENT		0.451		1.145		0.142		0.480		0.000		0.000		0.000		0.000		0.000		0.000		0.000		2.218

The total Quantity reflects the inventory objective for this item.

CLASSIFICATION: **UNCLASSIFIED**

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

MODELS OF SYSTEMS AFFECTED: **AIR STATION** MODIFICATION TITLE: RATCF/DAIR UPGRADE (MR405)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: N/A PRODUCTION LEADTIME: N/A
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS			**6**	**0.348**																			6	**0.348**
FY 1995 EQUIPMENT			**1**	**0.060**	2	**0.142**	8	**0.480**															11	**0.682**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	17	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	17
Out	9	1	2	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AIR STATION

TYPE MODIFICATION: OPERATION IMPROVEMENT

MODIFICATION TITLE: AUTOMATED SURFACE OBSERVATION SYSTEM (ASOS) UPGRADE (MR406)

DESCRIPTION/JUSTIFICATION:

ASOS will provide a sensor system for taking weather observations. The Navy must provide an interface between the SOS and the air traffic control position displays.

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

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																							0	0.000
INSTALLATION KITS - UNIT COST																								0.000
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT	51	0.433																					51	0.433
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	11	0.480	0	0.000	0	0.000	40	0.276	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	51	0.480
TOTAL PROCUREMENT		0.913		0.000		0.000		0.276		0.000		0.000		0.000		0.000		0.000		0.000		0.000		1.189

The total Quantity reflects the inventory objective for this item.

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

MODELS OF SYSTEMS AFFECTED: **AIR STATION** MODIFICATION TITLE: AUTOMATED SURFACE OBSERVATION SYSTEM (ASOS) UPGRADE (MR406)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: N/A PRODUCTION LEADTIME: N/A
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS	**11**	**0.480**					40	**0.276**															51	**0.480**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	51	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	51
Out	11	10	10	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AIR STATION TYPE MODIFICATION: OPERATION IMPROVEMENT MODIFICATION TITLE: IVCSS (MR047)

DESCRIPTION/JUSTIFICATION:

The integrated Voice Communications Switching System (IVCSS) is a Non-developmental Item (NDI) acquisition developed from a commercially available system to replace the obsolete AN/FSA-52 (V) communications switch.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **NDI**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																								0.000
INSTALLATION KIT - UNIT COST																								0.000
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT	15	10.125																					15	10.125
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	8	2.700	0	0.000	1	0.220	1	0.200	3	0.845	2	0.544	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	15	4.509
TOTAL PROCUREMENT		12.825		0.000		0.220		0.200		0.845		0.544		0.000		0.000		0.000		0.000		0.000		14.634

The total Quantity reflects the inventory objective for this item.

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

MODELS OF SYSTEMS AFFECTED: **AIR STATION** MODIFICATION TITLE: IVCSS (MR047)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: N/A PRODUCTION LEADTIME: N/A
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS	**8**	**2.700**			1	**0.220**	1	**0.200**	3	**0.845**	2	**0.544**											15	**4.509**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	15	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	15
Out	9	0	0	1	0	0	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AIR STATION TYPE MODIFICATION: RELIABILITY/MAINTAINABILITY MODIFICATION TITLE: COMMUNICATION SYSTEM UPGRADE (MR408)

DESCRIPTION/JUSTIFICATION:

Communications Systems Upgrade - Advanced technology voice switching and recording/reproducing equipment which replaces existing FSA-58/OJ-314 voice communications switching systems and RD-379/379A/390 recorder/reproducers. The existing equipment is obsolete and beyond useful service life.
*Note - New recorder/reproducers will be procured and installed to replace RD-379/379A/390 units at all Navy/Marine Corps Air Stations, two new recorder/reproducers will be required per comm. upgrade.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **COMMERCIAL OFF THE SHELF (COTS) SYSTEM**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																							0	0.000
INSTALLATION KITS - UNIT COST																								0.000
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT							0	0.096	7	2.087	8	2.149	9	2.853	8	2.576	11	3.132	6	1.620			49	14.513
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	0	0.204	0	0.443	7	1.497	8	1.925	9	2.154	8	1.967	8	1.931	9	1.478	49	11.599
TOTAL PROCUREMENT		0.000		0.000		0.000		0.300		2.530		3.646		4.778		4.730		5.099		3.551		1.478		26.112

The total Quantity reflects the inventory objective for this item.

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

MODELS OF SYSTEMS AFFECTED: **AIR STATION** MODIFICATION TITLE: COMMUNICATION SYSTEM UPGRADE (MR408)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 4 MONTHS PRODUCTION LEADTIME: 8 MONTHS
CONTRACT DATES: FY 1997: N/A FY 1998: 1/98 FY 1999: 1/99
DELIVERY DATE: FY 1997: N/A FY 1998: 9/98 FY 1999: 9/99

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT								**0.204**		**0.443**	7	**1.497**											7	**2.144**
FY 1999 EQUIPMENT													8	**1.925**									8	**1.925**
FY 2000 EQUIPMENT															9	**2.154**							9	**2.154**
FY 2001 EQUIPMENT																	8	**1.967**					8	**1.967**
FY 2002 EQUIPMENT																			8	**1.931**			8	**1.931**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																					9	**1.478**	9	**1.478**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	0	7	0	0	0	8	0	0	0	9	0	0	0	8	0	0	0	11	0	0	0	6	0	49
Out	0	0	0	0	0	0	0	0	0	1	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	9	49

NOTE: FY 97 & FY 98 funds for install preparation and site surveys. Equipment costs and install effort varies from site to site.

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AIR STATION

TYPE MODIFICATION: RELIABILITY/MAINTAINABILITY

MODIFICATION TITLE: UHF/VHF RADIO REPLACEMENT (MR407)

DESCRIPTION/JUSTIFICATION:

UHF/VHF Radios provide ground air communications. New radios are required to replace existing aged and deteriorated radios. For dependable ground air communication, replacement of the existing radios is imperative.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **COTS**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																							0	0.000
INSTALLATION KITS - UNIT COST																								0.000
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT			35	0.166	135	0.649	597	2.791	64	0.321	58	0.298	164	0.870	206	1.112	142	0.780	145	0.811	3029	17.146	4575	24.944
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	35	0.023	535	0.300	261	0.154	58	0.045	164	0.100	206	0.130	142	0.090	145	0.100	3029	1.880	4575	2.822
TOTAL PROCUREMENT		0.000		0.166		0.672		3.091		0.475		0.343		0.970		1.242		0.870		0.911		19.026		27.766

* FY95 and FY96 purchased equipment in the MR069 (ECPs/OCIRs) cost element.

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: **AIR STATION**

MODIFICATION TITLE: UHF/VHF RADIO REPLACEMENT (MR407)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 3 MONTHS
PRODUCTION LEADTIME: 6 MONTHS
CONTRACT DATES: FY 1997: 12/96 FY 1998: N/A FY 1999: 1/99
DELIVERY DATE: FY 1997: 6/97 FY 1998: N/A FY 1999: 6/99

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT					35	**0.023**																	35	**0.023**
FY 1996 EQUIPMENT							135	**0.075**															135	**0.075**
FY 1997 EQUIPMENT							400	**0.225**	197	**0.110**													597	**0.335**
FY 1998 EQUIPMENT									64	**0.044**													64	**0.044**
FY 1999 EQUIPMENT											58	**0.045**											58	**0.045**
FY 2000 EQUIPMENT													164	**0.100**									164	**0.100**
FY 2001 EQUIPMENT															206	**0.130**							206	**0.130**
FY 2002 EQUIPMENT																	142	**0.090**					142	**0.090**
FY 2003 EQUIPMENT																			145	**0.100**			145	**0.100**
TO COMPLETE																					3029	**1.880**	3029	**1.880**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	170	0	0	400	0	197	0	64	0	0	0	58	0	0	0	164	0	0	0	206	0	0	0	142	0	0	0	145	0	3029	4575
Out	35	135	0	200	200	0	97	100	64	0	0	0	58	0	0	82	82	0	0	103	103	0	0	71	71	0	0	70	75	3029	4575

BUDGET ITEM JUSTIFICATION SHEET P-40	DATE: **February 1998**
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY**	P-1 ITEM NOMENCLATURE **Landing Systems (LS)** **NARM# 284600**
Program Element for Code B Items:	Other Related Program Elements **Not Applicable**

	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	$8.5		$0.5	**$6.2**	**$5.2**	**$5.2**	**$5.4**	**$5.5**	**$5.6**	**$5.7**	**CONT**	**CONT**

DESCRIPTION:

The Differential Global Positioning System (DGPS) is a joint (DOD/DOT) program. Its goal is the development and acquisition of a common civil/military precision landing system which will overcome the limitations of existing systems. The DGPS will replace the Instrument Landing System (ILS) and Precision Approach Radar (PAR) as a standard civil landing system and will fulfill interservice precision landing system interoperability requirements in the National Airspace System Plan (NASP), the Federal Radio Navigation Plan (FRP), and the Joint Chiefs of Staff (JCS) master navigation plan. DGPS eliminates the errors the Department of Defense induces in signals from an orbiting constellation of 24 GPS satellites by placing a DGPS station at a known, surveyed location. This station corrects the errors in the downlink GPS signal and transmits this information to nearby aircraft. By placing the DGPS station at Naval Air Stations position accuracies can be obtained by onboard aircraft navigation processors that met the standards required for precision approach and landing operations.

FY 96 provides funding to: Install AN/FPN-64 upgrades procured in prior years.

FY 97 provides funding to: Procure 7 Environmental Shelters for the AN/FPN-63 and procure miscellaneous mission enhancements for selected sites.

FY 98 provides funding to: Procure 10 Environmental Shelters for the AN/FPN-63 and procure miscellaneous mission enhancements for selected sites.

FY 99 provides funding to: Procur 10 Environmental Shelters for the AN/FPN-63 and procure miscellaneous mission enhancements for selected sites.

Installing agent: Naval Command, Control, and Ocean Surveillance Center ISE San Diego, CA
When installation is to be made: On delivery
Facilities that are to receive the equipment: Navy and Marine Corps air traffic control facilities

CLASSIFICATION: **UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS P-40a									DATE: **February 1998**			
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY**							P-1 ITEM NOMENCLATURE **Landing Systems (LS)**					
Procurement Items	ID Code	Prior Years	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
AN/FPN63 Shelter U/G	N/A											
Qty				**7**	**10**	**10**	**5**					32
Funding				**971**	**1,378**	**1,407**	**718**					**4,474**
Diff Global Pos Sys	N/A											
Qty							4	6	6	6	22	44
Funding							2060	3156	3228	3306	12782	**24,532**
Other Costs		8547	483	5250	3809	3842	2590	2313	2337	2374	CONT	CONT
Total Funding		8547	483	6221	5187	5249	5368	5469	5565	5680	CONT	CONT

P-1 SHOPPING LIST

CLASSIFICATION:

DD Form 2454, JUN 86

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UNCLASSIFIED

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System	DATE: **February 1998**
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy**	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD **LANDING SYSTEMS (LS) 42X1**

COST CODE	ELEMENT OF COST	ID Code	Prior Years	FY 1996			FY 1997			FY 1998			FY 1999		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
X1017	OCIR/ECP	N/A					VAR		684	VAR		296	VAR		872
X1020	ENVIRONMENTAL SHELTERS	N/A					7	135	971	10	138	1,378	10	141	1,407
X1800	INTEGRATED LOGISTICS SUPPORT								129			198			554
X1830	PRODUCTION ENGINEERING								1,590			523			500
X1840	QUALITY ASSSURANCE								41			47			80
X1900	INSTALLATION (NON-FMP)		1100			483			2,806			2,745			1,836
	*VARIOUS		7,447												
	* The amount identified against this cost element reflects total prior year funding associated with cost elements no longer financed in FY 1995 and beyond.														
			8,547			**483**			**6,221**			**5,187**			**5,249**

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

ITEM NO. PAGE NO. 3

UNCLASSIFIED

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE February 1998
B. APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Navy — BA2 - Communications and Electronics Equipment	C. P-1 ITEM NOMENCLATURE: LANDING SYSTEMS (L	SUBHEAD: 42X1

Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
X1020 ENVIRONMENTAL SHELTERS FY97	7	135	SPAWARSYSCEN SAN DIEGO, CA	Feb-97	PO	SPAWARSYSCEN SAN DIEGO, CA	5/97	1/98	YES	
FY98	10	138	SPAWARSYSCEN SAN DIEGO, CA	Feb-98	PO	SPAWARSYSCEN SAN DIEGO, CA	5/98	1/99	YES	
FY99	10	141	SPAWARSYSCEN SAN DIEGO, CA	Feb-99	PO	SPAWARSYSCEN SAN DIEGO, CA	5/99	1/00	YES	

D. REMARKS

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: Landing Systems TYPE MODIFICATION: Operational Capability Improvement MODIFICATION TITLE: OCIR/ECP SUMMARY (X1017)

DESCRIPTION/JUSTIFICATION:

Purchase preplanned improvements to Navy Automatic Landing System.

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

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																							0	0.000
INSTALLATION KITS UNIT COST																								0.000
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT								0.684		0.296		0.872		0.445		0.455		0.465		0.476			0	3.693
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.112	0	0.845	0	0.052	0	0.053	0	0.053	0	0.054	0	0.000	0	1.169
TOTAL PROCUREMENT		0.000		0.000		0.000		0.684		0.408		1.717		0.497		0.508		0.518		0.530		0.000		4.862

The total Quantity reflects the inventory objective for this item.

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: Landing Systems

MODIFICATION TITLE: OCIR /ECP SUMMARY (X1017)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: AIT
ADMINISTRATIVE LEADTIME: Months
PRODUCTION LEADTIME: Months
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT										**0.112**		**0.260**											0	**0.372**
FY 1998 EQUIPMENT												**0.500**											0	**0.500**
FY 1999 EQUIPMENT												**0.085**											0	**0.085**
FY 2000 EQUIPMENT														**0.052**									0	**0.052**
FY 2001 EQUIPMENT																**0.053**							0	**0.053**
FY 2002 EQUIPMENT																		**0.053**					0	**0.053**
FY 2003 EQUIPMENT																				**0.054**			0	**0.054**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: Landing Systems

TYPE MODIFICATION: Operational Capability Improvement

MODIFICATION TITLE: OCIR /ECP Automatic Landing System Improvement

DESCRIPTION/JUSTIFICATION:

Purchase preplanned improvements to Navy Automatic Landing System.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **NDI/COTS**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																							0	0.000
INSTALLATION KITS UNIT COST																								0.000
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT							18	0.446															18	0.446
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	0	0.000	5	0.100	13	0.260	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	18	0.360
TOTAL PROCUREMENT		0.000		0.000		0.000		0.446		0.100		0.260		0.000		0.000		0.000		0.000		0.000		0.806

The total Quantity reflects the inventory objective for this item.

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: Landing Systems

MODIFICATION TITLE: OCIR /ECP Automatic Landing System Improvements

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: AIT
ADMINISTRATIVE LEADTIME: 9 Months
PRODUCTION LEADTIME: 9 Months
CONTRACT DATES: FY 1997: 7/97 FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: 4/98 FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT									5	**0.100**	13	**0.260**											18	**0.360**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	2	3	0	5	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Out	0	0	0	0	0	0	0	0	5	0	5	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: Landing Systems TYPE MODIFICATION: Operational Capability Improvement MODIFICATION TITLE: OCIR 9605

DESCRIPTION/JUSTIFICATION:

The OCIR program provides the procurement of numerous relatively minor equipment/instrumentation needed at all Navy and Marine Corps air traffic control facilities. OCIR procurements replace and modernize economically unmaintainable systems and equipment in order to increase air traffic control efficiency and safety. NAS North Island requirement to have capability of simultaneously controlling fixed wing and rotary wing aircraft on diffierent approach (azimuth) corridors was approved by CNO and has reportedly been subject of congressional interest.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: N/A

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS							1	0.238															1	0.238
INSTALLATION KITS UNIT COST								0.238																0.000
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT																								0.000
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	0	0.000	1	0.012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000			1	0.012
TOTAL PROCUREMENT		0.000		0.000		0.000		0.238		0.012		0.000		0.000		0.000		0.000		0.000		0.000		0.250

The total Quantity reflects the inventory objective for this item.

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: Landing Systems

MODIFICATION TITLE: OCIR 9605

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: AIT
ADMINISTRATIVE LEADTIME: 9 Months
PRODUCTION LEADTIME: 7 Months
CONTRACT DATES: FY 1997: 7/97 FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: 2/98 FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT									1	**0.012**													1	**0.012**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	1	0	0	0	1	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0	1	0	0	1	8
Out	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0	1	0	1	8

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: Landing Systems TYPE MODIFICATION: Operational Capability Improvement MODIFICATION TITLE: OCIR 9220

DESCRIPTION/JUSTIFICATION:

The OCIR program provides the procurement of numerous relatively minor equipment/instrumentation needed at all Navy and Marine Corps air traffic control facilities. OCIR procurements replace and modernize economically unmaintainable systems and equipment in order to increase air traffic control efficiency and safety. The long standing need to enable aircraft to navigate to and from NALFs Fentress and Joe Williams during periods of inclement weather will be enabled by completion of OCIRs 9220 and 9602.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: N/A

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS									2	0.296													2	0.296
INSTALLATION KITS UNIT COST										0.148														0.000
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT																								0.000
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	2	0.500	0	0.000	0	0.000	0	0.000	0	0.000			2	0.500
TOTAL PROCUREMENT		0.000		0.000		0.000		0.000		0.296		0.500		0.000		0.000		0.000		0.000		0.000		0.796

The total Quantity reflects the inventory objective for this item.

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: Landing Systems

MODIFICATION TITLE: OCIR 9220

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: AIT
ADMINISTRATIVE LEADTIME: 4 Months
PRODUCTION LEADTIME: 3 Months
CONTRACT DATES: FY 1997: N/A FY 1998: 2/98 FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: 5/98 FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	0.000
FY 1998 EQUIPMENT											2	**0.500**											2	**0.500**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Out	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: Landing Systems TYPE MODIFICATION: Operational Capability Improvement MODIFICATION TITLE: OCIR 9606

DESCRIPTION/JUSTIFICATION:

The OCIR program provides the procurement of numerous relatively minor equipment/instrumentation needed at all Navy and Marine Corps air traffic control facilities. OCIR procurements replace and modernize economically unmaintainable systems and equipment in order to increase air traffic control efficiency and safety. Support of the aging ASR-8 Surveillance Radar Microlink System has become increasingly difficult due to near non-existent vendor support. Systems are frequently forced to operate without built-in-redundancy awaiting repair parts. Replacement of these components at each of the user air fields will serve to enhance both safety and the capability for more effective control of airborne traffic.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: N/A

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS											2	0.872	1	0.445	1	0.455	1	0.465	1	0.476			6	2.713
INSTALLATION KITS UNIT COST												0.436		0.445		0.455		0.465		0.476				0.000
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT																								0.000
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	2	0.085	1	0.052	1	0.053	1	0.053	1	0.054			6	0.297
TOTAL PROCUREMENT		0.000		0.000		0.000		0.000		0.000		0.957		0.497		0.508		0.518		0.530		0.000		3.010

The total Quantity reflects the inventory objective for this item.

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

MODELS OF SYSTEMS AFFECTED: Landing Systems MODIFICATION TITLE: OCIR 9606

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: AIT
ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 3 Months
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: 2/99
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: 5/99

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT											2	**0.085**											2	**0.085**
FY 2000 EQUIPMENT													1	**0.052**									1	**0.052**
FY 2001 EQUIPMENT															1	**0.053**							1	**0.053**
FY 2002 EQUIPMENT																	1	**0.053**					1	**0.053**
FY 2003 EQUIPMENT																			1	**0.054**			1	**0.054**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	6
Out	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	6

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: Landing Systems TYPE MODIFICATION: Reliability MODIFICATION TITLE: AN/FPN-63 UPGRADE

DESCRIPTION/JUSTIFICATION:

Extending the AN/FPN-63 service life until the Differential Global Positioning System replaces the system.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **Fielded**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS	43	4.300																					43	4.300
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT																								0.000
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	22	1.100	11	0.483	10	0.385	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	43	1.968
TOTAL PROCUREMENT		4.300		1.100		0.483		0.385		0.000		0.000		0.000		0.000		0.000		0.000		0.000		6.268

The total Quantity reflects the inventory objective for this item.

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: Landing Systems

MODIFICATION TITLE: AN/FPN-63 Upgrade

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: AIT
ADMINISTRATIVE LEADTIME: 8 Months
PRODUCTION LEADTIME: 6 Months
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS			**22**	**1.100**	11	**0.483**	10	**0.385**															43	**1.968**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	43	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	43
Out	33	0	0	4	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	43

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: Landing Systems TYPE MODIFICATION: Operational Capability Improvement MODIFICATION TITLE: Instrument Landing System

DESCRIPTION/JUSTIFICATION:

This precision approach and landing system is being procured for shore-based multi-engine aircraft pipeline training facilities and home bases. The operational employmment of multi-engine aircraft requires a total familiarity with ILS type approaches through pipeline and home base training.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **Fielded**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																							0	0.000
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT	12	3.025																					12	3.025
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	4	1.804	0	0.000	0	0.000	3	1.634	5	1.199	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	12	4.637
TOTAL PROCUREMENT		4.829		0.000		0.000		1.634		1.199		0.000		0.000		0.000		0.000		0.000		0.000		7.662

The total Quantity reflects the inventory objective for this item.

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: **Landing Systems**

MODIFICATION TITLE: Instrument Landing System

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: AIT
ADMINISTRATIVE LEADTIME: 6 Months
PRODUCTION LEADTIME: 4 Months
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS	**4**	**1.804**																					4	**1.804**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT							3	**1.634**	5	**1.199**													8	**2.833**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	12	0	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	12
Out	4	0	1	2	0	0	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12

2 FY97 units required additional installation costs not required of FY98 units.

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: Landing Systems TYPE MODIFICATION: Reliability/Maintainability MODIFICATION TITLE: Environmental Shelters

DESCRIPTION/JUSTIFICATION:

Environmental Shelters to protect current Precision Appproach Radar until DGPS can be fully deployed.

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

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS	10	1.263					7	0.971	10	1.378	10	1.407	5	0.718									42	5.737
INSTALLATION KITS UNIT COST								0.135		0.138		0.141		0.144										0.000
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT																								0.000
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	7	0.787	10	1.434	10	0.991	10	1.444	5	0.546	0	0.000	0	0.000	0	0.000	42	#VALUE!
TOTAL PROCUREMENT		1.263		0.000		0.000		1.758		2.812		2.398		2.162		0.546		0.000		0.000		0.000		10.939

The total Quantity reflects the inventory objective for this item.

CLASSIFICATION: **UNCLASSIFIED**

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

MODELS OF SYSTEMS AFFECTED: **Landing Systems** MODIFICATION TITLE: Environmental Shelters

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: AIT
ADMINISTRATIVE LEADTIME: 7 Months PRODUCTION LEADTIME: 8 Months
CONTRACT DATES: FY 1997: 5/97 FY 1998: 5/98 FY 1999: 5/99
DELIVERY DATE: FY 1997: 1/98 FY 1998: 1/99 FY 1999: 1/00

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT							7	**0.787**															7	**0.787**
FY 1998 EQUIPMENT									10	**1.434**													10	**1.434**
FY 1999 EQUIPMENT											10	**0.991**											10	**0.991**
FY 2000 EQUIPMENT													10	**1.444**									10	**1.444**
FY 2001 EQUIPMENT															5	**0.546**							5	**0.546**
FY 2002 EQUIPMENT																							0	######
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	10	0	0	0	0	0	3	3	1	0	3	4	3	0	4	4	2	0	5	0	0	0	0	0	0	0	0	0	0	0	42
Out	0	0	0	3	4	2	3	2	3	2	3	2	3	2	3	2	3	0	0	3	2	0	0	0	0	0	0	0	0	0	42

CLASSIFICATION: **UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET P-40	DATE: February 1998
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY**	P-1 ITEM NOMENCLATURE **NARM # 284700** **Fleet Area Control and Surveillance Facility (FACSFAC)**
Program Element for Code B Items: **Not Applicable**	Other Related Program Elements **Not Applicable**

	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	$117.6		$7.1	**$5.9**	**$6.8**	**$4.6**	**$4.6**	**$4.7**	**$4.8**	**$4.8**	**CONT**	**CONT**

DESCRIPTION:

Fleet Area Control and Surveillance Facilities (FACSFAC) are established to provide a multi-mission service related to the Naval Air Traffic Control and Landing Systems (ATCLS) program. This service includes scheduling of surface, subsurface, and air operations in off-shore operating areas, surveillance control of air operations and related training evolutions such as Ground Control Intercept and Air Combat Maneuvers. The basic purpose of FACSFAC is to prevent mid-air collisions between military and civilian aircraft and to guard against restrictions caused by the increasing encroachment of commercial interest.

The Department of the Navy has established FACSFACs wherever the volume of military aircraft using off-shore operating areas creates serious potential for mid-air collisions with civilian aircraft. Four sites (Virginia Capes, San Diego, Jacksonville and Hawaii) have been established with two interim sites also commissioned (FACSFAC Whidbey Island and FACSFAC Caribbean). In order to accommodate mission expansion and to maintain proper interface with the FAA air traffic control systems, all FACSFACs must be provided enhanced capabilities.

Funding in FY 96 through FY 99 provides for procurement and installation of the following:
FY 96 provides funding to: procure 8 Radar Input Unit Replacements (TT173); procure 7 Link 11 security filters (TT174); procure miscellaneous mission enhancements for selected sites (OCIRs/ECPs) (TT145).

FY 97 provides funding to: procure 2 Radar Beacon Digitizer Replacements (TT185); procure 2 Display replacements (TT176); procure miscellaneous enhancements for selected sites (OCIRs/ECPs) (TT145)

FY 98 provides funding to: procure 5 radar Beacon Digitizer Replacement (TT175); procure 22 Display replacements (TT176); procure miscellaneous enhancements for selected sites (OCIRs/ECPs) (TT145)

FY 99 provides funding to: procure 14 Display replacements (TT176); procure miscellaneous enhancements for selected sites (OCIRs/ECPs) (TT145).

Items must be procured in single inclusive lots to ensure commonality for logistics support and for component inter-changeability. This is especially important, since these are Non-developmental Item (NDI) units with limited model production runs. Economic benefits are also realized by single lot purchase.

BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS
P-40a

DATE: **February 1998**

APPROPRIATION/BUDGET ACTIVITY
OTHER PROCUREMENT, NAVY

P-1 ITEM NOMENCLATURE
Fleet Area Control and Surveillance Facility (FACSFAC)

Procurement Items	ID Code	Prior Years	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
TT168 PORT RADAR REC	N/A											
QTY		3										**6**
FUNDING		0.218										**0.436**
TT171 MODE S INTERFACE	N/A											
QTY									6	3		**9**
FUNDING									1.420	0.800		**2.220**
TT173 RADAR INPUT UNIT	N/A											
QTY			8									**8**
FUNDING			0.800									**0.800**
TT174 LINK 11 SEC FILTER	N/A											
QTY			7									**7**
FUNDING			0.651									**0.651**
TT175 RADAR BEACON DIG	N/A											
QTY				2	5							**7**
FUNDING				0.625	1.219							**1.844**
TT176 DISPLAY REPLACE	N/A											
QTY				2	22	14	13	5				**56**
FUNDING				2.631	2.671	1.708	1.612	0.635				**9.257**
TT177 FACTS 3200 RADAR	N/A											
RADAR INPUT DIGITIZER RPLC												
QTY							2	4	2			**8**
FUNDING							0.928	1.880	0.950			**3.758**
TT179 GLOBAL POSITIONING	N/A											
SYSTEM INTERFACE												
QTY										8		**8**
FUNDING										1.280		**1.280**
TT300 CARIBROC UPG	N/A											
QTY		2										**4**
FUNDING		71.594										**143.188**
OTHER COSTS	N/A	45.733	5.685	2.636	2.931	2.925	2.047	2.149	2.380	2.767	CONT.	CONT.
TOTAL FUNDING		117.545	7.136	5.892	6.821	4.633	4.587	4.664	4.750	4.847	0	CONT.

P-1 SHOPPING LIST

CLASSIFICATION:

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System		DATE: **February 1998**
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy**	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD **Fleet Area Control and Surveillance Facility (FACSFAC)**	**42TT**

COST CODE	ELEMENT OF COST	ID Code	Prior Years	FY 1996			FY 1997			FY 1998			FY 1999		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
TT145	FACSFAC AIR CONTROL TRACKING	N/A	6,360	VAR		516	VAR		836	VAR		589	VAR		879
	SYSTEM (FACTS), ECPs, and OCIRs	N/A													
TT168	PORT RADAR RECORDER	N/A	218												
TT173	RADAR INPUT UNIT REPLACEMENT	N/A		8	100	800									
TT174	LINK 11 SECURITY FILTER	N/A		7	93	651									
TT175	RADAR BEACON DIGITIZER (RBD) REPLACE	N/A					2	313	625	5	244	1,219			
TT176	DISPLAY REPLACEMENT	N/A					2	250	2,631	22	121	2,671	14	122	1,708
TT300	JARCC/CARIBROC UPGRADE	N/A	71,594												
TT800	INTEGRATED LOGISTICS SUPPORT	N/A	1,504			464			473			523			531
TT830	PRODUCTION ENGINEERING	N/A	4,039			1,587			734			708			641
TT880	INTERIM CONTRACTOR	N/A													
TT900	INSTALLATION (NON-FMP)	N/A	3,960			3,118			593			1,111			874
	VARIOUS 1/	N/A	28,602												
	1/The amount identified against this cost element reflects total prior year funding associated with cost elements no longer financed in FY 1995 and beyond.														
			117,545			**7,136**			**5,892**			**6,821**			**4,633**

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE February 1998
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA2 - Communications and Electronics Equipment	C. P-1 ITEM NOMENCLATURE Fleet Area Control and Surveillance Facility (FACSFAC)	SUBHEAD 42TT

Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
TT173 RADAR INPUT UNIT										
FY 96	8	100	NAWCAD ST INIGOES	5/96	FFP	KARDIOS GREENBELT , MD.	7/95	12/95	YES	
TT174 LINK 11 SECURITY FILTER										
FY 96	7	93	NAWCAD ST INIGOES	5/96	C/FP	LOCKHEED MARTIN LEXINGTON PARK, MD.	7/96	3/97	YES	
TT175 RADAR BEACON DIGITIZER REP										
FY 97	2	313	NAWCAD ST INIGOES	7/97	C/FP	SENSIS MANASSAS, VA.	9/97	5/98	YES	
FY 98	5	244	NAWCAD ST INIGOES	10/97	C/OPTION	SENSIS MANASSAS, VA.	12/97	12/98	YES	
TT176 DISPLAY REPLACEMENT										
FY 97	2	250	NAVSEA	11/96	C/FP	LOCKHEED MARTIN MINNEAPOLIS ST PAUL	1/97	3/98	YES	
FY 98	22	121	NAVSEA	10/97	C/OPTION	LOCKHEED MARTIN MINNEAPOLIS ST PAUL	12/97	3/99	YES	
FY 99	14	122	NAVSEA	10/98	C/OPTION	LOCKHEED MARTIN MINNEAPOLIS ST PAUL	12/98	3/00	YES	

D. REMARKS

FY 97 TT176 DISPLAY REPLACEMENT INCLUDES $2131K OF NONRECURRING INTEGRATION, SOFTWARE ADAPTATION, SYSTEM INTERFACE COSTS TO ESTABLISH A BASELINE DISPLAY.

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: FACSFAC TYPE MODIFICATION: CAPABILITY UPGRADE MODIFICATION TITLE: OCIRS/ECPS SUMMARY (TT145)

DESCRIPTION/JUSTIFICATION:

SUMMARY

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 1994 & Prio		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								0.000
PROCUREMENT																								
INSTALLATION KITS		5.996		0.364		0.516		0.836		0.589		0.879		0.551		0.488		0.810		0.997				12.026
INSTALLATION KITS - UNIT COST																								
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT																								0.000
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.481	0	0.371	0	0.400	0	0.840	0	0.346	0	0.331	0	0.406	0	0.263	0	0.338	0	0.000		3.776
TOTAL PROCUREMENT		5.996		0.845		0.887		1.236		1.429		1.225		0.882		0.894		1.073		1.335		0.000		15.802

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: **FACSFAC**

MODIFICATION TITLE: OCIRS/ECPS SUMMARY (TT145)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: N/A
PRODUCTION LEADTIME: N/A
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT				**0.481**																			0	**0.481**
FY 1996 EQUIPMENT						**0.371**																	0	**0.371**
FY 1997 EQUIPMENT								**0.400**															0	**0.400**
FY 1998 EQUIPMENT										**0.840**													0	**0.840**
FY 1999 EQUIPMENT												**0.346**											0	**0.346**
FY 2000 EQUIPMENT														**0.331**									0	**0.331**
FY 2001 EQUIPMENT																**0.406**							0	**0.406**
FY 2002 EQUIPMENT																		**0.263**					0	**0.263**
FY 2003 EQUIPMENT																				**0.338**			0	**0.338**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: FACSFAC TYPE MODIFICATION: CAPABILITY UPGRADE MODIFICATION TITLE: OCIR 0008 ADDITIONAL HF RADIOS FOR FACSFAC SAN DIEGO (TT145)

DESCRIPTION/JUSTIFICATION:

Provides three additional HF radios on San Clemente FACSFAC San Diego Island for use by FACSFAC San Diego.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **NDI**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								0.000
INSTALLATION KITS	3	0.279																					3	0.279
INSTALLATION KITS - UNIT COST		0.093																						0.000
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT																							0	0.000
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	0	0.000	3	0.068	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	3	0.068
TOTAL PROCUREMENT		0.279		0.000		0.000		0.000		0.068		0.000		0.000		0.000		0.000		0.000		0.000		0.347

The total Quantity reflects the inventory objective for this item.

CLASSIFICATION: **UNCLASSIFIED**

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

MODELS OF SYSTEMS AFFECTED: **FACSFAC** MODIFICATION TITLE: OCIR 0008 ADDITIONAL HF RADIOS FOR FACSFAC SAN DIEGO (TT145)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: N/A PRODUCTION LEADTIME: N/A
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS									3	**0.068**													3	**0.068**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	3	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	3
Out	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: FACSFAC TYPE MODIFICATION: CAPABILITY IMPROVEMENT MODIFICATION TITLE: OCIR 6015 LINK 11 MONITORING (TT145)

DESCRIPTION/JUSTIFICATION:

Changes to accommodate mission expansion and maintain proper interface with the FAA.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **COTS**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS					4	0.516																	4	0.516
INSTALLATION KITS - UNIT COST						0.129																		
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT																							0	0.000
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	4	0.140	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	4	0.140
TOTAL PROCUREMENT		0.000		0.000		0.516		0.140		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.656

The total Quantity reflects the inventory objective for this item.

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

MODELS OF SYSTEMS AFFECTED: **FACSFAC** MODIFICATION TITLE: OCIR 6015 LINK 11 MONITORING SYSTEM (TT145)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: N/A PRODUCTION LEADTIME: N/A
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT							4	**0.140**															4	**0.140**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Out	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: FACSFAC TYPE MODIFICATION: RELIABILITY/MAINTAINABLITY MODIFICATION TITLE: OCIR 7004 UPS SAN CLEMENTE IS. (TT145)

DESCRIPTION/JUSTIFICATION:

Provides an uninterupted power supply for FACSFAC San Diego Radar and Communication Systems on San Clemente Island.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **NDI**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS	1	0.502																						0.502
INSTALLATION KITS - UNIT COST		0.502																						
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT																							0	0.000
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	1	0.055	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1	0.055
TOTAL PROCUREMENT		0.502		0.000		0.055		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.557

The total Quantity reflects the inventory objective for this item.

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

MODELS OF SYSTEMS AFFECTED: **FACSFAC** MODIFICATION TITLE: OCIR 7004 UPS SAN CLEMENTE IS. (TT145)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: N/A PRODUCTION LEADTIME: N/A
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS					1	**0.055**																	1	**0.055**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997 1	FY 1997 2	FY 1997 3	FY 1997 4	FY 1998 1	FY 1998 2	FY 1998 3	FY 1999 2	FY 1999 3	FY 1999 4	FY 2000 1	FY 2000 2	FY 2000 3	FY 2000 4	FY 2001 1	FY 2001 2	FY 2001 3	FY 2001 4	FY 2002 1	FY 2002 2	FY 2002 3	FY 2002 4	FY 2003 1	FY 2003 2	FY 2003 3	FY 2003 4	TC	TOTAL
In	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Out	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: FACSFAC

TYPE MODIFICATION: CAPABILITY IMPROVEMENT

MODIFICATION TITLE: OCIR 7011 FACSFAC SAN DIEGO RADAR DROP FROM NAS (TT145)

DESCRIPTION/JUSTIFICATION:

Provides a video display of NAS North Island radar data to FACSFAC San Diego.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **NDI**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS	1	0.500																						0.500
INSTALLATION KITS - UNIT COST		0.500																						
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT																							0	0.000
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	1	0.050	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1	0.050
TOTAL PROCUREMENT		0.500		0.000		0.050		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.550

The total Quantity reflects the inventory objective for this item.

CLASSIFICATION: **UNCLASSIFIED**

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

MODELS OF SYSTEMS AFFECTED: **FACSFAC**

MODIFICATION TITLE: OCIR 7011 FACSFAC SAN DIEGO RADAR DROP FROM NAS NORTH ISLAND (TT145)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: N/A
PRODUCTION LEADTIME: N/A
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS					1	**0.050**																	1	**0.050**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Out	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: FACSFAC

TYPE MODIFICATION: CAPABILITY IMPROVEMENT

MODIFICATION TITLE: OCIR 7016 FACSFAC SAN DIEGO SURFACE SEARCH RADAR (TT145)

DESCRIPTION/JUSTIFICATION:

Provides a surface display of FACSFAC San Diego AIR and SEA space for use in controlling AIR and SEA surface units.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **NDI**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS									1	0.020														0.020
INSTALLATION KITS - UNIT COST										0.020														
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT																							0	0.000
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	0	0.000	1	0.100	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1	0.100
TOTAL PROCUREMENT		0.000		0.000		0.000		0.000		0.120		0.000		0.000		0.000		0.000		0.000		0.000		0.120

The total Quantity reflects the inventory objective for this item.

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

MODELS OF SYSTEMS AFFECTED: **FACSFAC** MODIFICATION TITLE: OCIR 7016 FACSFAC SAN DIEGO SURFACE SEARCH RADAR (TT145)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 3 MONTHS PRODUCTION LEADTIME: 5 MONTHS
CONTRACT DATES: FY 1997: N/A FY 1998: 12/97 FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: 5/98 FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT									1	**0.100**													1	**0.100**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Out	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: FACSFAC

TYPE MODIFICATION: CABILITY IMPROVEMENT

MODIFICATION TITLE: OCIR 9007 PROFESSOR DISPLAY UPGRADE FACSFAC CARIBBEAN (TT145)

DESCRIPTION/JUSTIFICATION:

Incorporates a FACTS 3200 processor display system to bring FACSFAC Caribbean to full mission capability

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **NDI**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS	1	1.142																						1.142
INSTALLATION KITS - UNIT COST		1.142																						
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT																							0	0.000
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	1	0.030	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1	0.030
TOTAL PROCUREMENT		1.142		0.000		0.030		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		1.172

The total Quantity reflects the inventory objective for this item.

CLASSIFICATION: **UNCLASSIFIED**

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

MODELS OF SYSTEMS AFFECTED: **FACSFAC**

MODIFICATION TITLE: OCIR 9007 PROFESSOR DISPLAY UPGRADE AT FACSFAC CARIBBEAN (TT145)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: N/A
PRODUCTION LEADTIME: N/A
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS					1	**0.030**																	1	**0.030**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Out	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

P-3A

CLASSIFICATION: **UNCLASSIFIED**

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: FACSFAC TYPE MODIFICATION: RELIABILITY/MAINTAINABILITY MODIFICATION TITLE: OCIR 9212 FACSFAC SAN DIEGO (TT145)

DESCRIPTION/JUSTIFICATION:

Replaces obsolete and unsupportable microwave relay equipment between San Clemente Island and FACSFAC San Diego, also applys to FACSFAC Jacksonville.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **AIT**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS											2	0.879											2	0.879
INSTALLATION KITS - UNIT COST												0.440												
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT																							0	0.000
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1	0.187	1	0.331	0	0.000	0	0.000	0	0.000	0	0.000	2	0.518
TOTAL PROCUREMENT		0.000		0.000		0.000		0.000		0.000		1.066		0.331		0.000		0.000		0.000		0.000		1.397

The total Quantity reflects the inventory objective for this item.

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: **FACSFAC**

MODIFICATION TITLE: OCIR 9212 FACSFAC SAN DIEGO & JACKSONVILLE MICROWAVE UPGRADE (TT145)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 2 MONTHS
PRODUCTION LEADTIME: 6 MONTHS
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: 12/98
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: 6/99

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT											1	**0.187**	1	**0.331**									2	**0.518**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Out	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: FACSFAC TYPE MODIFICATION: OPERATIONAL IMPROVEMENT MODIFICATION TITLE: OCIR 9308 UPGRADE FACTS 3200 (TT145)

DESCRIPTION/JUSTIFICATION:

Changes to accommodate mission expansion and maintain proper interface with the FAA.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **AIT**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS			5	0.364																				0.364
INSTALLATION KITS - UNIT COST				0.073																				
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT																							0	0.000
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	4	0.481	1	0.060	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	5	0.541
TOTAL PROCUREMENT		0.000		0.845		0.060		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.905

The total Quantity reflects the inventory objective for this item.

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

MODELS OF SYSTEMS AFFECTED: **FACSFAC**

MODIFICATION TITLE: OCIR 9308 UPGRADE FACTS 3200 PROCESSOR DISPLAY SYSTEM (TT145)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: N/A
PRODUCTION LEADTIME: N/A
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT			**4**	**0.481**	1	**0.060**																	5	**0.541**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Out	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: FACSFAC

TYPE MODIFICATION: CAPABILITY UPGRADE

MODIFICATION TITLE: OCIR 9310 FACSFAC SAN DIEGO NORTHERN CA. OPAREA EXPAN (TT145)

DESCRIPTION/JUSTIFICATION:

Exxpands radar and communication coverage for FACSFAC San Diego to assume responsibility for Northern California Opareas.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **NDI**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS	1	0.446																						0.446
INSTALLATION KITS - UNIT COST		0.446																						
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT																							0	0.000
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.176	1	0.137	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1	0.313
TOTAL PROCUREMENT		0.446		0.000		0.176		0.137		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.759

The total Quantity reflects the inventory objective for this item.

CLASSIFICATION: **UNCLASSIFIED**

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

MODELS OF SYSTEMS AFFECTED: **FACSFAC**

MODIFICATION TITLE: OCIR 9310 FACSFAC SAN DIEGO NORTHERN CA. OPAREA EXPANSION (TT145)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: **AIT**

ADMINISTRATIVE LEADTIME: N/A

PRODUCTION LEADTIME: N/A

CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A

DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS					AP	**0.176**	1	**0.137**															1	**0.313**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Out	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: FACSFAC TYPE MODIFICATION: RELIABILITY/MAINTAINABILITY MODIFICATION TITLE: OCIR 9609 FACSFAC SAN DIEGO ANTENNA (TT145)

DESCRIPTION/JUSTIFICATION:

Replaces delapidated antennae and support equipment on San Clemente Island for FACSFAC San Diego.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **NDI**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS									1	0.351													1	0.351
INSTALLATION KITS - UNIT COST										0.351														
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT																							0	0.000
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	0	0.000	1	0.630	0	0.159	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1	0.789
TOTAL PROCUREMENT		0.000		0.000		0.000		0.000		0.981		0.159		0.000		0.000		0.000		0.000		0.000		1.140

The total Quantity reflects the inventory objective for this item.

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

MODELS OF SYSTEMS AFFECTED: **FACSFAC** MODIFICATION TITLE: OCIR 9609 FACSFAC SAN DIEGO ANTENNA UPGRADE (TT145)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 1 MONTH PRODUCTION LEADTIME: 5 MONTHS
CONTRACT DATES: FY 1997: N/A FY 1998: 10/97 FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: 3/98 FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT									1	**0.630**		**0.159**											1	**0.789**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Out	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

FY 99 Install 159K for Engineering Change Drawings.

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: FACSFAC

TYPE MODIFICATION: CAPABILITY UPGRADE

MODIFICATION TITLE: OCIR 9615 FACSFAC SAN DIEGO RADAR CAPACITY UPGRADE (TT145)

DESCRIPTION/JUSTIFICATION:

Increase FACSFAC San Diego processor/display system radar input capacity from 10 to 15 radars to accomodate addition Northern California training area control.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **NDI**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS									1	0.022													1	0.022
INSTALLATION KITS - UNIT COST										0.022														
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT																							0	0.000
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	0	0.000	1	0.007	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1	0.007
TOTAL PROCUREMENT		0.000		0.000		0.000		0.000		0.029		0.000		0.000		0.000		0.000		0.000		0.000		0.029

The total Quantity reflects the inventory objective for this item.

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

MODELS OF SYSTEMS AFFECTED: **FACSFAC** MODIFICATION TITLE: OCIR 9615 FACSFAC SAN DIEGO RADAR CAPACITY UPGRADE (TT145)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 3 MONTHS PRODUCTION LEADTIME: 3 MONTHS
CONTRACT DATES: FY 1997: N/A FY 1998: 12/97 FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: 3/98 FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT									1	**0.007**													1	**0.007**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Out	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: FACSFAC

TYPE MODIFICATION: CAPABILITY IMPROVEMENT

MODIFICATION TITLE: ECP PENSACOLA UPGRADE (TT145)

DESCRIPTION/JUSTIFICATION:

Changes to accommodate mission expansion and maintain proper interface with the FAA.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **NDI**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS							1	0.836															1	0.836
INSTALLATION KITS - UNIT COST								0.836																
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT																							0	0.000
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	1	0.123	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1	0.123
TOTAL PROCUREMENT		0.000		0.000		0.000		0.959		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.959

The total Quantity reflects the inventory objective for this item.

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: **FACSFAC**

MODIFICATION TITLE: ECP PENSACOLA UPGRADE (TT145)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 1 MONTH
PRODUCTION LEADTIME: 8 MONTHS
CONTRACT DATES: FY 1997: 10/96 FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: 6/97 FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT							1	**0.123**															1	**0.123**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Out	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

FY 98 INSTALL 20K FOR AS BUILT DRAWING

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: FACSFAC

TYPE MODIFICATION: CAPABILITY IMPROVEMENT

MODIFICATION TITLE: ECP LINK 11 SECURITY FILTER UPGRADE (TT145)

DESCRIPTION/JUSTIFICATION:

Changes to maintain and upgrade Link 11 security filter.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **COTS**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS									1	0.196													1	0.196
INSTALLATION KITS - UNIT COST										0.196														
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT																							0	0.000
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	0	0.000	1	0.035	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1	0.035
TOTAL PROCUREMENT		0.000		0.000		0.000		0.000		0.231		0.000		0.000		0.000		0.000		0.000		0.000		0.231

The total Quantity reflects the inventory objective for this item.

CLASSIFICATION: **UNCLASSIFIED**

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

MODELS OF SYSTEMS AFFECTED: **FACSFAC** MODIFICATION TITLE: ECP LINK 11 SECURITY FILTER UPGRADE (TT145)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 1 MONTH PRODUCTION LEADTIME: 5 MONTHS
CONTRACT DATES: FY 1997: N/A FY 1998: 10/97 FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: 3/98 FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT									1	**0.035**													1	**0.035**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Out	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: FACSFAC TYPE MODIFICATION: RELIABILITY/MAINTAINABILITY MODIFICATION TITLE: RADAR INPUT UNIT REPLACEMENT (TT173)

DESCRIPTION/JUSTIFICATION:

Replacement for aging and obsolete equipment radar interfaces with Improved versions.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **COTS**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																							0	0.000
INSTALLATION KITS - UNIT COST																								
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT					8	0.800																	8	0.800
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	8	0.070	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	8	0.070
TOTAL PROCUREMENT		0.000		0.000		0.800		0.070		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.870

The total Quantity reflects the inventory objective for this item.

CLASSIFICATION: **UNCLASSIFIED**

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

MODELS OF SYSTEMS AFFECTED: **FACSFAC** MODIFICATION TITLE: RADAR INPUT UNIT REPLACEMENT (TT173)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: N/A PRODUCTION LEADTIME: N/A
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT							8	**0.070**															8	**0.070**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Out	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: FACSFAC TYPE MODIFICATION: CAPABILITY IMPROVEMENT MODIFICATION TITLE: LINK 11 SECURITY FILTER (TT174)

DESCRIPTION/JUSTIFICATION:

Enables Link 11 secure data, in the FACTS 3200 computer to be displayed at sites remote from the FACSFAC.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **COTS**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																							0	0.000
INSTALLATION KITS - UNIT COST																								
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT					7	0.651																	7	0.651
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	7	0.057	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	7	0.057
TOTAL PROCUREMENT		0.000		0.000		0.651		0.057		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.708

The total Quantity reflects the inventory objective for this item.

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

MODELS OF SYSTEMS AFFECTED: **FACSFAC** MODIFICATION TITLE: LINK 11 SECURITY FILTER (TT174)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: N/A PRODUCTION LEADTIME: N/A
CONTRACT DATES: FY 1997: N/A FY 1998: 7/96 FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: 3/98 FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT							7	**0.057**															7	**0.057**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Out	0	0	1	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: FACSFAC

TYPE MODIFICATION: RELIABILITY/MAINTAINABILITY

MODIFICATION TITLE: RADAR BEACON DIGITIZER REPLACEMENT (TT175)

DESCRIPTION/JUSTIFICATION:

Replacement for current Radar Beacon Digitizers that are obsolete and do not work with the new radars.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **COTS**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																							0	0.000
INSTALLATION KITS - UNIT COST																								
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT							2	0.625	5	1.219													7	1.844
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0.0	0.000	0	0.000	0	0.000	2	0.130	5	0.178	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	7	0.308
TOTAL PROCUREMENT		0.000		0.000		0.000		0.625		1.349		0.178		0.000		0.000		0.000		0.000		0.000		2.152

The total Quantity reflects the inventory objective for this item.

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: **FACSFAC**

MODIFICATION TITLE: RADAR BEACON DIGITIZER REPLACEMENT (TT175)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 7 MONTHS
PRODUCTION LEADTIME: 12 MONTHS
CONTRACT DATES: FY 1997: 4/97 FY 1998: 12/97 FY 1999: 4/99
DELIVERY DATE: FY 1997: 4/98 FY 1998: 12/98 FY 1999: 4/00

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT									2	**0.130**													2	**0.130**
FY 1998 EQUIPMENT											5	**0.178**											5	**0.178**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	2	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Out	0	0	0	0	0	0	0	0	2	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: FACSFAC TYPE MODIFICATION: CAPABILITY IMPROVEMENT MODIFICATION TITLE: DISPLAY REPLACEMENT (TT176)

DESCRIPTION/JUSTIFICATION:

Provides visual air traffic control display to controllers. Advance technology display to replace obsolete out of production display units.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **Contractor off the shelf (COTS)**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																							0	0.000
INSTALLATION KITS - UNIT COST																								
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT							2	0.500	22	2.671	14	1.708	13	1.612	5	0.635							56	7.126
EQUIPMENT NONRECURRING								2.131																2.131
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	0	0.000	2	0.141	22	0.350	14	0.297	13	0.234	5	0.133	0	0.000	0	0.000	56	1.155
TOTAL PROCUREMENT		0.000		0.000		0.000		2.631		2.812		2.058		1.909		0.869		0.133		0.000		0.000		10.412

The total Quantity reflects the inventory objective for this item.

CLASSIFICATION: **UNCLASSIFIED**

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

MODELS OF SYSTEMS AFFECTED: **FACSFAC** MODIFICATION TITLE: DISPLAY REPLACEMENT (TT176)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 3 MONTHS PRODUCTION LEADTIME: 15 MONTHS
CONTRACT DATES: FY 1997: 1/97 FY 1998: 12/97 FY 1999: 12/98
DELIVERY DATE: FY 1997: 3/98 FY 1998: 3/99 FY 1999: 3/00

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT									2	**0.141**													2	**0.141**
FY 1998 EQUIPMENT											22	**0.350**											22	**0.350**
FY 1999 EQUIPMENT													14	**0.297**									14	**0.297**
FY 2000 EQUIPMENT															13	**0.234**							13	**0.234**
FY 2001 EQUIPMENT																	5	**0.133**					5	**0.133**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	0	0	0	0	0	0	2	0	0	0	7	8	7	0	5	5	4	0	4	4	5	0	3	2	0	0	0	0	0	0	56
Out	0	0	0	0	0	0	0	2	0	0	7	8	7	0	5	5	4	0	4	4	5	0	3	2	0	0	0	0	0	0	56

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: FACSFAC TYPE MODIFICATION: CAPABILITY UPGRADE MODIFICATION TITLE: TRANSPORTABLE RADAR RECORDERS (TT168)

DESCRIPTION/JUSTIFICATION:

Provides three transportable radar recorders for use by the FACSFAC in maintaining radar data displays.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **NDI**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																							0	0.000
INSTALLATION KITS - UNIT COST																								
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT			3	0.218																			3	0.218
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	1	0.035	2	0.046	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	3	0.081
TOTAL PROCUREMENT		0.000		0.218		0.035		0.046		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.299

The total Quantity reflects the inventory objective for this item.

CLASSIFICATION: **UNCLASSIFIED**

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

MODELS OF SYSTEMS AFFECTED: **FACSFAC** MODIFICATION TITLE: TRANSPORTABLE RADAR RECORDERS (TT168)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: N/A PRODUCTION LEADTIME: N/A
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT					1	**0.035**	2	**0.046**															3	**0.081**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	3	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	3
Out	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: FACSFAC TYPE MODIFICATION: CAPABILITY IMPROVEMENT MODIFICATION TITLE: CARIBROC UPGRADE (TT300)

DESCRIPTION/JUSTIFICATION:

Procurement of processor and communications upgrade hardware and documentation.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **NDI Program**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																							0	0.000
INSTALLATION KITS - UNIT COST																								
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT	1	69.949	1	1.045																			2	70.994
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	1	0.600	0	0.000	1	0.610	0	0.020	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	2	1.230
TOTAL PROCUREMENT		70.549		1.045		0.610		0.020		0.000		0.000		0.000		0.000		0.000		0.000		0.000		72.224

The total Quantity reflects the inventory objective for this item.

CLASSIFICATION: **UNCLASSIFIED**

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

MODELS OF SYSTEMS AFFECTED: **FACSFAC** MODIFICATION TITLE: CARIBROC UPGRADE (TT300)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: N/A PRODUCTION LEADTIME: N/A
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS	**1**	**0.600**																					1	**0.600**
FY 1995 EQUIPMENT					1	**0.610**		**0.020**															1	**0.630**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Out	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

FY 97 20K INSTALL FUNDED AS BUILT DRAWINGS

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: FACSFAC TYPE MODIFICATION: CAPABILITY UPGRADE MODIFICATION TITLE: ARSR-4 RADAR (TT300)

DESCRIPTION/JUSTIFICATION:

Procurement and installation of two ARSR-4 radars through an FAA contract for use by certain Navy facilities.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **COTS**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																							0	0.000
INSTALLATION KITS - UNIT COST																								
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT	2	24.000																					2	24.000
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	1	1.958	1	2.102	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	2	4.060
TOTAL PROCUREMENT		24.000		1.958		2.102		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		28.060

The total Quantity reflects the inventory objective for this item.

CLASSIFICATION: **UNCLASSIFIED**

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

MODELS OF SYSTEMS AFFECTED: **FACSFAC** MODIFICATION TITLE: ARSR-4 RADAR (TT300)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: N/A PRODUCTION LEADTIME: N/A
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS			**1**	**1.958**	1	**2.102**																	2	**4.060**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Out	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

CLASSIFICATION: **UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET P-40												DATE: FEBRUARY 1998
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA2 Communication and Electronic Equipment**							P-1 ITEM NOMENCLATURE IDENTIFICATION (ID) SYSTEMS					**BLI - 2851**
Program Element for Code B Items:							Other Related Program Elements **N/A**					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	**$78.3**		**$7.9**	**$18.4**	**$8.9**	**$15.3**	**$20.0**	**$22.0**	**$22.2**	**$20.1**	**Cont**	**Cont**

The Identification Systems funds programs providing a secure combat navigation and identification capability for unit location and identification purposes. All systems combine to sharply reduce the risk of Blue on Blue engagement in a joint operating environment. The Naval Air Systems Command (NAVAIRSYSCOM) and the Space and Naval Warfare Systems Command (SPAWARSYSCOM) are the responsible organizations for items procured in this line. The funds presently assigned to them are as follows:

	Prior Years	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
NAVAIRSYSCOM	$78.4	$7.947	$18.403	$8.878	$14.304	$15.800	$16.633	$16.835	$16.758	Cont	Cont
SPAWARSYSCOM	$0.0	$0.000	$0.000	$0.000	$1.026	$4.249	$5.365	$5.323	$3.370	$0.000	$19.333
Total P-1	$78.4	$7.947	$18.403	$8.878	$15.330	$20.049	$21.998	$22.158	$20.128	Cont	Cont

CLASSIFICATION: **UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET P-40												DATE: February 1998
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY**							P-1 ITEM NOMENCLATURE **285100** **IDENTIFICATION SYSTEMS-NAVAIRSYSCOM 42MT**					
Program Element for Code B Items: 0604777N							Other Related Program Elements **NOT APPLICABLE**					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	$78.3		$7.9	**$18.4**	**$8.9**	**$14.3**	**$15.8**	**$16.6**	**$16.8**	**$16.8**	**CONT**	**CONT**

DESCRIPTION:
The ID System funds the following procurements: MK XII Improvements, AN/UPX-29 Improvements, AN/UPM-155 Radar Test Set, AN/UPX-27 Interrogator Set Replacement and Shipboard Advanced Radar Target Identification Systems (SARTIS).

The Air Traffic Control System, Identification Friend or Foe, MK XII System (AIMS) is a DOD directed tri-service program designated to provide a universal air traffic control radar beacon system compatible with the National Airspace Program. It provides a secure identification system for military use on all major combatant ships, selected auxiliaries, patrol craft, and selected Coast Guard ships by allowing all friendly forces to identify each other and neutral forces. The Air Traffic Control Radar System supports several missions such as Anti-Airwarfare, Aerial Bombardment, and Naval Attack.

The AN/UPX-29 Improvements program provides field changes to the AN/UPX-29 for Improved reliability and maintenance.

The AN/UPM-155 Radar Test Set replaces the aging AN/UPM-136 and the AN/UPM-137A test sets as the prime support equipment for the MK-XII system in all services. It is intended to give the Fleet modern equipment that will allow more accurate alignments in less time to increase the system's operational availability and reduce down time.

The purpose of the new MK XII Interrogator (AN/UPX-27 replacement) is to replace 20-25 year old equipment with a Reliability and Maintenance enhancement through the use of COTS/NDI form/fit/function equipment.

The purpose of the SARTIS is to provide non-cooperative target recognition of hostile and neutral aircraft in addition to cooperative military aircraft for air defense.

FY 96 funds the procurement of 6 AN/UPM-155 MK XII Test Sets, various MK XII AIMS Improvements, 12 AN/UPX-25 Interrogator set, and various AN/UPX-29 Improvements and related installations.

FY 97 funds the procurement of 16 AN/UPM-155 MK XII Test Sets, 25 SARTIS units and various MK XII AIMS Improvements.

FY 98 funds the procurement of various MK XII AIMS Improvements, and 32 AN/UPX-27 Interrogator Replacements.

FY 99 funds the procurement of various MK XII AIMS Improvements, and 63 AN/UPX-27 Interrogator Replacements.

CLASSIFICATION: **UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS P-40a												DATE: February 1998
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY							P-1 ITEM NOMENCLATURE IDENTIFICATION SYSTEMS NAVAIRSYSCOM					
Procurement Items	ID Code	Prior Years	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
MT003 AN/UPM-155	A											
QTY		415	6	16			2				24	463
FUNDING		$21,836	$796	$2,128			$266				$3,192	$28,218
MT024 AN/UPX-25	A											
QTY		12	12									24
FUNDING		$1,263	$1,453									$2,716
MT031 AN/UPX-27 REPLA	A											
QTY					32	63	77	82	88	94	181	617
FUNDING					$4,800	$6,300	$7,700	$8,200	$8,800	$9,400	$18,100	$63,300
MT110 SARTIS	B											
QTY				25								25
FUNDING				$7,774								$7,774
OTHER COSTS		$55,280	$5,698	$8,501	$4,078	$8,004	$7,834	$8,433	$8,035	$7,358	CONT	CONT
TOTAL COST		$78,379	$7,947	$18,403	$8,878	$14,304	$15,800	$16,633	$16,835	$16,758	CONT	CONT

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System		DATE: February 1998
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy**	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD **IDENTIFICATION SYSTEMS NAVAIRSYSCOM 42MT**	

COST CODE	ELEMENT OF COST	ID Code	Prior Years	FY 1996			FY 1997			FY 1998			FY 1999		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
MT003	AN/UPM-155 MK XII RADAR TEST SET	A	21,836	6	133	796	16	133	2128						
MT010	ECPs/OCIRs	N/A													
MT016	MK XII AIMS IMPROVEMENTS	A	15,585	VAR		605	VAR		1151	VAR		289	VAR		1965
MT024	AN/UPX-25 INTERROGATOR SET (USCG)	A	1,263	12	121	1453									
MT027	AN/UPX-27 HARDWARE	A							150						
MT031	AN/UPX-27 REPLACEMENT	A								32	150	4800	63	100	6300
MT110	SARTIS	B					25	312	7774						
MT700	AN/UPX-29 IMPROVEMENTS (OP-N865)	A	16,831	VAR		788									
MT800	INTEGRATED LOGISTICS SUPPORT	N/A	3,612			679			698			990			1165
MT830	PRODUCTION ENGINEERING	N/A	5,241			1831			3963			1578			1168
MT840	QUALITY ASSURANCE	N/A							60						
MT850	PRODUCT IMPROVEMENT	N/A							398						
MT860	ACCEPTANCE TEST & EVALUATION	N/A	1,957			314			1600			365			700
MT870	DEPOT	N/A	357			276						351			562
MT900	INSTALLATION OF EQUIPMENT (NON-FMP)	N/A	3,399			1205			451			505			2194
MT910	INSTALLATION OF EQUIPMENT (FMP)	N/A													250
MT990	INITIAL TRAINING	N/A	276						30						
	VARIOUS 1/		8,022												
	TOTAL		78,379			7,947			18,403			8,878			14,304

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

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UNCLASSIFIED

1/ THE AMOUNT IDENTIFIED AGAINST THE COST ELEMENT "VARIOUS" REFLECTS TOTAL PRIOR YEAR FUNDING ASSOCIATED WITH COST ELEMENTS NO LONGER FINANCED IN FY95 AND BEYOND.

NOTE: MT024-AN/UPX-25 INTERROGATOR SET (USCG)- COAST GUARD WILL INSTALL HARDWARE.

NOTE: MT031 FY-98 PROCURES 28 PRODUCTION UNITS @ 100K EACH AND 4 FIRST ARTICLE UNITS @ 100K EACH, NON-RECURRING COST FOR THESE 4 UNITS @ 400K FOR A TOTAL OF 1.6 MILLION.

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A) | Weapon System | A. DATE **February 1998**

B. APPROPRIATION/BUDGET ACTIVITY: **Other Procurement, Navy** — **BA2 - Communications and Electronics Equipment**

C. P-1 ITEM NOMENCLATURE: **IDENTIFICATION SYSTEMS NAVAIRSYSCOM** — SUBHEAD: **42MT**

Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
MT003 AN/UPM-155 RTS										
FY95	11	54	NAVAIR	12/95	SS/FP	NAVCOM EL MONTE CA	04/95	12/96	YES	
FY96	6	133	NAVAIR	12/96	SS/FP	NAVCOM EL MONTE CA	10/97	12/98	YES	
FY97	8	133	NAVAIR	12/96	SS/FP	NAVCOM EL MONTE CA	10/97	12/98	YES	
FY97	8	133	NAVAIR	01/98	SS/FP	NAVCOM EL MONTE CA	03/98	05/99	YES	
MT031 AN/UPX-27 REPLACE										
FY98	32	150	NAVAIR	06/97	C/FP	TBD	02/98	12/99	YES	
FY99	63	100	NAVAIR	06/97	C/FP	TBD	12/98	12/00	YES	
MT110 SARTIS										
FY97	25	312	NAVAIR	06/97	C/FPI	TBD	01/98	9/98	YES	

D. REMARKS

MT003 SIGNIFICANT INCREASE IN UNIT COST IS DUE TO REDUCTION IN PROCUREMENT QUANTITIES.
AWARD OF SECOND QUANTITY OF 8 IN FY97 APPROPRIATION IS DUE TO FORWARD FUNDING OF FY98 REQUIREMENTS CAUSED BY $2.1 MILLION SARTIS REDUCTION.
MT031 REDUCTION IN COST IN FY99 IS DUE TO NON-RECURRING COSTS IN FY98 FOR $1.6M.

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AN/UPX-27 TYPE MODIFICATION: RELIABILITY MODIFICATION TITLE: MK XII IMPROVEMENTS AN/UPX-27 fc10 (MT016)

DESCRIPTION/JUSTIFICATION:

This modification enables the system to interface with new ships systems required for fleet operations.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Fielded

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								
PROCUREMENT																								
INSTALLATION KITS	600	0.749			74	0.111	133	0.200													150	0.225	957	1.285
INSTALLATION KITS - UNIT COST		0.001				0.002		0.002																
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST	223	0.223	0	0.000	366	0.366	85	0.085	67	0.067	66	0.066	0	0.000	0	0.000	0	0.000	0	0.000	150	0.150	957	0.957
TOTAL PROCUREMENT		0.972		0.000		0.477		0.285		0.067		0.066		0.000		0.000		0.000		0.000		0.375		2.242

The total quantity reflects the inventory objective for this item.

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: **AN/UPX-27**

MODIFICATION TITLE: MK XII IMPROVEMENTS AN/UPX-27 fc10 (MT016)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 9 Months
PRODUCTION LEADTIME: 12 Months
CONTRACT DATES: FY 1997: 06/97 FY 1998: N/A FY 1999: 06/99
DELIVERY DATE: FY 1997: 06/98 FY 1998: N/A FY 1999: 06/00

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS	**223**	**0.223**			366	**0.366**	11	**0.011**															600	**0.600**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT							74	**0.074**															74	**0.074**
FY 1997 EQUIPMENT									67	**0.067**	66	**0.066**											133	**0.133**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																					150	**0.150**	150	**0.150**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002			FY 2003				TC	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	2	3	4	1	2	3	4		TOTAL
In	589	11	0	37	37	0	0	33	34	33	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	957
Out	589	11	0	37	37	0	0	33	34	33	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	957

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AN/UPX-25 V()

TYPE MODIFICATION: RELIABILITY

MODIFICATION TITLE: MK XII IMPROVEMENTS CY-7558 fc2 (MT016)

DESCRIPTION/JUSTIFICATION:

This modification prevents RF emissions from the AN/UPX-25 when the mute system is activated from an AN/SSQ-82.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Fielded

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								
PROCUREMENT																								
INSTALLATION KITS									60	0.015													60	0.015
INSTALLATION KITS - UNIT COST										0.000														
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST											60	0.180											60	0.180
TOTAL PROCUREMENT		0.000		0.000		0.000		0.000		0.015		0.180		0.000		0.000		0.000		0.000		0.000		0.195

The total quantity reflects the inventory objective for this item.

CLASSIFICATION: UNCLASSIFIED

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

MODELS OF SYSTEMS AFFECTED: **ID SYSTEMS** MODIFICATION TITLE MK XII IMPROVEMENTS CY-7558 fc2 (MT016)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 18 Months
CONTRACT DATES: FY 1997: N/A FY 1998: Jan-98 FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: Jul-99 FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complet		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT											60	**0.180**											60	**0.180**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
Out	0	0	0	0	0	0	0	0	0	0	0	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AN/UPA-59B

TYPE MODIFICATION: RELIABILITY

MODIFICATION TITLE: MK XII IMPROVEMENTS AN/UPA-59B fc3 (MT016)

DESCRIPTION/JUSTIFICATION:

This field change modifies decoder group AN/UPA-59B to use the gated range strobe from indicator group AN/SPA-25E and G indicators.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Fielded

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								
PROCUREMENT																								
INSTALLATION KITS	537	3.759	232	1.624			136	0.951	39	0.274	45	0.315	150	1.050									1139	7.973
INSTALLATION KITS - UNIT COST		0.007		0.007				0.007		0.007		0.007		0.007										
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST	0	0.000	371	0.371	0	0.000	134	0.134	205	0.205	274	0.274	5	0.005	150	0.150	0	0.000	0	0.000	136	0.136	1139	1.139
TOTAL PROCUREMENT		3.759		1.995		0.000		1.085		0.479		0.589		1.055		0.150		0.000		0.000		0.136		9.112

The total quantity reflects the inventory objective for this item.

CLASSIFICATION: **UNCLASSIFIED**

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

MODELS OF SYSTEMS AFFECTED: **AN/UPA-59B** MODIFICATION TITLE: MK XII IMPROVEMENTS AN/UPA-59B fc3 (MT016)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 7 Months PRODUCTION LEADTIME: 12 Months
CONTRACT DATES: FY 1997: N/A FY 1998: Apr-98 FY 1999: Apr-99
DELIVERY DATE: FY 1997: N/A FY 1998: Apr-99 FY 1999: Apr-00

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS			**371**	**0.371**			134	**0.134**	32	**0.032**													537	**0.537**
FY 1995 EQUIPMENT									173	**0.173**	59	**0.059**											232	**0.232**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT											136	**0.136**											136	**0.136**
FY 1998 EQUIPMENT											39	**0.039**											39	**0.039**
FY 1999 EQUIPMENT											40	**0.040**	5	**0.005**									45	**0.045**
FY 2000 EQUIPMENT															150	**0.150**							150	**0.150**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	769	0	0	0	0	0	0	0	0	44	44	44	43	0	0	45	0	0	0	75	75	0	0	0	0	0	0	0	0	0	1139
Out	371	33	34	33	34	52	51	51	51	68	69	68	69	0	0	5	0	0	0	75	75	0	0	0	0	0	0	0	0	0	1139

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AN/UPA-59A

TYPE MODIFICATION: RELIABILITY

MODIFICATION TITLE: MK XII IMPROVEMENT AN/UPA-59A fc8 (MT016)

DESCRIPTION/JUSTIFICATION:

This change is required for the decoder group AN/UPA-59A to properly interface with the AN/SPA-25E and G indicators.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Fielded

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								
PROCUREMENT																								
INSTALLATION KITS	825	5.363	248	1.612	76	0.494					254	1.650											1403	9.119
INSTALLATION KITS - UNIT COST		0.007		0.007		0.007						0.007												
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST	0	0.000	550	0.550	203	0.203	96	0.096	233	0.233	84	0.084	120	0.120	117	0.117	0	0.000	0	0.000	0	0.000	1403	0.000
TOTAL PROCUREMENT		5.363		2.162		0.697		0.096		0.233		1.734		0.120		0.117		0.000		0.000		0.000		9.119

The total quantity reflects the inventory objective for this item.

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: **AN/UPA-59A**

MODIFICATION TITLE MK XII IMPROVEMENTS AN-UPA59A FC8 (MT016)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 4 Months
PRODUCTION LEADTIME: 6 Months
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: Jan-99
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: Jul-99

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complet		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS			**550**	**0.550**	203	**0.203**	72	**0.072**															825	**0.825**
FY 1995 EQUIPMENT							24	**0.024**	224	**0.224**													248	**0.248**
FY 1996 EQUIPMENT									9	**0.009**	67	**0.067**											76	**0.076**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT											17	**0.017**	120	**0.120**	117	**0.117**							254	**0.254**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	753	24	24	24	24	58	58	58	59	58	9	0	60	60	9	0	60	60	5	0	0	0	0	0	0	0	0	0	0	0	1403
Out	753	24	24	24	24	58	58	58	59	58	9	0	17	60	52	0	8	60	57	0	0	0	0	0	0	0	0	0	0	0	1403

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AN/UPX-27 TYPE MODIFICATION: RELIABILITY MODIFICATION TITLE: AN/UPX-27 Replacement (MT031)

DESCRIPTION/JUSTIFICATION:

Current AN/UPX-27 is late 60s early 70s technology and is no longer as reliable as required.
Due to its age it is hard to maintain because of obsolescence. A more reliable system with the same functionality is required.
Maintenance alignments requirements are continually a problem with the current system, however should no longer be a problem with the current technology available.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **MS III decision 12/97**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								
PROCUREMENT																								
INSTALLATION KITS																								
INSTALLATION KITS - UNIT COST																								
INSTALLATION KITS NONRECURRING																								
EQUIPMENT									32	4.800	63	6.300	77	7.700	82	8.200	88	8.800	94	9.400	181	18.100	**617**	63.300
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST											4	0.090	28	0.579	63	1.057	77	1.157	82	1.230	363	5.215	**617**	9.328
TOTAL PROCUREMENT		0.000		0.000		0.000		0.000		4.800		6.390		8.279		9.257		9.957		10.630		23.315		72.628

Thirty-two (32) units are being procured in FY98 of which four (4) are First Article Units.
Non-recurring costs of $1.6M are in connection with First Article Units.
The total quantity reflects the inventory objective for this item.

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

MODELS OF SYSTEMS AFFECTED: **AN/UPX-27** MODIFICATION TITLE: AN/UPX-27 Replacement (MT031)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 5 Months PRODUCTION LEADTIME: 24 Months
CONTRACT DATES: FY 1997: N/A FY 1998: 02/98 FY 1999: 12/98
DELIVERY DATE: FY 1997: N/A FY 1998: 02/00 FY 1999: 12/00

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT											4	**0.090**	28	**0.579**									32	**0.669**
FY 1999 EQUIPMENT															63	**1.057**							63	**1.057**
FY 2000 EQUIPMENT																	77	**1.157**					77	**1.157**
FY 2001 EQUIPMENT																			82	**1.230**			82	**1.230**
FY 2002 EQUIPMENT																					88	**1.232**	88	**1.232**
FY 2003 EQUIPMENT																					94	**1.316**	94	**1.316**
TO COMPLETE																					181	**2.667**	181	**2.667**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	10	14	14	15	16	18	19	19	19	20	20	20	21	21	363	617
Out	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	10	14	14	15	16	18	19	19	19	20	20	20	21	21	363	617

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: CG's TYPE MODIFICATION: UPGRADE MODIFICATION TITLE: SARTIS (MT110)

DESCRIPTION/JUSTIFICATION:

Congressional plus-up to complete production/deployment for remaining 22 cruisers and 3 shore sites.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **Updating specification & revisiting Milestone III July '97 for contract award Aug '97.**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)				0			0			0														
RDT&E																								
PROCUREMENT																								
INSTALLATION KITS																								
INSTALLATION KITS - UNIT COST																								
INSTALLATION KITS NONRECURRING																								
EQUIPMENT							25	7.774															25	7.774
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST	0	0.000	0.0	0.000	0	0.000	0	0.000	0	0.000	AP	0.250	14	1.124	11	0.760	0	0.000	0	0.000	0	0.000	25	2.134
TOTAL PROCUREMENT		0.000		0.000		0.000		7.774		0.000		0.250		1.124		0.760		0.000		0.000		0.000		9.908

The total quantity reflects the inventory objective for this item.

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: **CG's**

MODIFICATION TITLE SARTIS (MT110)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 12 Months
PRODUCTION LEADTIME: 12 Months
CONTRACT DATES: FY 1997: Jan-98 FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: Jan-99 FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complet		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT											AP	**0.250**	14	**1.124**	11	**0.760**							25	**2.134**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	0	0	0	0	0	0	0	0	0	0	0	0	1	6	6	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	3	4	3	3	3	2	0	0	0	0	0	0	0	0	0	25

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: IDENTIFICATION SYSTEMS

TYPE MODIFICATION: R & M

MODIFICATION TITLE: AN/UPX-29 IMPROVEMENTS OE-120/UPX FIELD CHANGE 1 (MT700)

DESCRIPTION/JUSTIFICATION:

Adds capability of detecting interrogator side lobe suppression trigger loss from interrogator set which will result in the automatic inhibiting of the ISLS pulse from the transmitted pulse sequence. Also replaces obsolete microprocessor and improves built-in test equipment performance.

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

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								
PROCUREMENT																								
INSTALLATION KITS	53	0.963																					53	0.963
INSTALLATION KITS - UNIT COST		0.018																						
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	35	0.636	10	0.000	8	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	53	0.636
TOTAL PROCUREMENT		0.963		0.000		0.636		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		1.599

The total quantity reflects the inventory objective for this item.

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: **IDENTIFICATION SYSTEMS**

MODIFICATION TITLE AN/UPX-29 IMPROVEMENTS OE-120/UPX FIELD CHANGE 1 (MT700)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: N/A
PRODUCTION LEADTIME: N/A
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS					35	**0.636**																	35	**0.636**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT							10																10	**0.000**
FY 1998 EQUIPMENT									8														8	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	53	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	53
Out	35	2	3	3	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53

**Funding provided for installations by NAVSEA.

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: IDENTIFICATION SYSTEMS

TYPE MODIFICATION: R & M

MODIFICATION TITLE: AN/UPX-29 IMPROVEMENTS AN/UPX-24(V) FIELD CHANGE 4 (MT700)

DESCRIPTION/JUSTIFICATION:

Improve IFF Target Processing, improved interface to combat system, and by-pass operations (back up mode to the main processor.)

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

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								
PROCUREMENT																								
INSTALLATION KITS	18	1.134	24	2.802	10	0.788																	52	4.724
INSTALLATION KITS - UNIT COST		0.063		0.117		0.078																		
INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
EQUIPMENT NONRECURRING																								
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	32	1.500	11	0.600	4	0.241	6	0.400	0	0.000	0	0.000	53	2.741
TOTAL PROCUREMENT		1.134		2.802		0.788		0.000		0.000		1.500		0.600		0.241		0.400		0.000		0.000		7.465

The total quantity reflects the inventory objective for this item.

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: **IDENTIFICATION SYSTEMS**

MODIFICATION TITLE AN/UPX-29 IMPROVEMENTS AN/UPX-24(V) fc 4 (MT700)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: N/A
PRODUCTION LEADTIME: N/A
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS											18	**0.844**											18	**0.844**
FY 1995 EQUIPMENT											14	**0.656**	10	**0.545**									24	**1.201**
FY 1996 EQUIPMENT													1	**0.055**	4	**0.241**	6	**0.400**					11	**0.696**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	0	0	0	5	15	15	15	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Out	0	0	0	0	0	0	0	0	0	10	8	8	6	2	3	6	0	3	1	0	0	1	3	2	0	0	0	0	0	0	53

Exhibit P-20, Requirements Study

CLASSIFICATION: **UNCLASSIFIED**

Exhibit P-20, Requirements Study	APPROPRIATION/BUDGET ACTIVITY **OP,N 1810/BA 2 COMMUNICATIONS AND ELECTRONICS EQUIPMENT**	DATE: **February 1998**
P-1 ITEM NOMENCLATURE **AN/UPM 155 Radar Test Set**	Admin Leadtime (after Oct1): **6 MOS.**	Prod Leadtime : **18 MOS.**

	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary	**6**	**16**			**2**			
Unit Cost	**133**	**133**			**133**			
Total Cost	**$796**	**$2,128**			**$266**			
Asset Dynamics								
Beginning Asset Position	415	415	415	415	439	439	439	441
Deliveries from all prior year funding	0	0		8				
Deliveries from FY 1997 funding				16				
Deliveries from FY 1998 funding								
Deliveries from FY 1999 funding								
Deliveries from subsequent years' funding							2	
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End oy Year Asset Position	415	415	415	439	439	439	441	441
Inventory Objective or Current Authorized Allowance	463	463	463	463	463	463	463	463

Inventory Objective 463	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)		
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	Vehicles Eligible for FY 1999 Replacement:	PAA: TAI
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995:	Vehicle Augment:	Attrition Res:
Pipeline:	FY 1994:	FY 1994:	FY 1994:		BAI
Other:	FY 1993:	FY 1993:	FY 1993:		Inactive Inv:
TOTAL:					Storage:

Remarks:

FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-21

DATE February 1998

APPROPRIATION/BUDGET ACTIVITY

Other Procurement, Navy **BA2 - Communications and Electronics Equipment**

Weapon System

P-1 ITEM NOMENCLATURE

Identification Systems

Item	Manufacturer's Name and Location	Production Rate MSR	1-8-5	MAX	Procurement Leadtimes ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure
AN/UPM-155 Radar Test Set (RTS)	NAVCOM Defense Electronics	1	20	60	12	9	22	18	26	Months
	El Monte, CA									

ITEM / MANUFACTURER	FY	SVC	QTY	DEL	BAL	FISCAL YEAR 1997												FISCAL YEAR 1998												BAL
						1996			CALENDAR YEAR 1997									CALENDAR YEAR 1998												
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
AN/UPM-155 RTS NAVCOM OPN	96	N	6	0	6												A													6
AN/UPM-155 RTS NAVCOM OPN	97	N	16	0	16												A						A							16
AN/UPM-155 RTS NAVCOM SCN	95	N	1	0	1									A																1
AN/UPM-155 RTS NAVCOM SCN	96	N	1	0	1												A													1
AN/UPM-155 RTS NAVCOM SCN	97	N	4	0	4												A													4
AN/UPM-155 RTS NAVCOM FMS			1	0	1												A													1

ITEM / MANUFACTURER	FY	SVC	QTY	DEL	BAL	FISCAL YEAR 1999												FISCAL YEAR 2000												BAL
						1998			CALENDAR YEAR 1999									CALENDAR YEAR 2000												
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
AN/UPM-155 RTS NAVCOM OPN	96	N	6	0	6			6																						0
AN/UPM-155 RTS NAVCOM OPN	97	N	16	0	16			8					8																	0
AN/UPM-155 RTS NAVCOM SCN	95	N	1	0	1			1																						0
AN/UPM-155 RTS NAVCOM SCN	96	N	1	0	1			1																						0
AN/UPM-155 RTS NAVCOM SCN	97	N	4	0	4			4																						0
AN/UPM-155 RTS NAVCOM FMS			1	0	1			1																						0

Remarks:

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
ID SYSTEMS - SABER BLI 2851

SUBHEAD
52MT

	PY	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TO COMP	TOTAL
QUANTITY												
COST (in millions)	**0**	**0**	**0**	**0**	**0**	**$1.0**	**$4.2**	**$5.4**	**$5.3**	**$3.4**		**$19.3**

The Situational Awareness Beacon with Reply (SABER) system provides critical battlefield/operationg area situational awareness and friendly ID capabilities by uniting BPS and UHF/SATCOM technologies. The SABER system consists of a GPS receiver and two-way UHF radio capable of Over-The-Horizon (OTH) and Line-of Sight (LOS) communications. The GPS receiver maintains a constant accurate position of the user. When a correctly encoded interrogation signal is received by the SABER, it transmits a reply containing the users identification, position, time, heading, speed, altitude, GPS diagnostics, polling acknowlege and authorization codes. Additionally, SABER equipped units who are preparing to launch an attack will send an intent-to-shoot LOS transmission indication the target position and a kill radius. All SABER units on the network will compare the area with their own position. If an overlap exists, a "Don't Shoot" reply is sent to prevent friendly fire fratricide. SABER will be installed on ships and aircraft.

FY99 funding procures 27 SABER units and 1 Navy Standard Terminal. This is a new start procurement in FY99.

Installation Agent: Alteration Installation Teams

INDENT CODE: B

COST ANALYSIS

DATE: February 1998

APPROPRIATION ACTIVITY: OP,N - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE: ID SYSTEMS - SABER

SUBHEAD: 52MT

COST CODE	ELEMENT OF COST	ID CODE	TOTAL COST IN THOUSANDS OF DOLLARS																
			PY		FY 1995			FY 1996			FY 1997			FY 1998			FY 1999		
			QTY	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
??001	Production Support	A															N/A		55
??002	SABER	B															27	28	750
??003	Navy Standard Terminal	B															1	55	55
??777	Installation	A															N/A		166
	TOTAL			**0**			**0**			**0**			**0**			**0**			**1,026**

DD FORM 2446, JUN 86

P-1 SHOPPING LIST

Exhibit P-5

ITEM NO. 86 PAGE NO. 2

PROCUREMENT HISTORY AND PLANNING

A. DATE February 1998

B. APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

C. P-1 ITEM NOMENCLATURE ID SYSTEMS - SABER BLI 2851

SUBHEAD 52MT

COST CODE	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
??002	SABER											
	FY99/Comp	FY99	TBD	FFP1	SPAWAR	Jun-98	Oct-98	Apr-99	27	$27,730	No	
??003	Navy Standard Terminal					Jan-00						
		FY99	SSC CHARLESTON	WX/RCP	SSC	Jun-98	Oct-98	Apr-99	1	$55,000	No	

D. REMARKS

MODIFICATION TITLE: ID SYSTEMS - SABER (52??) SABER (??002)
MODELS OF SYSTEMS AFFECTED: SABER will be installed on ships and aircraft
DESCRIPTION/JUSTIFICATION: The Situational Awareness Beacon with Reply (SABER) system provides critical battlefield/operating area situational awareness and friendly ID capabilitits by uniting BPS and UHF/SATCOM technologies.

The SABER system consists of a GPS receiver and two-way UHF radio capable of Over-The_Horizon (OTH) and Line-of-Sight (LOS) communications. The GPS receiver maintains a constant accurate position of the user.
When a correctly encoded interrogation signal is received by the SABER, it transmits a reply containing the users identification, position, time, heading, speed, altitude, GPS diagnostics, polling acknowlege and authorization code

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits				1																				
Installation Kits Nonrecurring																								
Equipment											27	0.8	147	3.1	195	4.0	193	4.0	118	2.4	120	3.3	800	16.7
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other												0.1		0.3		0.3		0.3		0.3		0.2		1.5
Interm Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	27	0.2	147	0.8	195	1.0	193	1.1	118	0.6	120	0.7	800	4.4
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP																							0	0.0
FY 98 EQUIP																							0	0.0
FY 99 EQUIP											27	0.2											27	0.2
FY 00 EQUIP													147	0.8									147	0.8
FY 01 EQUIP															195	1.0							195	1.0
FY 02 EQUIP																	193	1.1					193	1.1
FY 03 EQUIP																			118	0.6			118	0.6
FY TC EQUIP																					120	0.7	120	0.7
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.0		0.2		0.8		1.0		1.1		0.6		0.7		4.4
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.0		0.0		1.0		3.9		5.0		5.1		3.0		4.0		21.1

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 months PROCUREMENT LEADTIME: 7 months

CONTRACT DATES: FY 1996: FY 1997: FY 1998: FY 1999: Oct-98

DELIVERY DATES: FY 1996: FY 1997: FY 1998: FY 1999: Apr-99

INSTALLATION SCHEDULE:	PY	FY 95 1	FY 95 2	FY 95 3	FY 95 4	FY 96 1	FY 96 2	FY 96 3	FY 96 4	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT																				9	18
OUTPUT																				9	18

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT			36	37	37	37	48	49	49	49	48	48	48	49	49	49	218	800
OUTPUT			36	37	37	37	48	49	49	49	48	48	48	49	49	49	218	800

Note: The total program quantity reflects the inventory objective for this item.

UNCLASSIFIED
CLASSIFICATION

PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE
February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
ID SYSTEMS - SABER BLI 2851

SUBHEAD NO.
52MT

COST CODE	ITEM/MANUFACTURER/ PROCUREMENTY YEAR	FISCAL YEAR	CARRY OVER	FISCAL YEAR 99												FISCAL YEAR 00												FISCAL YEAR 01												LATER
				CY98			CALENDAR YEAR 99												CALENDAR YEAR 00												CALENDAR YEAR 01										
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
??002	SABER	99		A						3	3	3	6	6	6																									
??003	Navy Standard Terminal	99	1	A						1																														
																																								0
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST
ITEM NO. 86
PAGE NO. 5

UNCLASSIFIED
CLASSIFICATION

CLASSIFICATION: **UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET P-40	DATE: February 1998
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY**	P-1 ITEM NOMENCLATURE **Surface Identification Systems** **NARM #285600**
Program Element for Code B Items: **Not Applicable**	Other Related Program Elements **Not Applicable**

	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	$4.6	A	$8.4	**$0.0**	**$0.0**	**$5.3**	**$2.9**	**$1.7**	**$1.7**	**$1.7**	**CONT.**	**CONT.**

DESCRIPTION:

Surface Identification Systems fund procurement of the AN/SLQ-20 upgrade to improve the capability of the AN/SLQ-20A, Auto-ID prototype upgrades, and the installation of Shipboard Advanced Radar Target Identification System (SARTIS) AN/UPX-34 RTDS ruggedized prototypes.

The AN/SLQ-20 upgrade improves the capability of the Vietnam-era AN/SLQ-20A EW System for AEGIS class ships. SARTIS is a Non-Cooperative Target Recognition (NCTR) System for AEGIS class cruisers. Auto-ID is a laboratory prototype deployed during the Gulf War on CV/CVNs; due to other upgrades on CV/CVNs, Auto-ID needs to be upgraded.

FY96 and FY99 funds procure and install the following:

FY96 provides funding to: procure and install four (4) Auto-ID prototype upgrades (for crossdecking), install one (1) SARTIS prototype unit, and forward fund the procurement of five (5) AN/SLQ-20 EW System upgrades in the FY97/98 time frame.

FY99 provides funding to: procure four (4) AN/SLQ-20 EW System upgrades and installation of 2 previously procured units.

Installing Agent: Alteration Installation Teams
When Installation to be made: N/A
Ships or facilities to receive the equipment: CG-47 Class, DDG-51 Class, and CV/CVN Class

CLASSIFICATION: **UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS P-40a												DATE: February 1998
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY** **BA2 - Communication and Electronics Equipment**							P-1 ITEM NOMENCLATURE **Surface Identification Systems**					
Procurement Items	ID Code	Prior Years	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
DB011 AN/SLQ-20	A											
QTY		2	**5**			**4**	**2**	**1**	**1**	**1**	**3**	**19**
FUNDING		$4,122	**$6,798**			**$4,775**	**$2,433**	**$1,243**	**$1,268**	**$1,296**	**$4,134**	**$26,069**
DB013 AUTO ID	A											
QTY			4								1	**5**
FUNDING			$1,100								$333	**$1,433**
OTHER COSTS		503	$534			$546	$488	$430	$422	$388	CONT.	**CONT.**
TOTAL		$4,625	$8,432			$5,321	$2,921	$1,673	$1,690	$1,684	CONT.	CONT.

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System		DATE: February 1998
APPROPRIATION/BUDGET ACTIVITY	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD	
Other Procurement, Navy **BA2 - Communications and Electronics Equipment**	**A**	**Surface Identification Systems 42DB**	

COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS Prior Years Total Cost	FY 1996 Quantity	FY 1996 Unit Cost	FY 1996 Total Cost	FY 1997 Quantity	FY 1997 Unit Cost	FY 1997 Total Cost	FY 1998 Quantity	FY 1998 Unit Cost	FY 1998 Total Cost	FY 1999 Quantity	FY 1999 Unit Cost	FY 1999 Total Cost
DB010	AN/UPX-34 SARTIS	A	24												
DB011	AN/SLQ-20 UPGRADE NOTES: 1,2,&3	A	4,122	5	1,360	6,798							4	1,194	4,775
DB013	AUTO-ID UPGRADE	A		4	275	1,100									
DB800	INTEGRATED LOGISTICS SUPPORT	NA	146			115									93
DB830	PRODUCTION ENGINEERING	NA	179			109									94
DB840	QUALITY ASSURANCE	NA	38			15									53
DB860	ACCEPTANCE, TEST & EVALUATION	NA													96
DB900	INSTALLATION (NON-FMP)	NA													29
DB910	INSTALLATION (FMP) NOTE: 4	NA	116			295									181
	4,625					**8,432**			**0**			**0**			**5,321**

NOTE: 1 - Related RDT&E Elements
WO676 IMPROVED ID DEVELOPMENTS

NOTE: 2 - FY95 Procurement Cost is $1,175 with NonRecurring Costs of $1,772

NOTE: 3 - FY96 Procurement Cost is $1,175 with NonRecurring Costs of $923

NOTE: 4 - FY96 Reflects installation of 1 SARTIS unit originally procured with RDT&E funds will now be installed aboard AEGIS (CG-47 Class) Cruisers for Fleet use.

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE February 1998
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy — BA2 - Communications and Electronics Equipment	C. P-1 ITEM NOMENCLATURE Surface Identification Systems	SUBHEAD 42DB

Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
DB011 AN/SLQ-20 EW SYSTEM UPGRADE										
FY95	2	2,061.0	SPAWARSYSCEN San Diego, CA	12/96	C/FP	SPAWARSYSCEN San Diego, CA	05/97	11/98	YES	
FY96	5	1,359.6	SPAWARSYSCEN San Diego, CA	12/96	C/OPTION	SPAWARSYSCEN San Diego, CA	05/97	01/99	YES	
FY99	4	1,193.8	SPAWARSYSCEN San Diego, CA	08/98	C/OPTION	SPAWARSYSCEN San Diego, CA	03/99	06/01	YES	

D. REMARKS

CLASSIFICATION: **UNCLASSIFIED**

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SURFACE ID TYPE MODIFICATION: UPGRADE MODIFICATION TITLE: AN/UPX-34 SARTIS - DB010

DESCRIPTION/JUSTIFICATION:

International Incident/Congressional direction (new capability). SARTIS will enable positive identification of aircraft. SARTIS will provide a core processor capable of interacting with two radars and dual channel Navy Tactical Data Systems.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **Received Milestone III Approval in Feb 95.**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E	2	1.383																					2	1.383
PROCUREMENT																								
INSTALLATION KITS																							0	0.000
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT																								0.000
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	1	0.116	1	0.080	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	2	0.196
TOTAL PROCUREMENT		1.383		0.116		0.080	0		0		0		0		0		0		0		0		2	1.579

Total I/O: 30 systems, which are currently reflected in the Identification Systems (42MT) budget line.

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: **SURFACE ID**

MODIFICATION TITLE: AN/UPX-34 SARTIS - DB010

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: N/A
PRODUCTION LEADTIME: N/A
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS			**1**	**0.116**	1	**0.080**																	2	**0.196**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT																							0	**0.000**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																							0	**0.000**

INSTALLATION SCHEDULE:

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Out	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SURFACE ID TYPE MODIFICATION: UPGRADE MODIFICATION TITLE: AN/SLQ-20 UPGRADE - DB011

DESCRIPTION/JUSTIFICATION:

Upgrade improves the capacity of the Vietnam-era AN/SLQ-20A EW System for AEGIS class ships.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **Received Milestone III Approval in Jan 97**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E	2	10.93																					2	10.930
PROCUREMENT																								
INSTALLATION KITS																							0	0.000
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT			2	2.350	5	5.875					4	4.775	2	2.433	1	1.243	1	1.268	1	1.296	3	4.134	19	23.374
EQUIPMENT NONRECURRING				1.772		0.923																		2.695
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	0	0.035	0	0.000	0	0.000	3	0.210	4	0.369	4	0.311	2	0.192	1	0.096	5	0.500	19	1.713
TOTAL PROCUREMENT		0.000		4.122		6.833		0.000		0.000		4.985		2.802		1.554		1.460		1.392		4.634		27.782

Total I/O: 19 Systems.

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: **SURFACE ID**

MODIFICATION TITLE: AN/SLQ-20 UPGRADE - DB011

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 5 Months
PRODUCTION LEADTIME: 18 Months
CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: 3/99
DELIVERY DATE: FY 1997: N/A FY 1998: N/A FY 1999: 9/00

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT											2	**0.181**											2	**0.181**
FY 1996 EQUIPMENT					AP	**0.035**					1	**0.029**	4	**0.369**									5	**0.433**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT															4	**0.311**							4	**0.311**
FY 2000 EQUIPMENT																	2	**0.192**					2	**0.192**
FY 2001 EQUIPMENT																			1	**0.096**			1	**0.096**
FY 2002 EQUIPMENT																					1	**0.100**	1	**0.100**
FY 2003 EQUIPMENT																					1	**0.100**	1	**0.100**
TO COMPLETE																					3	**0.300**	3	**0.300**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	1	5	19
Out	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	5	19

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SURFACE ID TYPE MODIFICATION: COMPATIBILITY MODIFICATION TITLE: Auto ID Upgrade - DB013

DESCRIPTION/JUSTIFICATION:

Auto-ID units were laboratory prototypes built by JHU/APL with RDT&E funds to support the Gulf War. These R&D units have been cross-decked on carriers (CV/CVNs) with O&M,N since; but changes to carrier radars and software require Auto-ID upgrades.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **Received Advanced Combat Direction System Block 0, Level 10 Approval and Fleet Delivery Readiness Review Approval in Jan 97.**

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																							0	0.000
PROCUREMENT																								
INSTALLATION KITS																							0	0.000
INSTALLATION KITS NONRECURRING																								0.000
EQUIPMENT					4	1.100															1	0.333	5	1.433
EQUIPMENT NONRECURRING																								0.000
ENGINEERING CHANGE ORDERS																								0.000
DATA																								0.000
TRAINING EQUIPMENT																								0.000
SUPPORT EQUIPMENT																								0.000
OTHER																								0.000
OTHER																								0.000
OTHER																								0.000
INTERIM CONTRACTOR SUPPORT																								0.000
INSTALL COST	0	0.000	0	0.000	4	0.180	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1	0.050	5	0.230
TOTAL PROCUREMENT				0.000		1.280	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.383		1.663

Total I/O: 9 Systems. (5 OPN, 4 RDT&E prototype.)

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

MODELS OF SYSTEMS AFFECTED: **SURFACE ID** MODIFICATION TITLE: Auto ID Upgrade - DB013

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **AIT**
ADMINISTRATIVE LEADTIME: 2 Month PRODUCTION LEADTIME: 7 Months
CONTRACT DATES: FY 1997: N/A * FY 1998: N/A FY 1999: N/A
DELIVERY DATE: FY 1997: 06/97 FY 1998: N/A FY 1999: N/A

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																							0	**0.000**
FY 1995 EQUIPMENT																							0	**0.000**
FY 1996 EQUIPMENT					4	**0.180**																	4	**0.180**
FY 1997 EQUIPMENT																							0	**0.000**
FY 1998 EQUIPMENT																							0	**0.000**
FY 1999 EQUIPMENT																							0	**0.000**
FY 2000 EQUIPMENT																							0	**0.000**
FY 2001 EQUIPMENT																							0	**0.000**
FY 2002 EQUIPMENT																							0	**0.000**
FY 2003 EQUIPMENT																							0	**0.000**
TO COMPLETE																					1	**0.050**	1	**0.050**

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5
Out	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5

* In house build

BUDGET ITEM JUSTIFICATION SHEET P-40	DATE: February 1998
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY, BA-2-Communications and Electronics Equipm**	P-1 ITEM NOMENCLATURE **Tactical Automated Mission Planning System(TAMPS)**
Program Element for Code B Items:	Other Related Program Elements

	Prior Years*	ID Code	FY 1996*	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	49.7		**$4.9**	**$9.5**	**$15.3**	**$23.7**	**$23.1**	**$16.9**	**$20.5**	**$14.4**	**CONT**	**CONT**

Tactical Automated Mission Planning System (TAMPS)
This line item provides funding to procure TAMPS for USN/USNR/USMC/USMCR. Program cost is not directly related to FY hardware quantity; software is a major cost factor independent of FY hardware quantity and cost. Installations are planned for aviation capable ships, air stations, aviation training/support facilities and deployed aviation units. Items to be funded in this line include:

Work Station Components - TAMPS procures tactical computer hardware through the non-developmental item acquisition strategy. Tactical computer equipment is used to plan and analyze aircraft routes under various mission configurations and operational threat environments. Primary output is route plans for mission execution. New workstations consist of the components to make a complete workstation.

Production Support Services - Cost element includes production support services, engineering support services, independent verification and validation test and acceptance, site activation, quality assurance efforts, etc.

Software Releases - TAMPS produces software releases via an evolutionary acquisition process. These releases contain enhancements based on fleet inputs and emerging technology. They also contain changes required to retain compatibility with supported platforms, associated weapons, and threat and imagery data bases providing input to TAMPS. **Software releases are independent of hardware buys.**

The hardware mix has changed due to N62/N88 direction to accelerate migration to Global Command and Control System (GCCS)/Defense Information Infrastructure - Common Operating Environment (DII-COE) based environment. PMA-233 will provide installed Mission Panning hardware, servers and planning stations , on a 3 year replacement cycle. The hardware mix has changed to reduce seat costs and support throughput requirements of servers and laptop PCs.

* FY96 and prior funding is budgeted under the BA-3 Other Aviation Support Equipment program. Starting in FY97, TAMPS became its own line item under BA-2.

CLASSIFICATION: **UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS P-40a												DATE: February 1998
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY, BA-2-Communications and Electronics Equipment**							P-1 ITEM NOMENCLATURE **Tactical Automated Mission Planning System(TAMPS)**					
Procurement Items	ID Code	Prior Years	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
New Workstations												
Quantity		210	43	65								318
Funding		11.8	3.0	3.7								18.5
Enterprise Server												
Quantity					15	17	19	19	30	15	Cont	Cont
Funding					2.3	2.6	2.9	3.0	4.8	2.4	Cont	Cont
Local Server												
Quantity					131	94	65	131	94	65	Cont	Cont
Funding					5.9	4.3	3.0	6.2	4.5	3.2	Cont	Cont
Unit LevelSystem												
Quantity					100	789	900	309	427	254	Cont	Cont
Funding					1.1	8.9	10.3	3.6	5.0	3.0	Cont	Cont
Force Level System												
Quantity					30	84	117	51	114	117	Cont	Cont
Funding					0.5	1.5	2.2	0.6	1.3	1.4	Cont	Cont
Trusted System												
Quantity					15	32	15	8	47	15	Cont	Cont
Funding					0.7	1.5	0.7	0.1	0.6	0.2	Cont	Cont
Other Costs		37.9	1.9	5.8	4.8	4.9	3.9	3.5	4.2	4.1	Cont	Cont
Total P-1 Funding		49.7	4.9	9.5	15.3	23.7	23.1	16.9	20.5	14.4	CONT	CONT

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS **P-5**	Weapon System Various	DATE: **February 1998**
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA-2-Communications and Electronics Equipment**	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD **Tactical Automated Mission Planning System(TAMPS) / Y2S7**

COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years*	FY 1996*			FY 1997			FY 1998			FY 1999		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
S7400	New Workstations		11,763	43	70	2,992	65	57	3,724						
S7401	Enterprise Server									15	150	2,250	17	152	2,591
S7402	Local Server									131	45	5,931	94	46	4,324
S7403	Unit Level System									100	11	1,104	789	11	8,853
S7406	Force Level System									30	18	540	84	18	1,536
S7407	Trusted System									15	45	679	32	46	1,472
S7410	Software Release		27,772			1,110			4,612			2,344			1,356
S7430	Production Support		9,254			761			808			2,053			1,413
S7900	Non-FMP Installation		928			14			307			437			1,746
S7910	FMP-Installation														375
	* FY96 and prior funding is budgeted under the BA-3 Other Aviation Support Equipment program. Starting in FY97, TAMPS became its own line item under BA-2.														
	TOTALS:		**49,717**	**43**		**4,877**	**65**		**9,451**	**291**		**15,338**	**1,016**		**23,666**

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System Various	A. DATE February 1998
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-2-Communications and Electronics Equipment	C. P-1 ITEM NOMENCLATURE Tactical Automated Mission Planning System(TAMPS)	SUBHEAD Y2S7

Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY96	43	69.6 (New)	GSA	N/A	C/FFP	Planning Technologies, Inc. Atlanta GA	04/96	06/96	N/A	N/A
FY97	65	57.3 (New)	NFAC CAD2	N/A	C/FFP	Cordant, Inc., Reston,VA Intergraph Corp. Huntsville, AL	01/97	04/97	N/A	N/A
FY98			NAVAIR CAD2	N/A	C/FFP	TBD	01/98	04/98	N/A	N/A
Enterprise Server	15	150.0								
Local Server	131	45.3								
Unit Level System	100	11.0								
Force Level System	30	18.0								
Trusted System	15	45.3								
FY99			NAVAIR CAD2	N/A	C/FFP	TBD	01/99	04/99	N/A	N/A
Enterprise Server	17	152.4								
Local Server	94	46.0								
Unit Level System	789	11.2								
Force Level System	84	18.3								
Trusted System	32	46.0								

D. REMARKS

CLASSIFICATION: **UNCLASSIFIED**

P3A

INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: **Aviation Capable Ships, Air Stations, Aviation Units, Aviation Training/Support Facilities** TYPE MODIFICATION MODIFICATION TITLE: Tactical Automated Mission Planning System(TAMPS)

DESCRIPTION/JUSTIFICATION:

TAMPS provides USN and USMC planners a common automated system for rapidly processing large quantities of digitized terrain, threat and environmental data, and aircraft and weapon system parameters.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **TAMPS is post milestone III**

N/A

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E 0604231N						3.9		3.8		9.5		13.6		11.3		14.4		14.6		14.6		CONT		CONT
PROCUREMENT																								
HARDWARE																								
NEW	157	8.2	53	3.6	43	3.0	65	3.7															318	18.5
UPGRADE																								
ENTERPRISE SERVER																								
Initial Issue									15	2.3	17	2.6	19	2.9	4	0.6	13	2.1			22	3.6	90	21.6
Replacement															15	2.4	17	2.7	15	2.4		CONT	CONT	CONT
LOCAL SERVER																								
Initial Issue									131	5.9	94	4.3											290	27.2
Replacement													65	3.0	131	6.2	94	4.5	65	3.2		CONT	CONT	CONT
UNIT LEVEL SYSTEM																								
Initial Issue									100	1.1	789	8.9	900	10.3	295	3.4	316	3.7	128	1.5	225	2.7	2,753	34.6
Replacement															14	0.2	111	1.3	126	1.5		CONT	CONT	CONT
FORCE LEVEL SYSTEM																								
Initial Issue									30	0.5	84	1.5	117	2.2	51	0.6							282	7.6
Replacement																	114	1.3	117	1.4		CONT	CONT	CONT
TRUSTED SYSTEM																								
Initial Issue																								
Replacement									15	0.7	32	1.5	15	0.7	8	0.1	47	0.6	15	0.2		CONT	CONT	CONT
SOFTWARE		21.0		6.7		1.1		4.6		2.3		1.4		1.1		1.6		1.8		1.8		CONT	CONT	CONT
PRODUCTION SUPPORT		7.4		1.9		0.8		0.8		2.1		1.4		1.0		1.1		1.6		1.4		CONT	CONT	CONT
INSTALL COST		0.4		0.5		0.0		0.3		0.4		2.1		1.8		0.8		0.8		0.8		CONT	CONT	CONT
TOTAL PROCUREMENT		37.0		12.7		4.9		9.5		15.3		23.7		23.1		16.9		20.5		14.4		CONT	CONT	CONT

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

MODELS OF SYSTEMS AFFECTED: Aviation Capable Ships, Air Stations, Aviation Units, **Aviation Training/Support Facilities** MODIFICATION TITLE: Tactical Automated Mission Planning System (TAMPS)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **Field Installation Team**
ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: N/A Months
CONTRACT DATES: FY 1997: **Jan-97** FY 1998: Jan-98 FY 1999: Jan-99
DELIVERY DATE: FY 1997: **Mar-97** FY 1998: Mar-98 FY 1999: Mar-99

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS	**157**	**0.3**																					157	0.3
FY 1995 EQUIPMENT			**53**	**0.5**																			53	0.5
FY 1996 EQUIPMENT					43	0.1																	43	0.1
FY 1997 EQUIPMENT							65	0.3															65	0.3
FY 1998 EQUIPMENT									291	0.4													291	0.4
FY 1999 EQUIPMENT											1016	2.1											1016	2.1
FY 2000 EQUIPMENT													1116	1.8									1116	1.8
FY 2001 EQUIPMENT															518	0.8							518	0.8
FY 2002 EQUIPMENT																	712	0.8					712	0.8
FY 2003 EQUIPMENT																			466	0.8			466	0.8
TO COMPLETE																						CONT		CONT
																						Total	4437	

INSTALLATION SCHEDULE:

	FY 1996 & Prior	FY 1997 1	FY 1997 2	FY 1997 3	FY 1997 4	FY 1998 1	FY 1998 2	FY 1998 3	FY 1998 4	FY 1999 1	FY 1999 2	FY 1999 3	FY 1999 4	FY 2000 1	FY 2000 2	FY 2000 3	FY 2000 4	FY 2001 1	FY 2001 2	FY 2001 3	FY 2001 4	FY 2002 1	FY 2002 2	FY 2002 3	FY 2002 4	FY 2003 1	FY 2003 2	FY 2003 3	FY 2003 4	TC	TOTAL
In	253		65				291				1016				1116				518				712				466				4437
Out	253			32	33			146	145			508	508			558	558			259	259			356	356			233	233		4437

BUDGET ITEM JUSTIFICATION SHEET

DATE Feb. 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
JMCIS Ashore (LI #2804)

SUBHEAD
Subhead 52JH

	PY			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TO COMP	TOTAL
QUANTITY												
COST (in millions)					**$3.3**	**$4.5**	**7.2**	**7.2**	**7.9**	**9.2**	**CONT.**	**CONT.**

Narrative Description/Justification:
PROGRAM COVERAGE: The Joint Maritime Command Information System (JMCIS) Ashore program (formerly included in LI 2906, NCCS Ashore) provides evolutionary systems and ancillary equipment upgrades to support the CNO, Fleet Commanders in Chief, Unified Commanders, Force Anti-Submarine Warfare (ASW) Commander, and Submarine Operating Authorities worldwide. The Command and Control services provided a single Command and Control (C2) system to receive, process, display, maintain and/or assess the unit characteristics, employment scheduling, material condition, combat readiness, warfighting capabilities, positional information and disposition of own and Allied forces, and to optimize the allocation of those resources. JMCIS Ashore will provide current geolocational information on hostile land, sea and air forces integrated with environmental and other nationally derived information. JMCIS Ashore will provide the tools necessary for operational commanders to execute plans, and to transmit taski and tactical information to forces in their respective Areas of Responsibility (AORs).

JH031. JMCIS Ashore . Provides the Fleet Command Centers, Unified Command Centers, and the Navy Command Center with a common C3I capability. Incorporates the former Navy WWMCCS Software Standardization (NWSS) functionality and migrates/consolidates the functionality from component systems into a new environment using iterative hardware/software releases. JMCIS Ashore implements incremental changes in an evolutionary manner using modular segments as operational requirements dictate and as funding and technology allow. Hardware suites to support JMCIS Ashore follow a client/serv design implementing LAN and WAN architecture, serial and parallel processors, communications and database servers. JMCIS Ashore also offers distributed briefing capabilities among commands using video and large screen displays.

JH776. Installation of Equipments. Provides for installation of equipments at the shore sites listed below.

The FY 98 Budget Request Procures: 1. JMCIS Ashore Command Center Equipment; 2. Installation of Equipment.
The FY 99 Budget Request Procures: 1. JMCIS Ashore Command Center Equipment; 2. Installation of Equipment.

INSTALLATION DATA: NCCS Shore equipment installation sites include the Navy Command Center Pentagon; USCINCLANT; USCINCPAC; CINCLANTFLT; CINCPACFLT; CINCUSNAVEUR; Software Support Facility (San Diego, CA) ; 4 Submarine Operating Command Center sites at Yokosuka, Japan; Pearl Harbor, HI; Norfolk, VA and Naples, Italy; 4 Shore ASW Command Center sites at Kamiseya, Norfolk, Makalapa, and Naples; TYCOM sites at SURFPAC, AIRPAC, SUBPAC, SURFLANT, AIRLANT, SUBLANT; and FCTC, Dam Neck, VA.

COST ANALYSIS

DATE: Feb. 1998

APPROPRIATION ACTIVITY: OP,N - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE: JMCIS Ashore (LI #2804)

SUBHEAD: Subhead 52JH

COST CODE	ELEMENT OF COST	ID CODE	TOTAL COST IN THOUSANDS OF DOLLARS																
			PY		FY 1995			FY 1996			FY 1997			FY 1998			FY 1999		
			QTY	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
JH031	JMCIS Ashore	A												VAR		2,850	VAR		4,150
JH776	Non FMP Install	A												VAR		465	VAR		367
	TOTAL			**0**			**0**			**0**			**0**	**VAR**		**3,315**	**VAR**		**4,517**

Feb. 1998

MODIFICATION TITLE: JMCIS ASHORE (JH031)
MODELS OF SYSTEMS AFFECTED: N/A
DESCRIPTION/JUSTIFICATION: Provides the Fleet Command, Unified Command Centers, and the Navy Command Center with a common C3I capability. Incorporates the former Navy WWMCCS Software Standardization (NWSS) functionality and migrates/consolidates the functionality from component systems into a new environment using iterative hardware/software releases. Offers distributed briefing capabilities among commands using video and large screen displays.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment									VAR	2.8	VAR	4.1	VAR	6.4	VAR	6.5	VAR	7.2	VAR	8.4		CONT.		CONT.
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	23	0.5	23	0.4	23	0.8	23	0.7	23	0.7	23	0.7		CONT.		CONT.
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP																							0	0.0
FY 98 EQUIP									23	0.5													23	0.5
FY 99 EQUIP											23	0.4											23	0.4
FY 00 EQUIP													23	0.9									23	0.9
FY 01 EQUIP															23	0.7							23	0.7
FY 02 EQUIP																	23	0.7					23	0.7
FY 03 EQUIP																			23	0.8			23	0.8
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.5		0.4		0.8		0.7		0.7		0.7		CONT.		CONT.
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.0		3.3		4.5		7.2		7.2		7.9		9.1				0.0

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PROCUREMENT LEADTIME:

CONTRACT DATES:	FY 1996:	VAR	FY 1997:	VAR	FY 1998:	VAR	FY 1999:	VAR	FY 2000:	VAR	FY 2001:	VAR
DELIVERY DATES:	FY 1996:	VAR	FY 1997:	VAR	FY 1998:	VAR	FY 1999:	VAR	FY 2000:	VAR	FY 2001:	VAR

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT							12	11			12	11	
OUTPUT							12	11			12	11	

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT		12	11			12	11			12	11			12	11		CONT	CONT
OUTPUT		12	11			12	11			12	11			12	11		CONT	CONT

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1998

APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	JMCIS OED (LI# 2805)	52JJ

	PY			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TO COMP	TOTAL
QUANTITY												
COST (in millions)					**$0.3**	**$0.3**	**$0.5**	**$0.5**	**$0.6**	**$0.5**	**CONT**	**CONT**

PROGRAM COVERAGE: The Joint Maritime Command Information System (JMCIS) OSIS Baseline Upgrade (OBU) Evolutionary Development (OED) program (previously OSIS Baseline Upgrade (OBU) and included in LI 2906 NCCS Ashore) provides evolutionary systems and ancillary equipment upgrades to support three Joint Intelligence Centers (JIC), one JIC Detachment, one Training Center and one Software Support Activity. JMCIS OED provides for the analysis of intelligence information from multiple sources to produce a comprehensive report of foreign forces and potential hostile activity. In addition, it provides near-real-time all-source fusion, correlation and analysis tools, directly feeding automated reporting capabilities. JMCIS OED provides positional data and operational intelligence to commanders at all levels. JMCIS OED functions encompass establishing and maintaining characteristics and performance data on weapons platform systems, collecting non-organic data from ashore and afloat sensors, developing an all-source tactical picture, and analyzing intelligence information. The data derived from this process is disseminated as an Operational Intelligence (OPINTEL) product to the operating forces for tactical threat warnings, decision making support, and support of Over-the-Horizon-Targeting.

JJ011. Correlation Upgrade. Ocean Surveillance Information System (OSIS) Baseline Upgrade (OBU) provides for the analysis of intelligence information from multiple sources covering a number of different events to produce a comprehensive report of activities that assesses its significance. OBU provides positional data and operational intelligence to commanders at all levels.

JJ776. Installation of Equipments. Provides for installation of equipments at the shore sites listed below.

The FY 98 Budget Request Procures: 1. JMCIS OED upgrades; 2. Installation of Equipment.

The FY 99 Budget Request Procures: 1. JMCIS OED upgrades; 2. Installation of Equipment.

INSTALLATION DATA: JMCIS OED equipment installation sites include ONI, JICPAC, JICPAC DETACHMENT, AIC, NMITC, and JAC MOLESWORTH.

COST ANALYSIS

DATE: February 1998

APPROPRIATION ACTIVITY: OP,N - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE: JMCIS OED (LI #2805)

SUBHEAD: 52JJ

COST CODE	ELEMENT OF COST	ID CODE	TOTAL COST IN THOUSANDS OF DOLLARS																
			PY		FY 1995			FY 1996			FY 1997			FY 1998			FY 1999		
			QTY	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
JJ011	JMCIS OED	A												6		305	2		307
JJ776	Non FMP Install	A												VAR		30	VAR		36
	TOTAL			0			0			0			0			335			343

Feb-98

MODIFICATION TITLE: JMCIS OED (JJ011)
MODELS OF SYSTEMS AFFECTED: N/A
DESCRIPTION/JUSTIFICATION: JMCIS OED provides for the analysis of intelligence information from multiple sources to produce a comprehensive report of foreign forces and potential hostile activity. In addition, it provides near-real-tim all-source fusion, correlation and analysis tools, directly feeding automated reporting capabilities. JMCIS OED provides positional data and operational intelligence to commanders at all levels.
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Development and Operational testing for major system upgrades is scheduled for FY 97 and will be conducted every other year. Each major upgrade/enhancement will undergo formal testing by Operational Test and Evaluation Force (OPTEVFOR).

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment									Var	0.3	Var	0.3	Var	0.4	Var	0.5	Var	0.5	Var	0.5		CONT		CONT
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	0	0.00	0	0.00	0	0.00	0	0.00	6	0.03	2	0.04	3	0.03	3	0.03	3	0.03	2	0.03		CONT.		CONT.
PRIOR YR EQUIP																							0.0	0.0
FY 95 EQUIP																							0.0	0.0
FY 96 EQUIP																							0.0	0.0
FY 97 EQUIP																							0.0	0.0
FY 98 EQUIP									6	0.03													6.0	0.0
FY 99 EQUIP											2	0.04											2.0	0.0
FY 00 EQUIP													3	0.03									3.0	0.0
FY 01 EQUIP															3	0.03							3.0	0.0
FY 02 EQUIP																	3	0.03					3.0	0.0
FY 03 EQUIP																			2	0.03			2.0	0.0
FY TC EQUIP																							0.0	0.0
TOTAL INSTALLATION COST		0.00		0.00		0.00		0.00		0.03		0.04		0.03		0.03		0.03		0.03		CONT.		CONT.
TOTAL PROCUREMENT COST		0.00		0.00		0.00		0.00	VAR	0.33	VAR	0.34	VAR	0.43	VAR	0.53	VAR	0.53	VAR	0.53	VAR	CONT.		CONT.

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PROCUREMENT LEADTIME:

CONTRACT DATES: FY 1996: FY 1997: FY 1998: FY 1999: FY 2000: FY 2001:

DELIVERY DATES: FY 1996: FY 1997: FY 1998: FY 1999: FY 2000: FY 2001:

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT							4	2				1	1
OUTPUT							4	2				1	1

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT	1	1	1				3			1	2				2		CONT.	CONT.
OUTPUT	1	1	1				3			1	2				2		CONT.	CONT.

BUDGET ITEM JUSTIFICATION SHEET											DATE February 1998	
APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT						P-1 ITEM NOMENCLATURE TADIXS B 290000					SUBHEAD 52DH	
	PY			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TO COMP	TOTAL
QUANTITY												
COST (in millions)	$41.5			$14.3	$5.1	$12.4	$21.2	$7.3	$10.5	$2.1	$9.2	$120.1

Narrative Description/Justification: Commander's Tactical Terminals/Joint Tactical Terminals (CTTs/JTTs) provide designated platforms with the critical capability to receive near-real-time (NRT) contact data reports via a UHF communications links called Tactical Data Information Exchange Subsystem (TADIXS) B and Tactical Related Applications (TRAP) Data Dissemination System (TDDS) and to receive and transmit tactical intelligence dissemination networks, such as Tactical Information Broadcast Service (TIBS) and Tactical Reconnaissance Intelligence Exchange System (TRIXS). This data provides over-the-horizon targeting (OTH-T) for the targeting and retargetting of missiles, global detection and cueing information from multiple sources to tactical users worldwide, theater information with tracking accuracy of fast moving targets to joint operational users, and direct dedicated links for critical time sensitive surveillance information to battlefield commanders. The CTT, one of the two migration systems identified in the DOD approved Integrated Broadcast Service (IBS) Plan presented to the House Permanent Select Committee on Intelligence (HPSCI), is undergoing in-depth testing by all services, including OPTEVFOR. The JTT, a required by the IBS Plan, will evolve from the CTT and OPTEVFOR will conduct Follow-on Operational Test and Evaluation (FOT&E), if required, on any functional differences between the CTT and JTT. Common IBS modules (CIBS-M) will be procured to allow the CTTs to be upgraded to JTT functional level. CIBS-M also provides expanded capability for JTT to meet outyear and emergent requirements and allows JTT functionality to be incorporated into other open architecture systems.

JUSTIFICATION OF BUDGET YEAR REQUIREMENTS: FY97, FY98 and FY99 funds will procure CTTs and JTTs, ancillary hardware and appropriate production support. PR-99 funding was reduced by $3.6M to adjust for late contract award in FY97 and FY98 deliveries.

INSTALLATION AGENT: Naval Command, Control and Ocean Surveillance Center In-Service Engineering , East Coast Division (NISEEAST) and Naval Command, Control and Ocean Surveillance Center Research and Development (NRAD) will install systems on Navy surface ships, submarines and Navy Shore stations. Shipboard installations will be accomplished by Alteration Installation Teams (AITs)
Note: Budget reflects transfer of design services into the appropriate equipment P-1 line item beginning FY 1998.

Equipment (Procurement plus Installation) (Does not include Production Support)	FY97	FY98	FY99	FY00	FY01	FY02	FY03
CTT/JTT	$13.0	$4.0	$11.2	$21.9	$8.6	$9.8	$1.4

COST ANALYSIS

DATE
February 1998

APPROPRIATION ACTIVITY
OP,N - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
TADIXS B 290000

SUBHEAD
52DH

COST CODE	ELEMENT OF COST	ID CODE	TOTAL COST IN THOUSANDS OF DOLLARS																
			PY		FY 1995			FY 1996			FY 1997			FY 1998			FY 1999		
			QTY	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
DH400	Production Support	A											1,315			1,032			1,179
DH520	CTT Systems	A									6	369	2,216						
DH520	JTT Systems	A									30	360	10,803	11	301	3,307	35	294	10,298
DH776	Non FMP Installation	A																	
DH777	FMP Installation	A												6	1/	514	5	100	500
	DSA	A														213			400
	TOTAL CONTROLS												**14,334**			**5,066**			**12,377**

1/ Installation of two different types of equipment with different installation costs.

WEAPON SYSTEM PROCUREMENT HISTORY AND PLANNING

A. DATE February 1998

B. APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

C. P-1 ITEM NOMENCLATURE TADIXS B 290000

SUBHEAD 52DH

COST CODE	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
DH520	CTT System	FY97	E-Systems; St Petersburg, FL	FFP	Army; JSTAR		May-97	May-98	6	369.3	Yes	
DH520	JTT System	FY97	TBD	FFP	Army; JSTAR		Sep-97	Oct-99	30	360.1	Yes	
DH520	JTT System	FY98	TBD	FFP	Army; JSTAR		Mar-98	Feb-00	11	300.6	Yes	
DH520	JTT System	FY99	TBD	FFP	Army; JSTAR		Nov-98	Jun-00	35	294.2	Yes	

D. REMARKS

Note: Unit price includes funds for ancillary hardware and miscellaneous interface equipment.

Feb-98

MODIFICATION TITLE: TADIXS B 290000
MODELS OF SYSTEMS AFFECTED: 52DH Commander''s Tactical Terminal (CTT)
DESCRIPTION/JUSTIFICATION: Army is the lead service for JTT procurement per OSD direction in PBD7720 Dtd 22 Jan 1996.
This display includes installation of both shipboard (FMP) and Shore (Non-FMP) equipment.
Note: The CTT untis bought in FY97 and prior will migrate to JTT configuration using CIBS-M to meet the total requirement of 183.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment			5	3.5		0.0	6	2.2															11	5.7
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	6	0.7	5	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	11	1.2
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP									5	0.5													5	0.5
FY 96 EQUIP																							0	0.0
FY 97 EQUIP									1	0.2	5	0.5											6	0.7
FY 98 EQUIP																							0	0.0
FY 99 EQUIP																							0	0.0
FY 00 EQUIP																							0	0.0
FY 01 EQUIP																							0	0.0
FY 02 EQUIP																							0	0.0
FY 03 EQUIP																							0	0.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.7		0.5		0.0		0.0		0.0		0.0		0.0	11	1.2
TOTAL PROCUREMENT COST		0.0		3.5		0.0		2.2		0.7		0.5		0.0		0.0		0.0		0.0		0.0	22.0	6.9

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 2/8 Mo. PROCUREMENT LEADTIME: 12 Mo.

CONTRACT DATES: FY 1996: FY 1997: May-97 FY 1998: FY 1999: FY 2000: FY 2001:

DELIVERY DATES: FY 1996: FY 1997: May-98 FY 1998: FY 1999: FY 2000: FY 2001:

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT						1	2	2	1	2	3		
OUTPUT						1	2	2	1	2	3		

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT																		11
OUTPUT																		11

Feb-98

MODIFICATION TITLE: TADIXS B 290000
MODELS OF SYSTEMS AFFECTED: 52DH Joint Tactical Terminals (JTT)
DESCRIPTION/JUSTIFICATION: Army is the lead service for JTT procurement per OSD direction in PBD7720 Dtd 22 Jan 1996.
This display includes installation of both shipboard (FMP) and Shore (Non-FMP) equipment.
Note: The CTT untis bought in FY97 and prior will migrate to JTT configuration using CIBS-M to meet the total requirement of 183
Ancillary equipment being procured in same year as installation.
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment							30	10.8	11	3.3	35	10.3	55	14.5	3	0.9	16	5.0	3	0.9	19	5.9	172	52
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*													45	4.5	50	5.0	47	4.7	4	0.4	26	2.6	172	17
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP													30	3.0									30	3.0
FY 98 EQUIP													11	1.1									11	1.1
FY 99 EQUIP													4	0.4	31	3.1							35	3.5
FY 00 EQUIP															19	1.9	36	3.6					55	5.5
FY 01 EQUIP																	3	0.3					3	0.3
FY 02 EQUIP																	8	0.8	4	0.4	4	0.4	16	1.6
FY 03 EQUIP																					3	0.3	3	0.3
FY TC EQUIP																					19	1.9	19	1.9
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.0		0.0		4.5		5.0		4.7		0.4		2.6	172.0	17.2
TOTAL PROCUREMENT COST		0.0		0.0		0.0		10.8		3.3		10.3		19.0		5.9		9.7		1.3		8.5	344.0	68.8

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 2 Mo. PROCUREMENT LEADTIME: 19 Mo.

CONTRACT DATES: FY 1996: FY 1997: Sep-97 FY 1998: Mar-98 FY 1999: Nov-98 FY 2000: Mar-00 FY 2001: Mar-01

DELIVERY DATES: FY 1996: FY 1997: Oct-99 FY 1998: Feb-00 FY 1999: Jun-00 FY 2000: Jun-02 FY 2001: Jun-03

INSTALLATION SCHEDULE:	PY	FY 97				FY 98				FY 99			
		1	2	3	4	1	2	3	4	1	2	3	4
INPUT													
OUTPUT													

INSTALLATION SCHEDULE:	FY 00				FY 01				FY 02				FY 03				TC	TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
INPUT	12	12	13	13	12	12	8	13	11	12	12	12	4				26	172
OUTPUT		12	12	13	13	12	12	8	13	11	12	12	10	6			26	172

UNCLASSIFIED
CLASSIFICATION

PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE
February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
TADIXS B

SUBHEAD NO.
52DH

COST CODE	ITEM/MANUFACTURER	FY	SERV	PROC QTY	ACCEP PRIOR TO 1-Oct	BAL DUE AS OF 1-Oct	FISCAL YEAR 96												FISCAL YEAR 97												FISCAL YEAR 98											
							PY			CALENDAR YEAR 96									CALENDAR YEAR 97												CALENDAR YEAR 98											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DH520	CTT System	FY97		6		6																				A												1	1	1	1	1
DH520	JTT System	FY97		30		30																								A												
DH520	JTT System	FY98		11		11																														A						
DH520	JTT System	FY99		35		35																																				

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST
ITEM NO. 91
PAGE NO. 6

UNCLASSIFIED
CLASSIFICATION

UNCLASSIFIED
CLASSIFICATION

PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE
February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
TADIXS B

SUBHEAD NO.
52DH

COST CODE	ITEM/MANUFACTURER/ PROCUREMENTY YEAR	FISCAL YEAR	CARRY OVER	FISCAL YEAR 99												FISCAL YEAR 00												FISCAL YEAR 01												LATER
				CY98			CALENDAR YEAR 99												CALENDAR YEAR 00												CALENDAR YEAR 01								
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
DH520	CTT System	FY97	1	1																																				
DH520	JTT System	FY97	30													7	8	8	7																					
DH520	JTT System	FY98	11																	6	5																			
DH520	JTT System	FY99	35		A																			4	4	4	4	4	4	4	4	3								
																																								0
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST
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UNCLASSIFIED
CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET

DATE Feb. 98

APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	JMCIS Tactical Mobile (#2906)	52T4

	PY			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TO COMP	TOTAL
QUANTITY												
COST (in millions)	**$20.2**			**$51.1**	**$37.0**	**$4.0**	**$4.7**	**$5.2**	**$7.1**	**$7.6**	**CONT**	**TBD**

Narrative Description/Justification: Through FY97, the Navy Command and Control System (NCCS) Ashore program provides evolutionary systems and ancillary equipment upgrades to support the CNO, Fleet Commanders in Chief, Unified Commanders, and Fleet Ocean Surveillance Information Centers and Facilities, Force Anti-Submarine Warfare (ASW) Commander, Sector Surveillance Commanders and Submarine Operating Authorities worldwide. The Command and Control services provided include analysis and correlation of diverse sensor information; data management support, command decision aids; access to rapid data communication, mission planning and evaluation; dissemination of sanitized ocean surveillance positional data and threat alerts to operational users ashore and afloat. Beginning in FY 98, this LI becomes solely the Joint Maritime Command Information System (JMCIS) Tactical/Mobile (JTM) program. The JMCIS Tactical/Mobile (JTM) Systems include both fixed sites (Tactical Support Centers (TSCs)) and mobile components (Mobile Operations Control Centers (MOCCs), Mobile Ashore Support Terminals (MASTs) and Mobile Integrated Command Facilities (MICFACs)). These centers provide the Navy Component Commander, the Maritime Sector Commander (Ashore), the Theater Commander (Ashore) or the Naval Liaison Element Commander (Ashore) with the capability to plan, direct and control the tactical operations of Joint and Naval Expeditionary Forces and other assigned units within his respective area of responsibility. These operations include littoral and open ocean surveillance, anti-surface warfare, over-the-horizon targeting, counter-drug operations, power projection, antisubmarine warfare, mining, search and rescue, and special operations. TSCs consist of C4I systems (based on the Joint Maritime Command Information System (JMCIS) common architecture) which will evolve to the JMCIS architecture based upon NT personal computers, and in compliance with the implementation of the Defense Information Infrastructure (DII) Common Operating Environment (COE); air-ground, satellite and point-to-point communications systems; sensor analysis capabilities; avionics and weapons system interfaces and facilities equipment. MOCC is a rapidly-deployable, self-contained, take-what-you-need C4I system which can be transported in two fleet-configured P-3 aircraft for contingency operations. For example, a MOCC has been deployed to Bosnia for support of P-3 operations and to provide an on-site C4I capability. MAST and MICFAC are miniaturized mobile facilities designed to support a theater commander or naval liaison element ashore. MAST provides a deployable (in a C-130 aircraft) basic C4I capability for rapid deployment to remote locations. Support of the Liberian contingency operations is an example. The MICFAC is a robust C4I system deployable (in a C-5 / C-17 class aircraft) that can support a numbered fleet commander's staff ashore. MICFAC Bahrain has acted as the C4I command center when the hard site was undergoing upgrades. This program assures that existing TSC's, MOCC's, MAST's and MICFAC's remain interoperable with other JMCIS '98 platforms, Joint, NATO and allied forces. JTM systems leverage other JMCIS '98 systems while following the Copernicus Forward Architecture. TSC/MOCC's will continue to support P-3C/S-3B updates to sensors and weapons systems, such as the Anti-Surface Warfare Improvement Program (AIP). This budget also includes funds for the MIUW Van Upgrades.

T4011. Correlation Upgrade. Ocean Surveillance Information System (OSIS) Baseline Upgrade (OBU) provides for the analysis of intelligence information from multiple sources covering a number of different events to produce a comprehensive report of activities that assesses its significance. OBU provides positional data and operational intelligence to commanders at all levels. Beginning in FY 98, this program transfers to LI #2805, JMCIS OSIS Evolutionary Development (OED) program.

T4031. Operations Support System (OSS). OSS provides the Fleet Command Centers, Unified Command Centers, and the Navy Command Center with a common C3I capability. OSS incorporates the former Navy WWMCCS Software Standardization (NWSS) functionality and migrates/consolidates the functionality from component systems into a new environment using iterative hardware/software releases. OSS implements incremental changes such as Fleet Planning Center improvements in an evolutionary manner using modular segments as operational requirements dictate and as funding and technology allow. Hardware suites to support OSS follow a client/server design implementing LAN and WAN architecture, serial and parallel processors, communications and database servers. OSS also offers distributed briefing capabilities among commands using video and large screen displays. Beginning in FY 98, this program transfers to LI #2804, JMCIS Ashore.

BUDGET ITEM JUSTIFICATION SHEET

DATE	Feb. 98

APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	JMCIS Tactical Mobile (#2906)	52T4

Narrative Description/Justification: (continued) T4350. TSC Communications (TCOMM) Replacement. Equipment is site dependent and quantities vary based on equipment condition and configuration. Funds procure replacement point-to-point and tactical Command, Control, Communication, Computers and Intelligence (C4I) Equipment for TSCs and MOCCs when they have reached the end of service life. This line has been combined with T4371 starting in FY-99 because procuring COTS hardware and the rapid advancement in technology and the need to keep abreast of advancements have overtaken the need to have a replacement cost code for this program.

T4371. Upgrade Equipment. This line procures various types of TSC C4I Equipment in order to provide a new or an increased capability over the present system and replace the equipment systems when they have reached the end of service life, and assure the existing system remains interoperable with updated aircraft, sensors, and weapons systems.

T4500. Mobile Ashore Support Terminal/Mobile Integrated Command Facility (MAST/MICFAC). These miniaturized mobile facilities provide a deployable basic C3 capability (MAST) or deployable complete JMCIS C4I capability (less special compartmented information elements (MAST/MICFAC) to a theater commander or naval liaison element ashore. These facilities were established and will be upgraded using the evolutionary acquisition approach.

T4600. MIUW Van Upgrades. This budget includes funding for the MIUW Van Upgrades. This effort improves a rapidly deployable force capable of conducting surface and subsurface surveillance in militarily significant inshore areas, general command, control and communications and control of ship movement within harbors and anchorages, and crisis response to special operations, counter-drug, maritime prepositioning, mine countermeasures and law enforcement forces.

T4666. Initial Training. Initial training of instructors for equipments procured above.

T4776. Installation of Equipments. Provides for installation of equipments at the shore sites listed below.

The FY 97 Budget Request Procures: 1. Correlation Upgrades; 2. OSS Command Center Equipment; 3. additional TSC Communication Replacement Equipment; 4. TSC Upgrade Equipment; 5. MAST/MICFAC Equipment; 6. Initial training for these systems; and 7. Installation of Equipment.
The FY98 Budget Request Procures: 1. TSC Communication Replacement equipment; 2. TSC Upgrade Equipment; 3. MAST/MICFAC Equipment; and 4. Installation of Equipment.
The FY99 Budget Request Procures: 1. TSC Upgrade Equipment; 2. MAST/MICFAC Equipment; and 3. Installation of Equipment.

INSTALLATION DATA: NCCS Shore equipment installation sites include the Navy Command Center Pentagon; USCINCLANT; USCINCPAC; CINCLANTFLT; CINCPACFLT; COMUSNAVCENT; CINCUSNAVEUR; TYCOMMs at SURFPAC, AIRPAC, SUBPAC, SURFLANT, AIRLANT and SUBLANT; Software Support Facility (San Diego, CA) and subordinate commands at Rota, Spain; Kamiseya, Japan; Naples, Italy; COMTHIRDFLT; 16 TSC systems (15 in FY 99) at 14 operational sites (13 in FY99) (located at Keflavik, Iceland; Brunswick, ME; Jacksonville, FL; Sigonella, Italy; Rota, Spain; Barbers Point/Kaneohe, HI; Whidbey Island, WA; Kadena, Japan; Misawa, Japan; Cecil Field, FL (consolidates with Jacksonville in FY 99); North Island, CA; Diego Garcia, Indian Ocean; Roosevelt Roads, Puerto Rico, and Masirah, Oman); 1 training site at Fleet Combat Training Center (FCTC) Dam Neck, Va and 1 ISEA site at SSC CHARLESTON; 8 MOCCs (Homeported at Brunswick, ME; Jacksonville, FL; Sigonella, Italy; Barbers Point/Kaneohe, HI; Misawa, Japan; Whidbey Island, WA; Willow Grove, PA; and Moffett Field, CA.; 4 Submarine Operating Authorities at Yokosuka, Japan; Pearl Harbor, HI; Norfolk, VA and Naples, Italy; FCTC, Dam Neck, VA and the C2 Engineering Development, Software Support Facility (SSC CHARLESTON DET ST. INIGOES, MD).

COST ANALYSIS

DATE Feb. 98

APPROPRIATION ACTIVITY OP,N - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE JMCIS Tactical Mobile (#2906)

SUBHEAD 52T4

COST CODE	ELEMENT OF COST	ID CODE	TOTAL COST IN THOUSANDS OF DOLLARS																
			PY		FY 1995			FY 1996			FY 1997			FY 1998			FY 1999		
			QTY	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
T4011	Correlation Upgrade OBU	A											144						
T4031	OSS	A											3,726						
T4350	TCOMM Replacements TSC	A											702			1,436			
T4371	Upgrade Equipment TSC	A											476			327			1,159
T4500	MAST/MICFAC	A											691			268			1,473
T4600	MIUW Van Upgrades	A											44,100			34,184			
T4666	Initial Training	A											284						
T4776	Non FMP Install	A											1,012			793			1,350
	TOTAL												**51,135**			**37,008**			**3,982**

Feb. 98

MODIFICATION TITLE: Correlation Upgrade SUBHEAD/COST CODE: 52T4/T4011
MODELS OF SYSTEMS AFFECTED: N/A
DESCRIPTION/JUSTIFICATION: OSIS Baseline Upgrade (OBU) provides for the analysis of intelligence information from multiple sources to produce a comprehensive report of foreign forces and potential hostile activity. OSIS provides positional data and operational intelligence to commanders at all levels. It consists of two Joint Intelligence Centers (JIC), one JIC Detachment, one Fleet Ocean Surveillance Facility (FOSIF), a software support activity, and a training site. OBU functions encompass establishing and maintaining characteristics and performance data on weapons platform systems, collecting non-organic data from ashore and afloat sensors, developing an all-source tactical picture, and analyzing intelligence information. The data derived from this process is disseminated as an Operational Intelligence (OPINTEL) product to the operating forces for tactical threat warnings, decision making support, and support of Over-the-Horizon-Targeting.
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Development and Operational testing for major system upgrades began in FY 94 and will be conducted every other year.
Each major upgrade/enhancement will undergo formal testing by Operational Test and Evaluation Force (OPTEVFOR).
FINANCIAL PLAN: ($ in millions)

		PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
		Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																										
PROCUREMENT:																										
Kit Quantity																										
Installation Kits																										
Installation Kits Nonrecurring																										
Equipment	2/			VAR	2.1	VAR	0.4	VAR	0.2															VAR	2.7	1/
Equipment Nonrecurring																										
Engineering Change Orders																										
Data																										
Training Equipment																										
Support Equipment																										
Other																										
Interm Contractor Support																										
Installation of Hardware*		0	0.0	5	0.3	7	0.2	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	13	0.7	
PRIOR YR EQUIP																								0	0.0	
FY 95 EQUIP				5	0.3																			5	0.3	
FY 96 EQUIP						7	0.2																	7	0.2	
FY 97 EQUIP								1	0.2															1	0.2	
FY 98 EQUIP																								0	0.0	
FY 99 EQUIP																								0	0.0	
FY 00 EQUIP																								0	0.0	
FY 01 EQUIP																								0	0.0	
FY 02 EQUIP																								0	0.0	
FY 03 EQUIP																								0	0.0	
FY TC EQUIP																								0	0.0	
TOTAL INSTALLATION COST			0.0		0.3		0.2		0.2		0.0		0.0		0.0		0.0		0.0		0.0		0.0	13	0.7	
TOTAL PROCUREMENT COST			0.0		2.4		0.6		0.4		0.0		0.0		0.0		0.0		0.0		0.0		0.0	13	3.4	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: VAR PROCUREMENT LEADTIME: VAR

CONTRACT DATES: FY 1996: VAR FY 1997: VAR FY 1998: FY 1999:

DELIVERY DATES: FY 1996: VAR FY 1997: VAR FY 1998: FY 1999:

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	12			1									
OUTPUT	12			1									

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT																		13
OUTPUT																		13

Note: 1/ *Equipment total reflects inventory objectives through FY97. Subsequent inventory objectives displayed in Cost Code **011, Line Item No. 2805.
2/ Equipment cost includes initial training.

Feb. 98

MODIFICATION TITLE: Operations Support System SUBHEAD/COST CODE: 52T4/T4031
MODELS OF SYSTEMS AFFECTED: N/A
DESCRIPTION/JUSTIFICATION: OSS provides a single C3I capability to receive, process, display, maintain and/or assess the unit characteristics, employment scheduling, material condition, combat readiness, warfighting capabilities, positional information and disposition of own and allied forces. OSS provides information to help optimize the allocatio of Naval resources.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment	2/		VAR	6.8	VAR	3.9	VAR	3.8															VAR	14.5	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*	0	0.0	18	1.0	18	0.6	23	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	59	2.0	
PRIOR YR EQUIP																							0	0.0	
FY 95 EQUIP			18	1.0																			18	1.0	
FY 96 EQUIP					18	0.6																	18	0.6	
FY 97 EQUIP							23	0.4															23	0.4	
FY 98 EQUIP																							0	0.0	
FY 99 EQUIP																							0	0.0	
FY 00 EQUIP																							0	0.0	
FY 01 EQUIP																							0	0.0	
FY 02 EQUIP																							0	0.0	
FY 03 EQUIP																							0	0.0	
FY TC EQUIP																							0	0.0	
TOTAL INSTALLATION COST		0.0		1.0		0.6		0.4		0.0		0.0		0.0		0.0		0.0		0.0		0.0	59	2.0	
TOTAL PROCUREMENT COST		0.0		7.8		4.5		4.2		0.0		0.0		0.0		0.0		0.0		0.0		0.0	59	16.5	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: VAR PROCUREMENT LEADTIME: VAR

CONTRACT DATES: FY 1996: VAR FY 1997: VAR FY 1998: FY 1999:

DELIVERY DATES: FY 1996: VAR FY 1997: VAR FY 1998: FY 1999:

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	36		12	11									
OUTPUT	36		12	11									

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT																		59
OUTPUT																		59

Note: 1/ Equipment total reflects inventory objectives through FY97. Subsequent inventory objectives displayed in Cost Code **031, Line Item No. 2804.
2/ Equipment cost includes initial training

Feb. 98

MODIFICATION TITLE: JMCIS Tactical/Mobile (JTM) Communications Replacement SUBHEAD/COST CODE: 52T4/T4350

MODELS OF SYSTEMS AFFECTED: N/A

DESCRIPTION/JUSTIFICATION: Tactical Support Centers are nodes of the NCCS Ashore, with fixed sites and mobile components (MOCCs) that provide the Maritime Sector Commander with the capability to plan, direct and control the tactical operations of joint and Naval Expeditionary Forces and other assigned units within his respective area of responsibility. These operations include littoral and open ocean surveillance, anti-surface warfare, over-the-horizon targeting, counter-drug operations, power projection, antisubmarine warfare, mining, search and rescue and special operations. This subhead contains TSC C4I systems (based on the Joint Maritime Command Information System-JMCIS common architecture) and air-ground, satellite and point-to-point communications systems. The MOCCs are rapidly-deployable, self-contained, take-what-you-need C4I systems which can be transported in two fleet-configured P-3 aircraft for contingency operations.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Anticipate OT every 18-24 months.

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment**	Can not define		VAR	1.1	VAR	1.1	VAR	0.7	VAR	1.5													VAR	4.4
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	0	0.0	13	0.4	5	0.3	2	0.1	26.0	1.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	46	2.0
PRIOR YR EQUIP			13	0.4																			18	0.7
FY 95 EQUIP					5	0.3																	0	0.0
FY 96 EQUIP							2	0.1															2	0.1
FY 97 EQUIP									8	0.3													8	0.3
FY 98 EQUIP									18	0.9													18	0.9
FY 99 EQUIP																							0	0.0
FY 00 EQUIP																							0	0.0
FY 01 EQUIP																							0	0.0
FY 02 EQUIP																							0	0.0
FY 03 EQUIP																							0	0.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		0.4		0.3		0.1		1.2		0.0		0.0		0.0		0.0		0.0		0.0	46	2.0
TOTAL PROCUREMENT COST		0.0		1.5		1.4		0.8		2.7		0.0		0.0		0.0		0.0		0.0		0.0	46	6.4

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: VAR PROCUREMENT LEADTIME: VAR

CONTRACT DATES: FY 1996: VAR FY 1997: VAR FY 1998: VAR FY 1999: VAR

DELIVERY DATES: FY 1996: VAR FY 1997: VAR FY 1998: VAR FY 1999: VAR

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	18		2				8	9	9				
OUTPUT	18			2				8	9	9			

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT																		46
OUTPUT																		46

* P-5 contains VAR quantities of equipment procured; P-3A contains "Shore Sites Installed" as measures of quantity.

** Equipment cost includes initial training.

Feb. 98

MODIFICATION TITLE: JMICS Tactical /Mobile (JTM) Upgrade Equipment SUBHEAD/COST CODE: 52T4/T4371
MODELS OF SYSTEMS AFFECTED: N/A
DESCRIPTION/JUSTIFICATION: Tactical Support Centers are nodes of the NCCS Ashore, with fixed sites and mobile components (MOCCs) that provide the Maritime Sector Commander with the capability to plan, direct and control the tactical operations of joint and Naval Expeditionary Forces and other assigned units within his respective area of responsibility. These operations include littoral and open ocean surveillance, anti-surface warfare, over-the-horizon targeting, counter-drug operations, power projection, antisubmarine warfare, mining, search and rescue and special operations. This subhead contains TSC C4I systems (based on the Joint Maritime Command Information System-JMCIS common architecture) and air-ground, satellite and point-to-point communications systems. The MOCCs are rapidly-deployable, self-contained, take-what-you-need C4I systems which can be transported in two fleet-configured P-3 aircraft for contingency operations.
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Anticipate OT every 18-24 months.
FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment**	Can not define			0.0		0.0	VAR	0.5	VAR	0.3	VAR	1.1	VAR	1.9	VAR	2.0	VAR	2.7	VAR	3.0	Cont	Cont		11.5	***
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*	0	0.0	3	0.1	4	0.2	16	0.4	3	0.4	5	0.3	6	0.8	23	0.8	15	1.0	24	1.0	Cont	Cont	99.0	5.0	
PRIOR YR EQUIP			3	0.1	4	0.2	16	0.4															23.0	0.7	
FY 95 EQUIP																							0.0	0.0	
FY 96 EQUIP																							0.0	0.0	
FY 97 EQUIP									3	0.4													3.0	0.4	
FY 98 EQUIP																							0.0	0.0	
FY 99 EQUIP											5	0.3	3	0.7									8.0	1.0	
FY 00 EQUIP													3	0.1	19	0.7							22.0	0.8	
FY 01 EQUIP															4	0.1	12	0.9					16.0	1.0	
FY 02 EQUIP																	3	0.1	12	0.7			15.0	0.8	
FY 03 EQUIP																			12	0.3			12.0	0.3	
FY TC EQUIP																									
TOTAL INSTALLATION COST		0.0		0.1		0.2		0.4		0.4		0.3		0.8		0.8		1.0		1.0	CONT	CONT		5.0	
TOTAL PROCUREMENT COST		0.0		0.1		0.2		0.9		0.7		1.4		2.7		2.8		3.7		4.0	CONT	CONT		16.5	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: VAR PROCUREMENT LEADTIME: VAR

CONTRACT DATES: FY 1996: VAR FY 1997: VAR FY 1998: VAR FY 1999: VAR

DELIVERY DATES: FY 1996: VAR FY 1997: VAR FY 1998: VAR FY 1999: VAR

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	7		6	10			3				5		
OUTPUT	7		3	5	8			3				5	

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT		3	3			13	10			7	8			12	12		TBD	99
OUTPUT			3	3		3	13	7			7	8			12	12	TBD	99

* P-5 contains VAR quantities of equipment procured; P-3A contains "Shore Sites Installed" as measures of quantity.
** Equipment cost includes initial training.
*** This is a Evolutionary Acquisition program. Therefore, no definite inventory objective is established.

Feb. 98

MODIFICATION TITLE: Mobile Ashore Support Terminal/Mobile Integrated Command Facility (MAST/MICFAC) SUBHEAD/COST CODE: 52T4/T4500
MODELS OF SYSTEMS AFFECTED: N/A
DESCRIPTION/JUSTIFICATION: Provide a deployable basic C3 capability (MAST) or deployable complete JMCIS C4I capability (MICFAC) to a theater commander or naval liaison element ashore.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Anticipate OT every 18-24 months.
FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment					VAR	1.6	VAR	0.7	VAR	0.2	VAR	1.5	VAR	1.3	VAR	2.1	VAR	2.6	VAR	2.7	CONT	CONT	0	12.7	***
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	5	0.1	6	0.2	14	0.7	8	0.3	16	0.8	2	0.9	CONT	CONT	51	3	
PRIOR YR EQUIP																							0	0	
FY 95 EQUIP																							0	0	
FY 96 EQUIP																							0	0	
FY 97 EQUIP																							0	0	
FY 98 EQUIP									5	0.1													5	0.1	
FY 99 EQUIP											6	0.2	8	0.5									14	0.7	
FY 00 EQUIP													6	0.2	8	0.3							14	0.5	
FY 01 EQUIP																	8	0.7					8	0.7	
FY 02 EQUIP																	8	0.1	2	0.9			10	1	
FY 03 EQUIP																									
FY TC EQUIP																									
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.1		0.2		0.7		0.3		0.8		0.9	CONT	CONT		3.0	
TOTAL PROCUREMENT COST		0.0		0.0		1.6		0.7		0.3		1.7		2.0		2.4		3.4		3.6	CONT	CONT		15.7	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: VAR PROCUREMENT LEADTIME: VAR

CONTRACT DATES: FY 1996: VAR FY 1997: VAR FY 1998: VAR FY 1999: VAR

DELIVERY DATES: FY 1996: VAR FY 1997: VAR FY 1998: VAR FY 1999: VAR

INSTALLATION SCHEDULE:	PY	FY 97 1	2	3	4	FY 98 1	2	3	4	FY 99 1	2	3	4
INPUT							5				6		
OUTPUT								5				6	

INSTALLATION SCHEDULE:	FY 00 1	2	3	4	FY 01 1	2	3	4	FY 02 1	2	3	4	FY 03 1	2	3	4	TC	TOTAL
INPUT		4	4	6		5	3			8	8			2			TBD	51
OUTPUT			3	5	6	2	4	2		5	5	6			2		TBD	51

* P-5 contains VAR quantities of equipment procured; P-3A contains "Shore Sites Installed" as measures of quantity.
** Equipment cost includes initial training.
*** This is a Evolutionary Acquisition program. Therefore, no definite inventory objective is established.

Jun-97

MODIFICATION TITLE: Mobile Inshore Undersea Walfare (MIUW-SU) SUBHEAD/COST CODE: 52T4/T4600
MODELS OF SYSTEMS AFFECTED: N/A
DESCRIPTION/JUSTIFICATION: The MIUW-SU provides depolyable elements to conduct surface and subsurface surveillance of inshre areas, provide C4I support to deployed operational commanders within inshore areas, and to provide crisis response support to special operations, counter-drug, maritime prepositioning, mine countrermeasures and law emfprce,emt forces.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment							10	44.1	5	34.2													15	78.3
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0	7	0.0	5	0.0	0	0.0	0	0.0	0	0.0	0	0.0	15	0.0
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP									3		7												10	0.0
FY 98 EQUIP													5										5	0.0
FY 99 EQUIP																							0	0.0
FY 00 EQUIP																							0	0.0
FY 01 EQUIP																							0	0.0
FY 02 EQUIP																							0	0.0
FY 03 EQUIP																							0	0.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	15	0.0
TOTAL PROCUREMENT COST		0.0		0.0		0.0		44.1		34.2		0.0		0.0		0.0		0.0		0.0		0.0	15	78.3

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 10 mos. PROCUREMENT LEADTIME: 10 mos.

CONTRACT DATES: FY 1996: FY 1997: Jul-97 FY 1998: Jul-98 FY 1999: VAR

DELIVERY DATES: FY 1996: FY 1997: May-98 FY 1998: Oct-99 FY 1999: VAR

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT								2	1		1	2	4
OUTPUT								2	1		1	2	4

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT	1	1	1	2														15
OUTPUT	1	1	1	2														15

*Cost of install included in procurement.

CLASSIFICATION:

BUDGET ITEM JUSTIFICATION SHEET P-40	DATE: February 1998
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY**	**P-1 ITEM NOMENCLATURE/LINE ITEM #** Nuclear Radiation Safety Monitoring Equipment (RADIAC) 292000
Program Element for Code B Items: **0603542N**	**OTHER RELATED PROGRM ELEMENTS**

	Prior Years	ID Code	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY											**0**
EQUIPMENT COST (In Millions)		**B**	**$3.4**	**$6.0**	**$4.0**	**$6.6**	**$7.2**	**$6.7**	**$5.7**	**N/A**	**40**
SPARES COST (In Millions)											**0**

PROGRAM DESCRIPTION/JUSTIFICATION:

This program provides for the centrally managed acquisition of equipment to detect and measure ionizing radiation and to convert these measurements into meaningful terms so that Navy personnel can adequately control radiation
exposure to Naval, Coast Guard, and Military Sealift Command personnel on ships as well as at shore activities, including shipyards, hospital, schools laboratories, air facilities, EOD activities, etc. Requirements for radiological data
obtained using these instruments are placed on the Navy by the Nuclear Regulatory Commission (Federal Laws) and within the Navy by the Nuclear Power Program and Naval Medical Command. This program supports requirements
for radiological monitoring equipment for the Nuclear Propulsion Program, the Radiological Affairs Support Program, Nuclear Weapons Handling Program, Chemical, Biological and Radiological Defense Program and the Naval Medical
Radiation Safety Program. Budget year requirements are based on future ship and shore allowances, establishment of new requirements and replacements for equipments which are lost, fail or become obsolete. The Multifunction
RADIAC and Laser Heated TLD programs replace older systems with equipment with increased capability that can be operated and maintained at lower life cycle cost.

REQUIREMENTS:

1. Nuclear Propulsion Program: Field changes, Items under $200K, Multifunction Radiac and Laser Heated TLDs.
2. Nuclear Weapons Program: Items under $200K, Multifunction Radiac.
3. Radiological Affairs Support Program: Items under $200K, Multifunction Radiac
4. Chemical, Biological and Radiological Program/Nuclear Warfare, Items under $200K, Multifunction Radiac
5. Naval Medical Radiation Safety Program: Field Changes, Items under $200K, DT-648/PD, Multifunction Radiac
6. EOD: Underwater Radiac.

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System	DATE: FEB 1998

APPROPRIATION/BUDGET ACTIVITY	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD
Other Procurement, Navy	B	NUCLEAR RADIATION SAFETY MONITORING EQUIPMENT (RADIAC) (82M2

COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS											
						FY 1997			FY 1998			FY 1999		
M2100-MFR CONTROL UNITM2100-MFR CONTROL UNIT			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
M2100	MULTIFUNCTION RADIACS													
	MFR CONTROL UNIT	A				454	1.183	537	1,000	1.183	1,183	1,000	1.183	1,183
	GAMMA/BETA PROBE	A										131	0.650	85
	BETA PROBE INTERFACE	A				458	0.633	290	560	0.650	364	375	0.650	244
	IM-260 EXTENDER	A										85	0.500	43
	DT-289 INTERFACE	A										142	1	142
	NEUTRON INTERFACE PROBE	A										126	5	630
	ALPHA PROBE	A				65	3.5	228	87	3.5	305	78	3.5	273
	MFR CHECKSOURCE KITS	A							206	1	206	206	1	206
M2200	LHTLD'S													
	DT-678	B				1253	0.295	370	2,347	0.295	692			
	CP-2197 READER (SHIP)	B				6	166	995	9	166	1,494			
M2300	UNDERWATER RADIAC	B							13	24	312	14	24	336
M2400	OTHER RADIAC													
	ACCEPTANCE TESTING	A						486			476			468
	ITEMS UNDER 200K	A						136			442			
M2830	PRODUCTION SUPPORT	A						367			477			425
TOTAL								**3,409**			**5,951**			**4,035**

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE February 1998
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy	C. P-1 ITEM NOMENCLATURE NUCLEAR RADIATION SAFETY MONITORING E EQUIPMENT (RADIAC)	SUBHEAD 82M2

Cost Element/ FISCAL YEAR	QTY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE
FY 1996										
M2100-GAMMA/BETA PROBE	790	0.633	NISE EAST		OPT	SAIC/SAN DIEGO	2/96	7/97		
FY1997										
M2100-MFR CONTROL UNIT	454	1.183	NISE EAST		OPT	SAIC/SAN DIEGO	1/97	12/98	YES	
M2100-BETA PROBE INTERFACE	458	0.633	NISE EAST		OPT	SAIC/SAN DIEGO	1/97	10/98		
M2100-ALPHA PROBE	65	3.5	NISE EAST		C/FP	SAIC/SAN DIEGO	8/98	2/99		
M2200-DT-678	1253	0.295	NSWC		C/FP	KEITHLEY,OHIO	2/97	3/98		
M2200-CP-2197 SHIP READER	6	166	NSWC		C/FP	KEITHLEY,OHIO	2/97	3/98		
FY1998										
M2100-MFR CONTROL UNIT	1000	1.183	SPAWARSYSCEN		OPT	SAIC/SAN DIEGO	1/98	4/99	YES	
M2100-BETA PROBE INTERFACE	560	0.65	SPAWARSYSCEN		OPT	SAIC/SAN DIEGO	2/98	2/99		
M2100-ALPHA PROBE	87	3.5	SPAWARSYSCEN		OPT	SAIC/SAN DIEGO	8/98	4/99		
M2100-MFR CHECKSOURCE KITS	206	1	SPAWARSYSCEN		C/FP	UNKNOWN	8/98	12/98		
M2200-DT-678	2347	0.295	SPAWARSYSCEN		C/FP	KEITHLEY,OHIO	1/98	10/98		
M2200-CP-2197 SHIP READER	9	166	SPAWARSYSCEN		C/FP	KEITHLEY,OHIO	1/98	10/98		
M2300-UNDERWATER RADIAC	13	24	NRAD,S.DIEGO		C/FP	UNKNOWN	3/98	12/98		
FY1999										
M2100-MFR CONTROL UNIT	1000	1.183	SPAWARSYSCEN		OPT	SAIC/SAN DIEGO	1/99	4/00	YES	
M2100-GAMM/BETA PROBE	131	0.65	SPAWARSYSCEN		OPT	SAIC/SAN DIEGO	2/99	5/00		
M2100-BETA PROBE INTERFACE	375	0.65	SPAWARSYSCEN		OPT	SAIC/SAN DIEGO	2/99	1/00		
M2100-260 EXTENDER	85	0.5	SPAWARSYSCEN		C/FP	UNKNOWN	12/98	5/99		
M2100-DT-289 INTERFACE	142	1	SPAWARSYSCEN		C/FP	SAIC/SAN DIEGO	12/98	5/99		
NEUTRON INTERFACE PROBE	126	5	SPAWARSYSCEN		C/FP	UNKNOWN	1/99	7/99		
M2100-ALPHA PROBE	78	3.5	SPAWARSYSCEN		OPT	SAIC/SAN DIEGO	1/99	7/99		
M2100-MFR CHECKSOURCE KITS	206	1	SPAWARSYSCEN		C/FP	UNKNOWN	1/00	7/00		
M2300-UNDERWATER RADIAC	14	24	NRAD,S.DIEGO		C/FP	UNKNOWN	1/99	7/99		

D. REMARKS

Exhibit P-20, Requirements Study	Approp Code/BA			Subhead		Date: **Feb-98**		
P-1 Line Item Nomenclature		Admin Leadtime (after Oct 1): 6 months				Prod Leadtime: 6 months		
Project Unit/Item **MFR Control Unit**	PY FY 1996	CY FY 1997	BY1 FY 1998	BY2 FY 1999	BY2+1 FY 2000	BY2+2 FY 2001	BY2+3 FY 2002	BY2+4 FY 2003
Buy Summary QTY	4034	454	1000	1000	1000	1000	2000	1500
Unit Cost	1173	1183	1183	1183	1183	1183	1183	1183
Total Cost ($ K)	4732	537	1183	1183	1183	1183	2366	1775
Asset Dynamics								
Beginning Asset Position	0	0	1575	3659	5722	7287	8214	10132
Deliveries from all prior year funding		1575	2100	268	0	0	0	0
Deliveries from FY 1997 funding				454				
Deliveries from FY 1998 funding				1000				
Deliveries from FY 1999 funding				378	622			
Deliveries from subsequent years' funding					1000	1000	2000	1500
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.		0	16	37	57	73	82	101
End of Year Asset Position	0	1575	3659	5722	7287	8214	10132	11531
Inventory Objective/Current Authorized Allowance	19198	19198	19198	19198	19198	19198	19198	19198
			16	37	57	73	82	101
Inventory Objective / Actual Training Expenditures	Other than Training Usage		Disposals (Vehicles/Other)					
PY thru _____:	PY thru _____:		PY thru _____:					
PY-1:	PY-1:		PY-1:					
PY-2:	PY-2:		PY-2:					
PY-3:	PY-3:		PY-3:					
TOTAL:								
REMARKS:								

Exhibit P-20, Requirements Study	Approp Code/BA			Subhead		Date: Feb-98		
P-1 Line Item Nomenclature		Admin Leadtime (after Oct 1): 6 months				Prod Leadtime: 6 months		
Project Unit/Item **Gamma /Beta Probe**	PY FY 1996	CY FY 1997	BY1 FY 1998	BY2 FY 1999	BY2+1 FY 2000	BY2+2 FY 2001	BY2+3 FY 2002	BY2+4 FY 2003
Buy Summary QTY	1746	0	0	131	68	18	0	1007
Unit Cost	633	0	0	650	650	1000	650	650
Total Cost ($ K)	1105	0	0	85	44	18	0	655
Asset Dynamics								
Beginning Asset Position	0	0	900	1737	1851	1900	1899	1880
Deliveries from all prior year funding		900	846					
Deliveries from FY 1997 funding								
Deliveries from FY 1998 funding								
Deliveries from FY 1999 funding				131				
Deliveries from subsequent years' funding					68	18		900
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.		0	9	17	19	19	19	19
End of Year Asset Position	0	900	1737	1851	1900	1899	1880	2761
Inventory Objective/Current Authorized Allowance	7000	7000	7000	7000	7000	7000	7000	7000
Inventory Objective	Actual Training Expenditures	Other than Training Usage		Disposals (Vehicles/Other)				
	PY thru _____:	PY thru _____:		PY thru _____:				
	PY-1:	PY-1:		PY-1:				
	PY-2:	PY-2:		PY-2:				
	PY-3:	PY-3:		PY-3:				
TOTAL:								
REMARKS:								

Exhibit P-20, Requirements Study	Approp Code/BA			Subhead		Date: **Feb-98**		
P-1 Line Item Nomenclature		Admin Leadtime (after Oct 1): 6 months				Prod Leadtime: 6 months		
Project Unit/Item **Beta Probe Interface**	PY FY 1996	CY FY 1997	BY1 FY 1998	BY2 FY 1999	BY2+1 FY 2000	BY2+2 FY 2001	BY2+3 FY 2002	BY2+4 FY 2003
Buy Summary QTY	1244	458	560	375	0	26	26	26
Unit Cost	648	633	650	650	0	1300	1300	1300
Total Cost ($ K)	806	290	364	244	0	34	34	34
Asset Dynamics								
Beginning Asset Position	0	0	600	1194	1782	2364	2577	2577
Deliveries from all prior year funding		600	600	44				
Deliveries from FY 1997 funding				458				
Deliveries from FY 1998 funding				98	462			
Deliveries from FY 1999 funding					138	237		
Deliveries from subsequent years' funding						0	26	26
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.		0	6	12	18	24	26	26
End of Year Asset Position	0	600	1194	1782	2364	2577	2577	2577
Inventory Objective/Current Authorized Allowance	2641	2641	2641	2641	2641	2641	2641	2641
Inventory Objective	Actual Training Expenditures	Other than Training Usage		Disposals (Vehicles/Other)				
	PY thru _____:	PY thru _____:		PY thru _____:				
	PY-1:	PY-1:		PY-1:				
	PY-2:	PY-2:		PY-2:				
	PY-3:	PY-3:		PY-3:				
TOTAL:								
REMARKS:								

Exhibit P-20, Requirements Study	Approp Code/BA	Subhead	Date: Feb-98
P-1 Line Item Nomenclature	Admin Leadtime (after Oct 1): 6 months		Prod Leadtime: 6 months

Project Unit/Item **IM-260 Extender**	PY FY 1996	CY FY 1997	BY1 FY 1998	BY2 FY 1999	BY2+1 FY 2000	BY2+2 FY 2001	BY2+3 FY 2002	BY2+4 FY 2003
Buy Summary QTY				85	85	73	3	3
Unit Cost				500	500	500	1000	1000
Total Cost ($ K)				43	43	37	3	3
Asset Dynamics								
Beginning Asset Position				0	85	169	237	238
Deliveries from all prior year funding								
Deliveries from FY 1997 funding								
Deliveries from FY 1998 funding								
Deliveries from FY 1999 funding				85				
Deliveries from subsequent years' funding					85	70	3	3
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.				0	1	2	2	2
End of Year Asset Position				85	169	237	238	239
Inventory Objective/Current Authorized Allowance				256	256	256	256	256

Inventory Objective	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)
	PY thru _____:	PY thru _____:	PY thru _____:
	PY-1:	PY-1:	PY-1:
	PY-2:	PY-2:	PY-2:
	PY-3:	PY-3:	PY-3:
TOTAL:			

REMARKS:

Exhibit P-20, Requirements Study	Approp Code/BA			Subhead		Date: **Feb-98**		
P-1 Line Item Nomenclature		Admin Leadtime (after Oct 1): 6 months				Prod Leadtime: 6 months		
Project Unit/Item **DT-289 Interface**	PY FY 1996	CY FY 1997	BY1 FY 1998	BY2 FY 1999	BY2+1 FY 2000	BY2+2 FY 2001	BY2+3 FY 2002	BY2+4 FY 2003
Buy Summary QTY				142	93	142	4	4
Unit Cost				1000	1000	1000	1000	1000
Total Cost ($ K)				142	93	142	4	4
Asset Dynamics								
Beginning Asset Position				0	142	234	374	374
Deliveries from all prior year funding								
Deliveries from FY 1997 funding								
Deliveries from FY 1998 funding								
Deliveries from FY 1999 funding				142				
Deliveries from subsequent years' funding					93	142	4	4
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.				0	1	2	4	4
End of Year Asset Position				142	234	374	374	374
Inventory Objective/Current Authorized Allowance				427	427	427	427	427
Inventory Objective	Actual Training Expenditures	Other than Training Usage		Disposals (Vehicles/Other)				
	PY thru _____:	PY thru _____:		PY thru _____:				
	PY-1:	PY-1:		PY-1:				
	PY-2:	PY-2:		PY-2:				
	PY-3:	PY-3:		PY-3:				
TOTAL:								
REMARKS:								

Exhibit P-20, Requirements Study	Approp Code/BA			Subhead		Date: **Feb-98**		
P-1 Line Item Nomenclature		Admin Leadtime (after Oct 1): 6 months				Prod Leadtime: 6 months		
Project Unit/Item **Neutron Interface Probe**	PY FY 1996	CY FY 1997	BY1 FY 1998	BY2 FY 1999	BY2+1 FY 2000	BY2+2 FY 2001	BY2+3 FY 2002	BY2+4 FY 2003
Buy Summary QTY				126	126	126	42	42
Unit Cost				5000	5000	5000	5000	5000
Total Cost ($ K)	0	0	0	630	630	630	210	210
Asset Dynamics								
Beginning Asset Position	0	0	0	0	126	251	374	412
Deliveries from all prior year funding								
Deliveries from FY 1997 funding								
Deliveries from FY 1998 funding								
Deliveries from FY 1999 funding				126				
Deliveries from subsequent years' funding					126	126	42	42
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.				0	1	3	4	4
End of Year Asset Position				126	251	374	412	450
Inventory Objective/Current Authorized Allowance				589	589	589	589	589
Inventory Objective	Actual Training Expenditures	Other than Training Usage		Disposals (Vehicles/Other)				
	PY thru _____:	PY thru _____:		PY thru _____:				
	PY-1:	PY-1:		PY-1:				
	PY-2:	PY-2:		PY-2:				
	PY-3:	PY-3:		PY-3:				
TOTAL:								
REMARKS:								

Exhibit P-20, Requirements Study	Approp Code/BA			Subhead		Date: **Feb-98**		
P-1 Line Item Nomenclature		Admin Leadtime (after Oct 1): 6 months				Prod Leadtime: 6 months		
Project Unit/Item **Alpha Probe**	PY FY 1996	CY FY 1997	BY1 FY 1998	BY2 FY 1999	BY2+1 FY 2000	BY2+2 FY 2001	BY2+3 FY 2002	BY2+4 FY 2003
Buy Summary QTY		65	87	78	78	78	417	417
Unit Cost		3500	3500	3500	3500	3500	3500	3500
Total Cost ($ K)	0	228	305	273	273	273	1460	1460
Asset Dynamics								
Beginning Asset Position			0	0	152	306	381	585
Deliveries from all prior year funding								
Deliveries from FY 1997 funding				65				
Deliveries from FY 1998 funding				87				
Deliveries from FY 1999 funding					78			
Deliveries from subsequent years' funding					78	78	208	417
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.			0	0	2	3	4	6
End of Year Asset Position			0	152	306	381	585	996
Inventory Objective/Current Authorized Allowance			2503	2503	2503	2503	2503	2503
Inventory Objective	Actual Training Expenditures	Other than Training Usage		Disposals (Vehicles/Other)				
	PY thru _____:	PY thru _____:		PY thru _____:				
	PY-1:	PY-1:		PY-1:				
	PY-2:	PY-2:		PY-2:				
	PY-3:	PY-3:		PY-3:				
TOTAL:								
REMARKS:								

Exhibit P-20, Requirements Study	Approp Code/BA	Subhead	Date: Feb-98
P-1 Line Item Nomenclature	Admin Leadtime (after Oct 1): 6 months		Prod Leadtime: 6 months

Project Unit/Item **MFR Checksource Kits**	PY FY 1996	CY FY 1997	BY1 FY 1998	BY2 FY 1999	BY2+1 FY 2000	BY2+2 FY 2001	BY2+3 FY 2002	BY2+4 FY 2003
Buy Summary QTY			206	206	206			
Unit Cost			1000	1000	1000			
Total Cost ($ K)			206	206	206			
Asset Dynamics								
Beginning Asset Position			0	100	306	512	618	618
Deliveries from all prior year funding								
Deliveries from FY 1997 funding								
Deliveries from FY 1998 funding			100	106				
Deliveries from FY 1999 funding				100	106			
Deliveries from subsequent years' funding					100	106		
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.				0	0	0	0	0
End of Year Asset Position			100	306	512	618	618	618
Inventory Objective/Current Authorized Allowance				638	638	638	638	638

Inventory Objective	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)
	PY thru _____:	PY thru _____:	PY thru _____:
	PY-1:	PY-1:	PY-1:
	PY-2:	PY-2:	PY-2:
	PY-3:	PY-3:	PY-3:
TOTAL:			

REMARKS:

Exhibit P-20, Requirements Study	Approp Code/BA			Subhead		Date: **Feb-98**		
P-1 Line Item Nomenclature		Admin Leadtime (after Oct 1): 9 months				Prod Leadtime: 6 months		
Project Unit/Item **DT-678**	PY FY 1996	CY FY 1997	BY1 FY 1998	BY2 FY 1999	BY2+1 FY 2000	BY2+2 FY 2001	BY2+3 FY 2002	BY2+4 FY 2003
Buy Summary QTY	908	1253	2347	0	16129	14333		
Unit Cost	295	295	295	0	93	93		
Total Cost ($ K)	268	370	692	0	1500	1333		
Asset Dynamics								
Beginning Asset Position		0	908	4499	4454	4409	20494	34622
Deliveries from all prior year funding		908	0					
Deliveries from FY 1997 funding			1253					
Deliveries from FY 1998 funding			2347	0				
Deliveries from FY 1999 funding					0			
Deliveries from subsequent years' funding					0	16129	14333	
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.			9	45	45	44	205	346
End of Year Asset Position		908	4499	4454	4409	20494	34622	34276
Inventory Objective/Current Authorized Allowance	94920	94920	94920	94920	94920	94920	94920	94920
Inventory Objective	Actual Training Expenditures	Other than Training Usage		Disposals (Vehicles/Other)				
	PY thru _____:	PY thru _____:		PY thru _____:				
	PY-1:	PY-1:		PY-1:				
	PY-2:	PY-2:		PY-2:				
	PY-3:	PY-3:		PY-3:				
TOTAL:								
REMARKS:								

Exhibit P-20, Requirements Study	Approp Code/BA			Subhead		Date: **Feb-98**		
P-1 Line Item Nomenclature		Admin Leadtime (after Oct 1): 9 months				Prod Leadtime: 9 months		
Project Unit/Item **CP-2197**	PY FY 1996	CY FY 1997	BY1 FY 1998	BY2 FY 1999	BY2+1 FY 2000	BY2+2 FY 2001	BY2+3 FY 2002	BY2+4 FY 2003
Buy Summary QTY	2	6	9	0	15	23		
Unit Cost($K)	166	166	166	80	80	80		
Total Cost ($ K)	332	996	1494	0	1200	1840		
Asset Dynamics								
Beginning Asset Position	0	0	2	8	17	17	32	55
Deliveries from all prior year funding		2	0					
Deliveries from FY 1997 funding			6					
Deliveries from FY 1998 funding				9				
Deliveries from FY 1999 funding					0			
Deliveries from subsequent years' funding						15	23	
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.	0	0	0	0	0	0	0	1
End of Year Asset Position	0	2	8	17	17	32	55	54
Inventory Objective/Current Authorized Allowance	206	206	206	206	206	206	206	206
Inventory Objective	Actual Training Expenditures	Other than Training Usage		Disposals (Vehicles/Other)				
	PY thru _____:	PY thru _____:		PY thru _____:				
	PY-1:	PY-1:		PY-1:				
	PY-2:	PY-2:		PY-2:				
	PY-3:	PY-3:		PY-3:				
TOTAL:								
REMARKS:								

Exhibit P-20, Requirements Study	Approp Code/BA	Subhead	Date: Feb-98
P-1 Line Item Nomenclature	Admin Leadtime (after Oct 1): 6 months		Prod Leadtime: 9 months

Project Unit/Item **Underwater RADIAC**	PY FY 1996	CY FY 1997	BY1 FY 1998	BY2 FY 1999	BY2+1 FY 2000	BY2+2 FY 2001	BY2+3 FY 2002	BY2+4 FY 2003
Buy Summary QTY			13	14	13	13	9	
Unit Cost			24000	24000	24000	24000	24000	
Total Cost ($ K)			312	336	312	312	216	
Asset Dynamics								
Beginning Asset Position			0	0	13	27	40	53
Deliveries from all prior year funding								
Deliveries from FY 1997 funding								
Deliveries from FY 1998 funding				13				
Deliveries from FY 1999 funding					14			
Deliveries from subsequent years' funding						13	13	9
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.				0	0	0	0	1
End of Year Asset Position			0	13	27	40	53	61
Inventory Objective/Current Authorized Allowance			79	79	79	79	79	79

Inventory Objective	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)
	PY thru _____:	PY thru _____:	PY thru _____:
	PY-1:	PY-1:	PY-1:
	PY-2:	PY-2:	PY-2:
	PY-3:	PY-3:	PY-3:
TOTAL:			

REMARKS:

CLASSIFICATION: **UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET P-40	DATE: February 1998
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA: 2 COMMUNICATIONS AND ELECTRONICS	P-1 ITEM NOMENCLATURE/LINE ITEM # GENERAL PURPOSE ELECTRONIC TEST EQUIPMENT (GPETE) / 294000
Program Element for Code B Items:	OTHER RELATED PROGRM ELEMENTS

	Prior Years	ID Code			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY													0
EQUIPMENT COST (In Millions)		A			$9.1	$7.3	$9.7	$9.1	$9.3	$9.5	$9.8		**$63.7**
SPARES COST (In Millions)													0

PROGRAM DESCRIPTION/JUSTIFICATION:

This program procures and distributes General Purpose Electronic Test Equipment (GPETE). This equipment is essential to the operational readiness of the Navy for repair, installation, and maintenance (preventive and routine) of electronic systems and equipments, both afloat and ashore. The GPETE procured must meet rigid technical requirements, be cost effective and satisfy valid deficiencies in authorized allowance.

GPETE was transferred to Navy Capital Working Fund (formerly the Navy Stock Fund) in FY 92 and the Resource Sponsors are required to program procurement of GPETE Initial Outfitting; GPETE Systems Stock or replenishmernt is programmed in another appropriation. Naval Inventory Control Point will "Buy-In" GPETE using Defense Business Operating Funds consistent with resource sponsors programmed requirements. NAVSEA System Command will "Buy-Out" GPETE in accordance with Required Delivery Dates.

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System	DATE: February 1998

APPROPRIATION/BUDGET ACTIVITY	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD
Other Procurement, Navy BA- 2: COMMUNICATIONS AND ELECTRONIC EQUIPMENT	A	GENERAL PURPOSE ELECTRONIC TEST EQUIPMENT (GPETE) 82M6

COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS											
			FY 1996			FY 1997			FY 1998			FY 1999		
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
	N091 TEST AND EVAL													
M6000	FIBER OPTICS AND DATA COMM								17	3,755	64			
M6001	SIGNAL GENERATORS AND ANALYZERS					30	4,561	136	16	3,878	62	126	1,089	137
M6002	OSCILLSCPS, METERS AND COUNTERS													
M6003	PROC ENGR AND DOCUMENTATION							75			25			40
	N096 OCEANOGRAPHY													
M6000	FIBER OPTICS AND DATA COMM					10	2,740	27	39	6,920	270	3	9,325	28
M6001	SIGNAL GENERATORS AND ANALYZERS					246	1,311	323	35	2,222	78	62	6,741	418
M6002	OSCILLSCPS, METERS AND COUNTERS													
M6003	PROC ENGR AND DOCUMENTATION							182			60			149
	N6 SEW & C4													
M6000	FIBER OPTICS AND DATA COMM					40	21,240	850	52	7,092	369	40	12,233	489
M6001	SIGNAL GENERATORS AND ANALYZERS					45	14,751	664	100	6,425	642	189	4,243	802
M6002	OSCILLSCPS, METERS AND COUNTERS													
M6003	PROC ENGR AND DOCUMENTATION										201			422
	N86- SURFACE WARFARE													
M6000	FIBER OPTICS AND DATA COMM					669	2,523	1,688	121	7,775	941	40	33,068	1,306
M6001	SIGNAL GENERATORS AND ANALYZERS					5	125,220	626	513	3,378	1,733	436	3,546	1,546
M6002	OSCILLSCPS, METERS AND COUNTERS													
M6003	PROC ENGR AND DOCUMENTATION							1,271			400			801
	N87 -SUBMARINE WARFARE													
M6000	FIBER OPTICS AND DATA COMM					151	3,505	529	24	6,372	153	24	13,639	327
M6001	SIGNAL GENERATORS AND ANALYZERS					250	1,376	344	250	2,510	627	284	2,436	692
M6002	OSCILLSCPS, METERS AND COUNTERS													
M6003	PROC ENGR AND DOCUMENTATION							457			146			341
	N88 AIR WARFARE													
M6000	FIBER OPTICS AND DATA COMM					307	2,127	653	18	10,881	196	24	10,459	251
M6001	SIGNAL GENERATORS AND ANALYZERS					494	1,246	616	205	5,295	1,085	331	4,228	1,399
M6002	OSCILLSCPS, METERS AND COUNTERS													
M6003	PROC ENGR AND DOCUMENTATION							657			236			511
	N85 EXPEDITIONARY WARFARE													
M6001	SIGNAL GENERATORS AND ANALYZERS													
TOTAL								**9,098**			**7,288**			**9,659**

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE February 1998
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA: 2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT	C. P-1 ITEM NOMENCLATURE GENERAL PURPOSE ELECTRONIC TEST EQUIPMENT (GPETE)	SUBHEAD 82M6

Cost Element/ FISCAL YEAR	QTY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE
FY-97										
M6000	1,177	2.8	NAVICP	9/97	PD	NAVICP	1/98	3/98	YES	
M6001	1,070	2.6	NAVICP	9/97	PD	NAVICP	1/98	3/98	YES	
FY-98										
M6000	271	7.4	NAVICP	9/98	PD	NAVICP	1/99	3/99	YES	
M6001	1,119	3.8	NAVICP	9/98	PD	NAVICP	1/99	3/99	YES	
FY-99										
M6000	131	18.7	NAVICP	9/99	PD	NAVICP	1/00	3/00	YES	
M6001	1,428	3.5	NAVICP	9/99	PD	NAVICP	1/00	3/00	YES	

D. REMARKS

BUDGET ITEM JUSTIFICATION SHEET P-40	DATE: February 1998
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY** **BA-2: COMMUNICATION AND ELECTRONIC EQUIPMENT**	P-1 ITEM NOMENCLATURE/LINE ITEM # ***INTEGRATED COMBAT SYSTEMS TEST FACILITY (ICSTF) - 296000***
Program Element for Code B Items:	OTHER RELATED PROGRM ELEMENTS **63582N**

	Prior Years	ID Code			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY													0
EQUIPMENT COST (In Millions)					$4.8	$3.8	$4.5	$4.4	$4.5	$4.7	$4.7		31.4
SPARES COST (In Millions)					$0.1	$0.5	$0.4	$0.5	$0.4	$0.5	$0.4		2.8

PROGRAM DESCRIPTION/JUSTIFICATION:

Integrated Combat Systems Test Facility (ICSTF) PHD, NSWC is the Navy owned and operated combat systems computer program integration test site in San Diego at NCCOSC RDT&E,N Division. ICSTF performs an essential role in promoting the readiness of surface combatant computer program networks. ICSTF's mission is to perform certification testing of computer programs prior to delivery to the Fleet. The threat driven requirement of inter-system data exchange has continued to grow exponentially since USS CALIFORNIA's protracted pierside recovery program in the 1970's. ICSTF has been used efficiently to detect combat system computer program problems on most configurations of surface combatants, providing knowledge of and corrective action for the remaining problems. The cost of fixing the problems increase significantly with time, either in dollars and/or ship operations days. The cost of detecting the problems during deployment may be measured in harsher terms.

ICSTF is the only permanent Navy facility for testing CV/CVN, LHD, LHA, LPD-17, DD-963, FFG and NTU ship class shipboard combat system computer networks and for providing combat system in-service engineering support for Fleet identified problems. The site can support basic testing of the current combat system configurations. As existing combat subsystems are upgraded and/or new subsystems are added to the CV/CVN and amphibious ship class combat system configurations, ICSTF must upgrade its testbeds to perform computer network integration and certification testing.

The basic procurement program outlined herein is directed at adding to ICSTF the capability of supporting the following upgrades/new systems:

BFTT	CVN-76 Combat System	LPD-17 Combat System
Fiber Optics	Open Architecture	CEC Upgrade
ACDS Block 1	COTS	CIFF
Battle Group Testing	SSDS/ISDS/ICDS	C41

In addition, the basic program provides for increasing centralized test support so that ICSTF can provide simultaneous support to multiple ship classes.

All procurements will be received and installed by ICSTF. Installations are based on CSIT schedules

BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION	DATE: Feb 1998
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA-2: COMMUNICATION AND ELECTRONIC EQUIPMENT	P-1 ITEM NOMENCLATURE/LINE ITEM # INTEGRATED COMBAT SYSTEMS TEST FACILITY (ICSTF) - 296000

The Shipboard Electronics Systems Evaluation Facilities (SESEF) are Navy-owned and operated test ranges capable of action as the partner in two party operational performance testing of systems currently in the Fleet (i.e., AIMS MK XII IFF (all modes), TACAN, conventional radars (both search and fire control), communication systems secure voice and LINK 11/4A). The SESEF provides ship Captains and Type Commanders the capability of measuring and testing a ship's condition of material. Readiness at the completion of construction, industrial availability, during routine ship operations and prior to deployment.

Consistent with the CNO's approval for modernization of SESEFs, OPN funds have been provided to procure equipment to upgrade the capabilities for Ft. Story, VA., San Diego, CA., Puget Sound, WA., Pearl Harbor, HI., Yokosuka, Japan, and Mayport, FL. This equipment will provide two party capabilities to test the new and more complex ship board electronic systems (i.e., SLQ-32, AN/SPY-1, etc.) and perform antenna radiation pattern measurements.

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System	DATE: Feb 1998

APPROPRIATION/BUDGET ACTIVITY	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD
OTHER PROCUREMENT, NAVY BA-2: COMMUNICATION AND ELECTRONIC EQUIPMENT		INTEGRATED COMBAT SYSTEMS TEST FACILITY (ICSTF) - 296000

COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS											
						FY 1997			FY 1998			FY 1999		
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
	SURFACE SHIPS (N86)													
M8100	**CS ELEC EQUIP**	A									**2,233**			**2,640**
M8026	AN/SLQ-32 Upgrades											1	850	(850)
M8047	Control Console Repl					4	184	**739**	1	200	(200)	5	166.0	(830)
M8089	Supt Sys Processor								4	30	(120)	7	30	(210)
M8101	Centralized IFF					1	245	**245**	1	311	(311)			
M8125	SSDS/RAIDS					1	1,000	**1,000**				1	750	(750)
M8129	Cooperative Engagement Capability (CEC)								2	325	(650)			
M8131	Fiber Optic Data Sys							**120**			(135)			
M8136	VME BASED KCMX EMULATOR	A												
M8139	TAC Series Workstation					1	58	**58**	1	60	(60)			
M8143	NAVSSI					1		**271**	1	157	(157)			
M8144	NATO REACH								1	600	(600)			
M8200	**SS ELEC EQUIP**	A									**260**			**381**
M8004	Misc Elec Equipment							**284**			(110)			(306)
M8084	Data Reduction/analysis							**300**			(150)			(75)
M8300	**CS SIMULATION**	A									**476**			**378**
M8130	CS Simulation							**968**			(476)			(378)
M8400	**SESEF ELECTRONICS EQUIP**	A						**557**			**546**			**792**
M8900	**SESEF CONSULTING SERVICES**	A						**133**			**134**			**145**
M86IN	**EQUIPMENT INSTALLATION**							**139**			**137**			**146**
TOTAL								**4,814**			**3,786**			**4,482**

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE Feb 1998
B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA-2: COMMUNICATION AND ELECTRONIC EQUIPMENT	C. P-1 ITEM NOMENCLATURE INTEGRATED COMBAT SYSTEM TEST FACILITY (ICSTF)	SUBHEAD 82M8

Cost Element/ FISCAL YEAR	QTY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW YES/NO	IF NO WHEN AVAILABLE
FY 1995										
CONRL CONSL REPL	4	120	NAVSEA		C/FP	LORAL, ST. PAUL, MN	05/95	10/95	YES	
FY 1996										
VME BASED KCMX EM	2	83.5	NSWC, PHD		WX	MUCPAC CORP	03/96	03/97		
NAVSSI	1	294	SPAWAR		C/FP	TELOS	07/96	09/96		
FY 1997										
CONRL CONSL REPL	4	184	NAVSEA		C/FP	LORAL, ST. PAUL, MN	05/97	09/97		
SSDS/RAIDS	1	1000	NAVSEA		C/FP	HUGHES, SAN DIEGO, CA	03/98	03/99		
TAC SERIES WORK STA	1	58	NRAD		C/FP	HEWLETT-PACKARD PALO ALTO, CA	01/98	06/97	YES	
NAVSSI	1	271	SPAWAR		C/FP	TELOS	01/97	06/97		
CENTRALIZED IFF	1	245	NAVSEA		WR	NAWCAD	04/97	09/97		
FY 1998										
CONRL CONSL REPL	1	200	NAVSEA		C/FP	LORAL, ST. PAUL, MN	03/98	09/98		
SPT SYS PROCESSOR	4	30	NSWC, PHD		WR	ELMA, OAKLAND, CA	03/98	09/98		
COOP ENGAGE CAPB	2	325	NAVSEA		C/FP	APL/JHU, MD	03/98	03/99		
NATO REACH	1	600	NAVSEA		C/FP	RAYTHEON, WAYLAND, MA	03/98	03/99		
TAC SERIES WORK STA	1	60	NRAD		C/FP	HEWLETT-PACKARD PALO ALTO, CA	01/98	06/98		
NAVSSI	1	157	SPAWAR		C/FP	TELOS	03/98	01/99		
CENTRALIZED IFF	1	311	NAVSEA		WR	NAWCAD	04/98	09/98		
FY 1999										
CONRL CONSL REPL	5	166	NAVSEA		C/FP	LORAL, ST. PAUL, MN	03/99	09/99		
AN/SLQ-32 UPGRADE	1	850	NAVSEA		C/FP	RAYTHEON, WAYLAND, MA	03/99	09/99		
SSDS/RIADS	1	750	NAVSEA		C/FP	HUGHES, SAN DIEGO, CA	03/98	03/99		
SPT SYS PROCESSOR	7	30	NSWC, PHD		WR	ELMA, OAKLAND, CA	03/99	09/99		

D. REMARKS

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: N/A TYPE MODIFICATION: N/A MODIFICATION TITLE: N/A

DESCRIPTION/JUSTIFICATION:

INSTALLATION OF TEST BED EQUIPMENT REQUIRED TO CONDUCT PLANNED COMBAT SYSTEM INTEGRATION TEST

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																								
RDT&E																								0.0
PROCUREMENT																								
INSTALLATION KITS																								0.0
INSTALLATION KITS NONRECURRING																								0.0
EQUIPMENT				2.6		5.7	VAR	4.5	VAR	3.5	VAR	4.2	VAR	4.2	VAR	4.2	VAR	4.4	VAR	4.4				37.7
EQUIPMENT NONRECURRING																								0.0
ENGINEERING CHANGE ORDERS																								0.0
DATA																								0.0
TRAINING EQUIPMENT																								0.0
SUPPORT EQUIPMENT																								0.0
OTHER				0.2		0.1		0.1		0.1		0.1		0.1		0.1		0.1		0.1				1.3
OTHER																								0.0
OTHER																								0.0
INTERIM CONTRACTOR SUPPORT																								0.0
INSTALL COST				0.1		0.1		0.1		0.1		0.1		0.1		0.1		0.1		0.1				1.2
TOTAL PROCUREMENT		0.0		2.9		6.0		4.8		3.8		4.5		4.4		4.5		4.7		4.7		0.0		40.3

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

MODELS OF SYSTEMS AFFECTED: _____ MODIFICATION TITLE: _____

INSTALLATION INFORMATION: _____
METHOD OF IMPLEMENTATION: **NOT APPLICABLE**
ADMINISTRATIVE LEADTIME: VARIOUS PRODUCTION LEADTIME: VARIOUS
CONTRACT DATES: FY 1997: VARIOUS FY 1998: VARIOUS FY 1999: VARIOUS
DELIVERY DATE: FY 1997: VARIOUS FY 1998: VARIOUS FY 1999: VARIOUS

($ in Millions)

Cost:	Prior Years		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																								
FY 1995 EQUIPMENT				0.140																				0
FY 1996 EQUIPMENT						0.129																		0
FY 1997 EQUIPMENT								0.139																0.139
FY 1998 EQUIPMENT										0.137														0.137
FY 1999 EQUIPMENT												0.146												0 0.146
FY 2000 EQUIPMENT														0.097										0 0.097
FY 2001 EQUIPMENT																0.145								0 0.145
FY 2002 EQUIPMENT																		0.144						0 0.144
FY 2003 EQUIPMENT																				0.144				0 0.144
TO COMPLETE																								0 0

INSTALLATION SCHEDULE: SHIP AVAILABILITIES

	FY 1996	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BUDGET ITEM JUSTIFICATION SHEET P-40	DATE: February 1998
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA: 2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	P-1 ITEM NOMENCLATURE/LINE ITEM # CALIBRATION STANDARDS 82NB 2962000
Program Element for Code B Items:	OTHER RELATED PROGRM ELEMENTS

	Prior Years	ID Code			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY	N/A	N/A										N/A	0
EQUIPMENT COST (In Millions)					$2.1	$11.8	$1.9	$1.1	$1.8	$1.9	$1.9	N/A	$22.5
SPARES COST (In Millions)												N/A	0

PROGRAM DESCRIPTION/JUSTIFICATION:

These funds procure calibration equipment for intermediate and organizational maintenance levels. Test and Monitoring Systems (TAMS), which include test equipment and gages must be calibrated to ensure the equipment are operational, accurate and precise.

Funds are used to procure Calibration Standards. Calibration Standards are equipments which ensure the accuracy of test equipment used to install, align and maintain all Navy Weapons systems shore and afloat. IMA Mechanical Standards programs provides various new and replacement calibration equipment for instrument repair and calibration shops aboard tenders and shore based intermediate maintenance activities. The Shipboard Gage Calibration program provides the organization maintenance level aboard ship with portable calibration equipment to provide calibration support in only specific types of measurement.

Integrated Condition Assessment System (ICAS) is an NDI (COTS Equipment) computer based system that provides real-time, on-line machinery condition monitoring and failure detection, diagnosis, trending for failure prognosis and expert troubleshooting capability. ICAS us linked through data networks to other critical ship systems, such as Machinery Control, Damage Control and Bridge Systems to receive necessary sensory information.

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System	DATE: February 1998

APPROPRIATION/BUDGET ACTIVITY	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD
Other Procurement, Navy		CALIBRATION STANDARDS 82NB

COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS											
			FY 1996			FY 1997			FY 1998			FY 1999		
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
	SPONSOR N4													
NB320	CALIBRATION STANDARDS							2,138			2,027			1,871
	MECHANICAL STANDARDS							400			400			400
	ELECTRONIC STANDARDS							1,338			1,227			1,071
	ACCEPTANCE AND PRODUCTIONS TEST							300			300			300
	TRAINING COURSE STANDARDS							100			100			100
NB330	ICAS										9,767			
TOTAL								**2,138**			**11,794**			**1,871**

BUDGET ITEM JUSTIFICATION SHEET
P-40

DATE: February 1998

APPROPRIATION/BUDGET ACTIVITY
OTHER PROCUREMENT, NAVY
BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE/LINE ITEM #
EMI CONTROL INSTRUMENTATION LI:2970 82MA

Program Element for Code B Items:

OTHER RELATED PROGRAM ELEMENTS

	Prior Years	ID Code	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY													
EQUIPMENT COST (In Millions)	N/A	A			$5.3	$4.9	$7.5	$7.6	$7.9	$8.0	$8.0		49.2
SPARES COST (In Millions)													

PROGRAM DESCRIPTION/JUSTIFICATION:

Funds will be used to procure emergency field change kits, hardware devices and sensor kits to solve Electromagnetic Interference (EMI) problems in electronic systems/equipment's throughout the surface ship NAVY. The fixes which include various types of filters, limiters, blankers and shielding will be installed by fleet support and maintenance personnel to eliminate EMI where it is causing unacceptable degradation in the operational performance of mission-essential systems. EMI control instrumentation will be procured for use in identifying the sources of EMI and determining the extent of EMI so that effective corrective measures can be applied. Better definition of the problems will also provide data which will be used by designers to reduce EMI problems in future systems and equipment's. The instrumentation procured will include automated and special EMI test equipment, (e.g. spectrum analyzers, field intensity meters, AN/PSM-40 series test sets, etc.). Instrumentation, hardware and software will also be procured to upgrade the Frequency Assignment Computer Terminal Systems (FACTS) and to provide remote access capability to the Communications Area Master Stations (CAMS) and other high-density users.

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System	DATE: February 1998

APPROPRIATION/BUDGET ACTIVITY	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD
Other Procurement, Navy BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT		EMI CONTROL INSTRUMENTATION LI:2970 82MA

COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS											
			FY 1996			FY 1997			FY 1998			FY 1999		
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
	ELECTRONICS SUPPORT (OP-N6)													
MA001	EMERG FIELD CHANGE KITS	A						31			55			500
MA104	EMI CONTROL INSTRUMENTATION	A						1,028			1,190			1,586
MA107	FACTS INSTRUMENTATION	A						130			131			150
	ELECTRONICS SUPPORT (OP-N4)													
MA001	EMERG FIELD CHANGE KITS	A						284						
MA004	FIXES & SENSOR KITS	A						3,821			3,492			5,300
TOTAL								**5,294**			**4,868**			**7,536**

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

BUDGET ITEM JUSTIFICATION SHEET P-40	DATE: February 1998
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT NAVY/BA-2	P-1 ITEM NOMENCLATURE/LINE ITEM # *Shore Electronic Items under $2.0M - 297500*
Program Element for Code B Items:	OTHER RELATED PROGRM ELEMENTS N/A

	Prior Years	ID Code			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY													0
EQUIPMENT COST (In Millions)					$3.9	$3.3	$2.6	$3.7	$4.0	$5.4	$5.7		28.6
SPARES COST (In Millions)													0

PROGRAM DESCRIPTION/JUSTIFICATION:

Provides funds for: Procurement of AN/UYS-2A hardware, including assemblies, spares, and repair parts, production engineering, quality assurance and acceptance testing to support both AN/UYS-2A procurements and modernization of support equipment and materials for the following:
DDG-79, AN/SQQ-89(V)14, DDG-993, COTS AN/SQQ-89, P-3 Special Projects, and SH-60R Airborne Low Frequency Sonar (ALFS); the Tactical Embedded Computer Resources (TECR) Reutilization program which refurbishes, reconfigures, and tests TECR assets made available from decommissionings and other downsizing efforts and provides these assets to satisfy current tactical systems requirements; the Computer Open Systems Implementation Program (COSIP), which affords Navy applications greater use of commercially available technology; and the TECR Depot and Diminishing Manufacturing Sources (DMS) capability, including procurement of test equipment and potentially obsolete parts to maintain both organic and original equipment manufacturer depots for out-of production equipment which will remain in the Fleet well past the year 2010.

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5														Weapon System			DATE: February 1998		
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-2: Communications and Electronic Equipment						ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD Shore Electronic Items under $2.0M - 297500 S/H 82M7												
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS																
						FY 1997			FY 1998			FY 1999							
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST					
	SPONSOR: N62																		
M7505	AN/UYS-2 SUPPORT							1,591			1,882			1,791					
M7511	COSIP							416			312			154					
M7512	TECR REUTILIZATION							0			200			205					
M7513	TECR DEPOT/DMS							1,587			951			409					
M7900	CONSULTING SERVICES							329			0			0					
TOTAL								**3,923**			**3,345**			**2,559**					

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
BLI: 3010 Ship Tactical Comms

SUBHEAD
52DN

	PY			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TO COMP	TOTAL
QUANTITY												
COST (in millions)	**$112.5**			**$8.4**	**$23.7**	**$34.4**	**$35.9**	**$34.4**	**$39.6**	**$45.3**	**$358.3**	**$692.5**

PROGRAM COVERAGE: SHIP TACTICAL COMMUNICATIONS SYSTEMS ARE PROCURED UNDER THIS PROGRAM. THE EQUIPMENT PROCURED COVERS THE FREQUENCY SPECTRUM FROM MEDIUM FREQUENCY TO ULTRA HIGH FREQUENCY.

ITEMS PROCURED UNDER THIS PROGRAM PROVIDE INTERCONNECTIVITY WITH THE JMCOMS ARCHITECTURES INCLUDING ADNS AND SLICE.

HF TILT MECHANISMS - DEVICES TO ENABLE VERTICAL WHIP ANTENNA TO BE LOWERED TO A HORIZONTAL POSITION DURING FLIGHT OPERATIONS.

HFRG BROADBAND - HIGH FREQUENCY RADIO GROUP THAT WILL ALLOW FULLY AUTOMATED OPERATION OF THE HF COMMUNICATIONS SYSTEM. THIS SYSTEM WILL REDUCE THE NUMBER OF TOPSIDE ANTENNA USED, REDUCE ELECTROMAGNETIC INTERFERENCE AND REDUCE MANNING REQUIREMENTS.

DIGITAL WIDEBAND TRANSMISSION SYSTEM (DWTS) - UHF LINE-OF-SIGHT RADIO SYSTEM, SHIP-TO-SHIP AND SHIP-TO-SHORE COMMUNICATIONS REQUIRED FOR INTEROPERABILITY WITH LANDING FORCE SYSTEMS. THE CURRENT PROGRAM PROCURES DWTS FOR AMPHIBIOUS AND FLAG SHIPS ONLY. OTHER INVENTORY OBJECTIVE QUANTITIES WILL BE MET UNDER THE DMR PROGRAM.

INSTALLING AGENTS: INSTALLATION WILL BE ACCOMPLISHED BY ALTERATION INSTALLATION TEAMS (AIT) FROM SPAWAR FIELD ACTIVITIES.

UNCLASSIFIED
CLASSIFICATION

COST ANALYSIS

DATE: February 1998

B. APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

C. P-1 ITEM NOMENCLATURE
BLI: 3010 Ship Tactical Comms

SUBHEAD
52DN

COST CODE	ELEMENT OF COST	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS																
			PY		FY 1995			FY 1996			FY 1997			FY 1998			FY 1999		
			QTY	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
DN006	Production Support	A											790			189			218
DN013	HF Tilt Mechanism	A											0	15	68	1,024	18	73	1,311
DN016	HFRG Broadband 1/	A									1	2379	2,379	9	1253	11,279	13	1103	14,345
DN019	DWTS	B									2	463	926	15	366	5,485	17	387	6,587
DN776	Non-FMP Install (DWTS)	A																	193
DN777	FMP Install	A											4,268			5,376			9,758
	FMP DSA	A														361			1,985
	TOTAL CONTROLS												**8,363**			**23,714**			**34,397**

DD FORM 2446, JUN 86

P-1 SHOPPING LIST
ITEM NO. 99 PAGE NO. 2

Exhibit P-5
UNCLASSIFIED
CLASSIFICATION

1/ Quantities reflect number of hulls receiving varying configurations of HFRG installs. Varying units costs reflects varying quantities for varying hulls.

PROCUREMENT HISTORY AND PLANNING

A. DATE February 1998

B. APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

C. P-1 ITEM NOMENCLATURE
BLI: 3010 Ship Tactical Comms

SUBHEAD 52DN

COST CODE	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
DN013	HF Tilt Mechanism	98	TBD	FFP	SPAWAR		Nov-97	Nov-98	15	68.3	YES	NO
		99	TBD	FFP	SPAWAR		Nov-98	Nov-99	18	72.8	YES	NO
DN016	HFRG Broadband 1/	97	HARRIS	FFP/O	SPAWAR	Nov-92	May-97	May-98	1	2379.0	YES	NO
		98	TBD	FFP/O	SPAWAR	Nov-97	Mar-98	Mar-99	9	1253.2	YES	NO
		99	TBD	FFP/O	SPAWAR	Nov-97	Nov-98	Nov-99	13	1103.5	YES	NO
DN019	DWTS	97	TBD	IDIQ	NISE/E	Apr-93	Oct-97	Aug-98	2	463.0	YES	NO
		98	TBD	IDIQ	NISE/E	Apr-93	Jan-98	Nov-98	15	365.7	YES	NO
		99	TBD	IDIQ	NISE/E	Apr-93	Jan-99	Nov-99	17	387.5	YES	NO

D. REMARKS

1/ Quantities reflect number of hulls receiving varying configurations of HFRG installs. Varying unit costs reflects varying quantities for varying hulls.

Feb-98

MODIFICATION TITLE: HF TILT MECHANISMS (DN013)
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: Installed on ships to allow vertical whip antennas to be lowered to a horizontal position during flight operations

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Non-Developmental Items
FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																							*	
PROCUREMENT:	139	6.4	16	0.5					15	1.0	18	1.3	18	1.4	19	1.5	33	2.6	39	3.1	303	24.3	600	42.1
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment																								
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	63	5.1	92	7.8	0	0.0	0	0.0	0	0.0	15	1.2	18	1.2	18	1.1	19	1.4	33	2.6	342	27.8	600	48.1
PRIOR YR EQUIP	63	5.1	76	6.5																			139	11.6
FY 95 EQUIP			16	1.3																			16	1.3
FY 96 EQUIP																								0.0
FY 97 EQUIP																								0.0
FY 98 EQUIP											15	1.2											15	1.2
FY 99 EQUIP													18	1.2									18	1.2
FY 00 EQUIP															18	1.1							18	1.1
FY 01 EQUIP																	19	1.4					19	1.4
FY 02 EQUIP																			33	2.6			33	2.6
FY 03 EQUIP																					39	3.2	39	3.2
FY TC EQUIP																					303	24.6	303	24.6
TOTAL INSTALLATION COST	63	5.1	92	7.8	0	0.0	0	0.0	0	0.0	15	1.2	18	1.2	18	1.1	19	1.4	33	2.6	342	27.8	600	48.1
TOTAL PROCUREMENT COST		11.5		8.3		0.0		0.0		1.0		2.5		2.6		2.6		4.0		5.7		52.1	600.0	90.2

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 mo PROCUREMENT LEADTIME: 12 mo

CONTRACT DATES: FY 1996: FY 1997: FY 1998: Nov-97 FY 1999: Nov-98

DELIVERY DATES: FY 1996: FY 1997: FY 1998: Nov-98 FY 1999: Nov-99

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	155									4	6	5	
OUTPUT	155										4	6	5

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT	4	6	5	3	4	5	5	4	4	6	5	4	9	8	8	8	342	600
OUTPUT	4	6	5	3	4	5	5	4	4	6	5	4	9	8	8	8	342	600

* Reflects Total Inventory Objective

P-1 SHOPPING LIST
ITEM NO. 99 **PAGE NO. 4**

Feb-98

MODIFICATION TITLE: HIGH FREQUENCY RADIO GROUP (DN016) ***1/***
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: Provides for fully automated operation of the High Frequency Communications System

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Non-Developmental Items
FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:	29	23.0					1	2.4	9	11.3	13	14.3	12	16.7	19	18.6	11	20.0	15	23.0	165	175.0	274	304.3
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment																								
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	21	26.0	6	6.0	0	0.0	0	0.0	3	4.5	9	7.3	13	7.8	12	8.0	19	9.2	11	11.2	180	87.4	274	167.4
PRIOR YR EQUIP	21	26.0	6	6.0					2	2.3													29	34.3
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP									1	2.2													1	2.2
FY 98 EQUIP											9	7.3											9	7.3
FY 99 EQUIP													13	7.8									13	7.8
FY 00 EQUIP															12	8.0							12	8.0
FY 01 EQUIP																	19	9.2					19	9.2
FY 02 EQUIP																			11	11.2			11	11.2
FY 03 EQUIP																					15	8.0	15	0.0
FY TC EQUIP																					165	79.4	165	79.4
TOTAL INSTALLATION COST		26.0		6.0		0.0		0.0		4.5		7.3		7.8		8.0		9.2		11.2		87.4	274	167.4
TOTAL PROCUREMENT COST		49.0		6.0		0.0		2.4		15.8		21.6		24.5		26.6		29.2		34.2		262.4	274	471.7

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PROCUREMENT LEADTIME:

CONTRACT DATES: FY 1996: FY 1997: May-97 FY 1998: Mar-98 FY 1999: Nov-98

DELIVERY DATES: FY 1996: FY 1997: May-98 FY 1998: Mar-99 FY 1999: Nov-99

INSTALLATION SCHEDULE:	PY	FY 97				FY 98				FY 99			
		1	2	3	4	1	2	3	4	1	2	3	4
INPUT	27							1	2			4	5
OUTPUT	27								1	2			4

INSTALLATION SCHEDULE:	FY 00				FY 01				FY 02				FY 03				TC	TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
INPUT	2	4	4	3	2	4	3	3	3	6	5	5	2	3	3	3	180	274
OUTPUT	5	2	4	4	3	2	4	3	3	3	6	5	5	2	3	3	183	274

P-1 SHOPPING LIST
ITEM NO. PAGE NO.
99 5

P-3A Exhibit

1/ Quantities reflect number of hulls receiving varying configurations of HFRG installs. Varying unit costs reflects varying quantities for varying hulls.

MODIFICATION TITLE: DWTS (DN019)
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: UHF line of sight radio system, ship to ship and ship to shore communications

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Non-Developmental Items
FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																							*	
PROCUREMENT:							2	0.9	15	5.5	17	6.6	10	4.1	1	0.6	4	1.6	4	1.9	52	22.9	105	44.9
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment																								
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	2	0.8	15	1.4	17	1.2	10	1.0	1	0.1	4	0.3	56	5.5	105	10.27
PRIOR YR EQUIP																								
FY 95 EQUIP																								
FY 96 EQUIP																								
FY 97 EQUIP									2	0.8													2	0.8
FY 98 EQUIP											15	1.4											15	1.37
FY 99 EQUIP													17	1.2									17	1.2
FY 00 EQUIP															10	1.0							10	1
FY 01 EQUIP																	1	0.1					1	0.1
FY 02 EQUIP																			4	0.3			4	0.3
FY 03 EQUIP																					4	0.4	4	0.4
FY TC EQUIP																					52	5.1	52	5.1
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.8		1.4		1.2		1.0		0.1		0.3		5.5	105	10.3
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.9		6.3		8.0		5.3		1.6		1.7		2.2		28.4		55.2

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 mo PROCUREMENT LEADTIME: 6 mo

CONTRACT DATES: FY 1996: FY 1997: Oct-97 FY 1998: Jan-98 FY 1999: Jan-99

DELIVERY DATES: FY 1996: FY 1997: Aug-98 FY 1998: Nov-98 FY 1999: Nov-99

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT									2	3	4	4	4
OUTPUT									2	3	4	4	4

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT	4	4	5	4	3	3	2	2		1			1	1	1	1	56	105
OUTPUT	4	4	5	4	3	3	2	2		1			1	1	1	1	56	105

* Reflects Total Inventory Objective

UNCLASSIFIED

CLASSIFICATION

PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE: February 1998

APPROPRIATION/BUDGET ACTIVITY: OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE: BLI: 3010

SUBHEAD NO.: 52DN

COST CODE	ITEM/MANUFACTURER	FY	SERV	PROC QTY	ACCEP PRIOR TO 30-Sep	BAL DUE AS OF 30-Sep	PY OCT	PY NOV	PY DEC	FISCAL YEAR 96 CALENDAR YEAR 96 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	FISCAL YEAR 97 CALENDAR YEAR 97 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	FISCAL YEAR 98 CALENDAR YEAR 98 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DN013	HF Tilt Mechanism	98	15																													A												
		99	18																																									
DN016	HFRG BROADBAND	97	1																							A													1				
		98	9																																	A								
		99	13																																									
DN019	DWTS	97	2																												A											2	
		98	15																															A										
		99	17																																									
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure
DWTS	TBD									

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST

ITEM NO. 99 PAGE NO. 7

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CLASSIFICATION

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PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE
February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
BLI: 3010

SUBHEAD NO.
52DN

COST CODE	ITEM/MANUFACTURER/ PROCUREMENTY YEAR	FISCAL YEAR	CARRY OVER	FISCAL YEAR 99												FISCAL YEAR 00												FISCAL YEAR 01												LATER
				CY98			CALENDAR YEAR 99											CALENDAR YEAR 00												CALENDAR YEAR 01										
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
DN013	HF Tilt Mechanism	98	15		5	5	5																																	
		99	18		A												5	5	4	4																				
DN016	HFRG BROADBAND	97																																						
		98	9						6	3																														
		99	13		A												2	2	2	2	2	2	1																	
DN019	DWTS	97																																						
		98	15		3	3	3	3	3																															
		99	17				A										3	3	3	3	3	2																		
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST

ITEM NO.	PAGE NO.
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CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
BLI: 3033 Portable Radios

SUBHEAD
52T7

	PY			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TO COMP	TOTAL
QUANTITY												
COST (in millions)	**$85.7**			**$1.4**	**$2.3**	**$10.9**	**$11.8**	**$12.3**	**$12.6**	**$12.8**	**Cont.**	**$151.6**

PROGRAM COVERAGE:

Funds procure portable and mobile radios to support the unique air, sea, and land environment of the Navy Explosive Ordnance Disposal Units, Construction Battalions, Naval Beach Groups, Tactical Air Control Units, Naval Special Warfare Units, and Shipboard requirments defined by OPNAVINST C2300.44F.

Requirements include:
a. Units that include High Frequency Single Sideband (HF SSB) radios from 10 watt portable versions to 125 watt vehicle and base units. These radios are used where communications beyond line of sight is required.
b. Very High Frequency (VHF) and Ultra High Frequency (UHF) amplitude modulated units for ground to air communications.
c. SINCGARS VHF FM units, both manpack and vehicular for anti-jam communications.
d. Emergency lifeboat radios.
e. Survival ground to air radios.
f. Portable DAMA satellite radios.
g. Digital Video Imaging Transmission systems.

Hierarchical Yet Dynamic Reprogrammable Architecture (HYDRA) AN/SRC-55 will replace all stovepipe wireless shipboard systems (DCWIFCOM, MOMCOM, PVPCS, FDCS) with an integrated system on all ship classes. HYDRA is a wireless digital voice and data communications system using COTS trunking technology. HYDRA is capable of interfacing with PBX/BG Cellular/RF systems.

A total of 23 full units and 2 upgrades are required through FY 03 with the first upgrade for the LPD 15 being procured in FY 98. Unit costs vary with the ship type and are based on the number of channels and radios in the system. Unit costs range from $1340K for L Class ships to $2700K for carriers. Each system requires a 4-month lead time to be built and delivered. Each installation is based on ship availability.

Note: Budget reflects the transfer of design services into the appropriate equipment P-1 line item beginning in FY 1998.

UNCLASSIFIED
CLASSIFICATION

COST ANALYSIS

DATE: February-98

B. APPROPRIATION/BUDGET ACTIVITY: OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BLI: 3033 Portable Radios

SUBHEAD: 52T7

COST CODE	ELEMENT OF COST	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS																
			PY		FY 1995			FY 1996			FY 1997			FY 1998			FY 1999		
			QTY	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
T7003	RF-5000 Series	A									19	38.5	731	4	43.0	172	4	42.3	169
T7005	AN/PRC-113 or Equivalent	A																	
T7016	SINCGARS Manpack	A									8	8.6	69	8	14.3	114			
T7029	SINCGARS Vehicle	A									12	21.8	262	11	23.0	253			
T7039	CSEL	A												66	5.0	330	383	5.0	1,907
T7040	AN/PSC-5 or Equivalent	A												2	26.0	52			
T7041	DVITS (Portable)	A												3	68.3	205			
T7045	Production Support	A											296			200			197
T7046	HYDRA	A												1	807.0	807	4	1811.8	7,247
T7777	FMP Installation	A														100			1,196
	FMP DSA	A														87			197
	Various 1/																		
	TOTAL												**1,358**			**2,320**			**10,913**

DD FORM 2446, JUN 86

Exhibit P-5

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1/ The amount identified against this cost element reflects total prior year funding associated with cost elements no longer financed in FY 1995 and beyond.

PROCUREMENT HISTORY AND PLANNING

February-98

B. APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

C. P-1 ITEM NOMENCLATURE
BLI: 3033 Portable Radios

SUBHEAD
52T7

COST CODE	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
T7003	* RF-5000 Series	97	Harris: Rochester, NY	C/FP	NAWC-AD: St. Indigoes, MD	Jan-96	Jun-97	Oct-97	19	38,474	Yes	N/A
		98	Harris: Rochester, NY	C/FP-O	NAWC-AD: St. Indigoes, MD	Jan-96	Mar-98	Jul-98	4	43,000	Yes	N/A
		99	Harris: Rochester, NY	C/FP-O	NAWC-AD: St. Indigoes, MD	Jan-96	Mar-99	Jul-99	4	42,250	Yes	N/A
T7016	* SINCGARS Manpack	97	ITT: Ft. Wayne, IN	C/TBD-O	CECOM: Ft. Monmouth, NJ	Jan-97	Jun-97	Jun-98	8	8,625	Yes	N/A
		98	ITT: Ft. Wayne, IN	C/TBD	CECOM: Ft. Monmouth, NJ	Jan-98	Mar-98	Jun-99	8	14,250	Yes	N/A
T7029	SINCGARS Vehicle	97	ITT: Ft. Wayne, IN	C/TBD-O	CECOM: Ft. Monmouth, NJ	Jan-97	Jun-97	Jun-98	12	21,833	Yes	N/A
		98	ITT: Ft. Wayne, IN	C/TBD-O	CECOM: Ft. Monmouth, NJ	Jan-98	Mar-98	Jun-99	11	23,000	Yes	N/A
T7039	CSEL	98	Boeing	WX/FP	USAF-SMC/CZ	Dec-96	Mar-98	Jun-98	66	5,000	Yes	N/A
		99	Boeing	WX/FP-O	USAF-SMC/CZ	Dec-96	Mar-99	Jun-99	383	4,979	Yes	N/A
T7040	AN/PSC-5 or Equivalent	98	Magnavox: Ft. Wayne, IN	C/FP-O	CECOM: Ft. Monmouth, NJ	Jan-94	Jan-98	Nov-98	2	26,000	Yes	N/A
T7041	DVITS (Portable)	98	Harris: Rochester, NY	SS/TBD	NAWC-AD: St. Indigoes, MD	Oct-97	Jan-98	Jun-98	3	68,333	Yes	N/A
T7046	** HYDRA-Amphibs (Upgrade)	98	TBD	C/FP	NISE East: Charleston, SC	Jul-97	Dec-97	Mar-98	1	807,000	Yes	N/A
	HYDRA-Amphibs (Upgrade)	99	TBD	C/FP	NISE East: Charleston, SC	Jul-97	Dec-98	Apr-99	1	266,000	Yes	N/A
	HYDRA (Amphibs)	99	TBD	C/FP	NISE East: Charleston, SC	Jul-97	Dec-98	May-99	1	1,393,000	Yes	N/A
	HYDRA (Carriers)	99	TBD	C/FP	NISE East: Charleston, SC	Jul-97	Dec-98	Jun-99	2	2,808,000	Yes	N/A

REMARKS

* Unit cost varies depending on the configuration of the radio procured.

** Includes hardware procurement and production support.

Feb-98

MODIFICATION TITLE: HYDRA (AN/SRC55(V)) (T7046)
MODELS OF SYSTEMS AFFECTED: PVPCS/DCWF COM/MOMCOM/21MC
DESCRIPTION/JUSTIFICATION: HYDRA is designed to resolve critical deficiencies by providing essential sailor to sailor communications for coordination of crew activities during helo deck evolutions, damage control, and security operations, and general service activities.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment	0	0.0	0	0.0	0	0.0	0	0.0	1	0.8	4	7.2	4	8.5	4	9.0	4	8.9	7	9.8	Cont.		24 *	8.1
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	3	1.4	5	1.7	4	1.7	4	1.7	7	1.7			24	8.3
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP																							0	0.0
FY 98 EQUIP									1	0.2													1	0.2
FY 99 EQUIP											3	1.4	1	0.2									4	1.6
FY 00 EQUIP													4	1.5									4	1.5
FY 01 EQUIP															4	1.7							4	1.7
FY 02 EQUIP																	4	1.7					4	1.7
FY 03 EQUIP																			7	1.7			7	1.7
FY TC EQUIP																								0.0
TOTAL INSTALLATION COST	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	3	1.4	5	1.7	4	1.7	4	1.7	7	1.7			24	8.3
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.0		1.0		8.6		10.2		10.7		10.6		10.6				16.4

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 4 months PROCUREMENT LEADTIME: 3-4 months

CONTRACT DATES: FY 1996: FY 1997: FY 1998: Dec-97 FY 1999: Dec-98

DELIVERY DATES: FY 1996: FY 1997: FY 1998: Mar-98 FY 1999: Apr-99

INSTALLATION SCHEDULE:	PY	FY 97				FY 98				FY 99			
		1	2	3	4	1	2	3	4	1	2	3	4
INPUT								1				3	
OUTPUT									1				3

INSTALLATION SCHEDULE:	FY 00				FY 01				FY 02				FY 03				TC	TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
INPUT	1		4				4				4				7		Cont.	24
OUTPUT		1		4				4				4				7	Cont.	24

* Meets inventory objective.

P-1 SHOPPING LIST

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CLASSIFICATION

PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE
February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
BLI: 3033 Portable Radios

SUBHEAD NO.
52T7

COST CODE	ITEM/MANUFACTURER	FY	SERV	PROC QTY	ACCEP PRIOR TO 1-Oct	BAL DUE AS OF 1-Oct	FISCAL YEAR 96												FISCAL YEAR 97												FISCAL YEAR 98										
							PY			CALENDAR YEAR 96									CALENDAR YEAR 97												CALENDAR YEAR 98										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
T7003	RF-5000 Series	97		19		19																					A				10	9									
		98		4		4																														A				4		
		99		4		4																																			
T7016	SINCGARS Manpack	97		8		8																					A												8			
		98		8		8																														A						
T7029	SINCGARS Vehicle	97		12		12																					A												12			
		98		11		11																														A						
T7039	CSEL	98		66		66																														A			66			
		99		383		383																																				
T7040	AN/PSC-5 or Equivalent	98		2		2																												A								
T7041	DVITS (Portable)	98		3		3																												A					3			
T7046	HYDRA	98		1		1																											A			1						
		99		4		4																																				
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST
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UNCLASSIFIED
CLASSIFICATION

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CLASSIFICATION

PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE
February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
BLI: 3033 Portable Radios

SUBHEAD NO.
52T7

COST CODE	ITEM/MANUFACTURER/ PROCUREMENTY YEAR	FISCAL YEAR	CARRY OVER	FISCAL YEAR 99												FISCAL YEAR 00												FISCAL YEAR 01												LATER
				CY98			CALENDAR YEAR 99												CALENDAR YEAR 00												CALENDAR YEAR 01								
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
T7003	RF-5000 Series	97																																						
		98																																						
		99	4						A				4																											
T7016	SINCGARS Manpack	97																																						
		98	8									8																												
T7029	SINCGARS Vehicle	97																																						
		98	11									11																												
T7039	CSEL	98																																						
		99	383						A			100	100	100	83																									
T7040	AN/PSC-5 or Equivalent	98	2		2																																			
T7041	DVITS (Portable)	98																																						
T7046	HYDRA	98																																						
		99	4			A				1	1	2																												

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST
ITEM NO. 100 PAGE NO. 6

UNCLASSIFIED
CLASSIFICATION

CLASSIFICATION: **UNCLASSIFIED**

Exhibit P-20, Requirements Study	**APPROPRIATION/BUDGET ACTIVITY** OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	**DATE** February 1998

P-1 ITEM NOMENCLATURE **RF-5000 Series (T7003)**	Admin Leadtime (after Oct1): **6-9 months**	Production Leadtime: **4 months**

	PY	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	TOTAL
Buy Summary		1	26	19	4	4	18	14	0	0	Cont.	86
Unit Cost		400,000	35,385	38,474	43,000	42,250	42,833	42,857				43,756 *
Total Cost		400,000	920,000	731,000	172,000	169,000	771,000	600,000	0	0	Cont.	3,763,000
Asset Dynamics												
Beginning Asset Position		0	0	1	1	50	54	72	86	86	86	86
Deliveries from all prior year funding		0	1	0	26	0	0	0	0	0	0	27
Deliveries from FY 1997 funding		0	0	0	19	0	0	0	0	0	0	19
Deliveries from FY 1998 funding		0	0	0	4	0	0	0	0	0	0	4
Deliveries from FY 1999 funding		0	0	0	0	4	0	0	0	0	0	4
Deliveries from subsequent years' funding		0	0	0	0	0	18	14	0	0	0	32
Other Gains		0	0	0	0	0	0	0	0	0	0	0
Combat Losses/Usage		0	0	0	0	0	0	0	0	0	0	0
Training Losses/Usage		0	0	0	0	0	0	0	0	0	0	0
Test Losses/Usage		0	0	0	0	0	0	0	0	0	0	0
Other Losses/Usage		0	0	0	0	0	0	0	0	0	0	0
Disposals/Retirements/Attritions/etc.		0	0	0	0	0	0	0	0	0	0	0
End of Year Asset Position		0	1	1	50	54	72	86	86	86	86	86
Inventory Objective or Current Authorized Allowance												

Inventory Objective	Actual Training Expenditures	Other than Training Usage
Assets Rqd For Combat Loads:	FY 1995 thru 2003:	FY 1995 thru 2003:
WRM Rqmt:	FY 1995:	FY 1995
Pipeline:	FY 1994:	FY 1994
Other:	FY 1993:	FY 1993
TOTAL:		

Remarks:

* Average Unit Cost

CLASSIFICATION: **UNCLASSIFIED**

Exhibit P-20, Requirements Study	**APPROPRIATION/BUDGET ACTIVITY** OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	**DATE** February 1998

P-1 ITEM NOMENCLATURE	Admin Leadtime (after Oct1):	Production Leadtime:
SINCGARS Manpack (T7016)	**6-9 months**	**9 months - 1 year**

	PY	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	TOTAL
Buy Summary		21	6	8	8	0	0	0	75	36	Cont.	154
Unit Cost		9,000	8,667	8,625	14,250				18,947	18,944		16,396 *
Total Cost		189,000	52,000	69,000	114,000	0	0	0	1,421,000	682,000	Cont.	2,527,000
Asset Dynamics												
Beginning Asset Position		0	0	21	27	35	43	43	43	43	118	154
Deliveries from all prior year funding		0	21	6	0	0	0	0	0	0	0	27
Deliveries from FY 1997 funding		0	0	0	8	0	0	0	0	0	0	8
Deliveries from FY 1998 funding		0	0	0	0	8	0	0	0	0	0	8
Deliveries from FY 1999 funding		0	0	0	0	0	0	0	0	0	0	0
Deliveries from subsequent years' funding		0	0	0	0	0	0	0	0	75	36	111
Other Gains		0	0	0	0	0	0	0	0	0	0	0
Combat Losses/Usage		0	0	0	0	0	0	0	0	0	0	0
Training Losses/Usage		0	0	0	0	0	0	0	0	0	0	0
Test Losses/Usage		0	0	0	0	0	0	0	0	0	0	0
Other Losses/Usage		0	0	0	0	0	0	0	0	0	0	0
Disposals/Retirements/Attritions/etc.		0	0	0	0	0	0	0	0	0	0	0
End of Year Asset Position		0	21	27	35	43	43	43	43	118	154	154
Inventory Objective or Current Authorized Allowance												

Inventory Objective	Actual Training Expenditures	Other than Training Usage
Assets Rqd For Combat Loads:	FY 1995 thru 2003:	FY 1995 thru 2003:
WRM Rqmt:	FY 1995:	FY 1995
Pipeline:	FY 1994:	FY 1994
Other:	FY 1993:	FY 1993
TOTAL:		

Remarks:

* Average Unit Cost

CLASSIFICATION: **UNCLASSIFIED**

Exhibit P-20, Requirements Study	**APPROPRIATION/BUDGET ACTIVITY** OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	**DATE** February 1998

P-1 ITEM NOMENCLATURE	Admin Leadtime (after Oct1):	Production Leadtime:
SINCGARS Vehicle (T7029)	**6-9 months**	**9 months - 1 year**

	PY	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	TOTAL
Buy Summary		0	12	12	11	0	0	3	27	37	Cont.	102
Unit Cost			20,583	21,833	23,000			22,667	22,926	22,919		22,462 *
Total Cost		0	247,000	262,000	253,000	0	0	68,000	619,000	848,000	Cont.	2,297,000
Asset Dynamics												
Beginning Asset Position		0	0	0	12	24	35	35	35	38	65	102
Deliveries from all prior year funding		0	0	12	0	0	0	0	0	0	0	12
Deliveries from FY 1997 funding		0	0	0	12	0	0	0	0	0	0	12
Deliveries from FY 1998 funding		0	0	0	0	11	0	0	0	0	0	11
Deliveries from FY 1999 funding		0	0	0	0	0	0	0	0	0	0	0
Deliveries from subsequent years' funding		0	0	0	0	0	0	0	3	27	37	67
Other Gains		0	0	0	0	0	0	0	0	0	0	0
Combat Losses/Usage		0	0	0	0	0	0	0	0	0	0	0
Training Losses/Usage		0	0	0	0	0	0	0	0	0	0	0
Test Losses/Usage		0	0	0	0	0	0	0	0	0	0	0
Other Losses/Usage		0	0	0	0	0	0	0	0	0	0	0
Disposals/Retirements/Attritions/etc.		0	0	0	0	0	0	0	0	0	0	0
End of Year Asset Position		0	0	12	24	35	35	35	38	65	102	102
Inventory Objective or Current Authorized Allowance												

Inventory Objective	Actual Training Expenditures	Other than Training Usage
Assets Rqd For Combat Loads:	FY 1995 thru 2003:	FY 1995 thru 2003:
WRM Rqmt:	FY 1995:	FY 1995
Pipeline:	FY 1994:	FY 1994
Other:	FY 1993:	FY 1993
TOTAL:		

Remarks:
* Average Unit Cost

CLASSIFICATION: **UNCLASSIFIED**

Exhibit P-20, Requirements Study	**APPROPRIATION/BUDGET ACTIVITY** OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	**DATE** February 1998

P-1 ITEM NOMENCLATURE **CSEL (T7039)**	Admin Leadtime (after Oct1): **6 months**	Production Leadtime: **3 months**

	PY	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	TOTAL
Buy Summary		100	0	0	66	383	183	225	0	0	Cont.	957
Unit Cost		5,800			5,000	4,979	4,984	4,982				5,068 *
Total Cost		580,000	0	0	330,000	1,907,000	912,000	1,121,000	0	0	Cont.	4,850,000
Asset Dynamics												
Beginning Asset Position												
Deliveries from all prior year funding		0	100	100	100	166	549	732	957	957	957	957
Deliveries from FY 1997 funding		0	0	0	0	0	0	0	0	0	0	0
Deliveries from FY 1998 funding		0	0	0	66	0	0	0	0	0	0	66
Deliveries from FY 1999 funding		0	0	0	0	383	0	0	0	0	0	383
Deliveries from subsequent years' funding		0	0	0	0	0	183	225	0	0	0	408
Other Gains		0	0	0	0	0	0	0	0	0	0	0
Combat Losses/Usage		0	0	0	0	0	0	0	0	0	0	0
Training Losses/Usage		0	0	0	0	0	0	0	0	0	0	0
Test Losses/Usage		0	0	0	0	0	0	0	0	0	0	0
Other Losses/Usage		0	0	0	0	0	0	0	0	0	0	0
Disposals/Retirements/Attritions/etc.		0	0	0	0	0	0	0	0	0	0	0
End of Year Asset Position		0	100	100	166	549	732	957	957	957	957	957
Inventory Objective or Current Authorized Allowance												

Inventory Objective	Actual Training Expenditures	Other than Training Usage
Assets Rqd For Combat Loads:	FY 1995 thru 2003:	FY 1995 thru 2003:
WRM Rqmt:	FY 1995:	FY 1995
Pipeline:	FY 1994:	FY 1994
Other:	FY 1993:	FY 1993
TOTAL:		

Remarks:
* Average Unit Cost

CLASSIFICATION: **UNCLASSIFIED**

Exhibit P-20, Requirements Study	**APPROPRIATION/BUDGET ACTIVITY** OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	**DATE** February 1998

P-1 ITEM NOMENCLATURE	Admin Leadtime (after Oct1):	Production Leadtime:
AN/PSC-5 or Equivalent (T7040)	**4 months**	**10 months**

	PY	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	TOTAL
Buy Summary		28	0	0	2	0	0	0	7	3	Cont.	40
Unit Cost		29,536			26,000				26,000	26,000		28475 *
Total Cost		827,000	0	0	52,000	0	0	0	0	182,000	7,800	1,139,000
Asset Dynamics												
Beginning Asset Position		0	0	28	28	28	30	30	30	30	37	40
Deliveries from all prior year funding		0	28	0	0	0	0	0	0	0	0	28
Deliveries from FY 1997 funding		0	0	0	0	0	0	0	0	0	0	0
Deliveries from FY 1998 funding		0	0	0	0	2	0	0	0	0	0	2
Deliveries from FY 1999 funding		0	0	0	0	0	0	0	0	0	0	0
Deliveries from subsequent years' funding		0	0	0	0	0	0	0	0	7	3	10
Other Gains		0	0	0	0	0	0	0	0	0	0	0
Combat Losses/Usage		0	0	0	0	0	0	0	0	0	0	0
Training Losses/Usage		0	0	0	0	0	0	0	0	0	0	0
Test Losses/Usage		0	0	0	0	0	0	0	0	0	0	0
Other Losses/Usage		0	0	0	0	0	0	0	0	0	0	0
Disposals/Retirements/Attritions/etc.		0	0	0	0	0	0	0	0	0	0	0
End of Year Asset Position		0	28	28	28	30	30	30	30	37	40	40
Inventory Objective or Current Authorized Allowance												

Inventory Objective	Actual Training Expenditures	Other than Training Usage
Assets Rqd For Combat Loads:	FY 1995 thru 2003:	FY 1995 thru 2003:
WRM Rqmt:	FY 1995:	FY 1995
Pipeline:	FY 1994:	FY 1994
Other:	FY 1993:	FY 1993
TOTAL:		

Remarks:
* Average Unit Cost

CLASSIFICATION: **UNCLASSIFIED**

Exhibit P-20, Requirements Study	**APPROPRIATION/BUDGET ACTIVITY** OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	**DATE** February 1998

P-1 ITEM NOMENCLATURE	Admin Leadtime (after Oct1):	Production Leadtime:
DVITS (Portable) (T7041)	**4 months**	**6 months**

	PY	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	TOTAL
Buy Summary		0	0	0	3	0	0	0	0	0	Cont.	3
Unit Cost					68,333							68,333 *
Total Cost		0	0	0	205,000	0	0	0	0	0	Cont.	205,000
Asset Dynamics												
Beginning Asset Position		0	0	0	0	0	3	3	3	3	3	3
Deliveries from all prior year funding		0	0	0	0	0	0	0	0	0	0	0
Deliveries from FY 1997 funding		0	0	0	0	0	0	0	0	0	0	0
Deliveries from FY 1998 funding		0	0	0	0	3	0	0	0	0	0	3
Deliveries from FY 1999 funding		0	0	0	0	0	0	0	0	0	0	0
Deliveries from subsequent years' funding		0	0	0	0	0	0	0	0	0	0	0
Other Gains		0	0	0	0	0	0	0	0	0	0	0
Combat Losses/Usage		0	0	0	0	0	0	0	0	0	0	0
Training Losses/Usage		0	0	0	0	0	0	0	0	0	0	0
Test Losses/Usage		0	0	0	0	0	0	0	0	0	0	0
Other Losses/Usage		0	0	0	0	0	0	0	0	0	0	0
Disposals/Retirements/Attritions/etc.		0	0	0	0	0	0	0	0	0	0	0
End of Year Asset Position		0	0	0	0	3	3	3	3	3	3	3
Inventory Objective or Current Authorized Allowance												

Inventory Objective	Actual Training Expenditures
Assets Rqd For Combat Loads:	FY 1995 thru 2003:
WRM Rqmt:	FY 1995:
Pipeline:	FY 1994:
Other:	FY 1993:
TOTAL:	

Remarks:
* Average Unit Cost

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
BLI: 3040 SINCGARS

SUBHEAD
52D5

	PY	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TO COMP	TOTAL
QUANTITY												
COST (in millions)	**$20.3**			**$4.5**	**$7.2**	**$27.9**	**$0.0**	**$2.0**	**$1.5**	**$1.8**	**$6.0**	**$71.2**

PROGRAM COVERAGE: The Shipboard SINCGARS (Single Channel Ground and Airborne Radio System) provides tactical anti-jam radios to support ship-to-shore communications during amphibious operations. This program also fills the requirements for VHF ship-to-ship and ship-to-boat communications, replacing the aging AN/VRC-46 family of radios.

Systems are being procured in configurations which are specific to each ship class. This configurations consist of differing numbers of five standard subcomponents. As of FY 1998, the Navy has ended procurement of Interference Mitigation Units and Airborne Relay Systems. The SIP version of SINCGARS is to be fielded, replacing non-SIP SINCGARS which have already been partially fielded.

Standard Components:
1) Ship System (AN/SRC-54A) - A SINCGARS SIP configuration which uses a single radio in a single mount.
2) Ship System (AN/SRC-54B) - A SINCGARS SIP configuration which uses two radios in a single mount.
3) Multicoupler (TD-1456) This multicoupler is being provided to all ships to couple up to four SINCGARS radios to a single antenna; one radio can operate in anti-jam mode.
4) SINCGARS Remote Control System (OT-637A) - A device for providing remote control of radios from the command and control spaces throughout the ship.
5) Test Set (AN/GRM-122) - A test set for testing the unique components of the SINCGARS SIP frequency-hopping radio.

EXPLANATION OF PROGRAM CHANGE:

1) FY 1999 is the final year for DoD procurement of SINCGARS. The Department of the Navy (DoN) SINCGARS program is boughtout in FY 1999 to save resources by taking advantage of the higher quantities in the last year of DoD wide procurement. Substantial unit cost increases would have occurred at lower, DoN only, procurement quantities.
2) SINCGARS Remote Control Units were added to inventory objective to provide control of frequency-hopping radios from C2 spaces.
3) Implementation of the Interference Mitigation Unit has been cancelled to reduce system costs and installation delays.
4) The Airborne Relay Segment has been cancelled due to the product not being operationally suitable. The ORD requirement for this system will be addressed in the FY 2000 program: Expeditionary Battlegro OTH Communications Relay System.
5) Production Support cost code has been added to provide funding for procuring modified ILS documentation and support packages which reflect SINCGARS-SIP configurations. Additional production support funds are necessary to integrate the products of this program with other components of the JMCOMS system, such as ADNS.
6) Replacement of SINCGARS SIP for prior ship system causes modification to AN/SRC-54A and AN/SRC-54B as ship systems vice prior AN/SRC-54.

INSTALLING AGENTS: Alteration Installation Teams by all SPAWAR field activities.
RDT&E funding for SINCGARS was available in FYs 1994-1995.

COST ANALYSIS

DATE: February 1998

B. APPROPRIATION/BUDGET ACTIVITY: OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BLI: 3040 SINCGARS

SUBHEAD: 52D5

COST CODE	ELEMENT OF COST	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS																
			PY		FY 1995			FY 1996			FY 1997			FY 1998			FY 1999		
			QTY	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
D5001	Ship System (AN/SRC-54)	A																	
D5002	Relay System (AN/ARQ-53)	B																	
D5003	Training Systems	A																	
D5005	TD-1456/GRC FH Multicoupler	A									12	59	711	41	61	2,481	127	62	7,847
D5006	Interference Mitigation Device	A																	
D5007	AN/GRM-122 Radio Test Set	A									4	47	187	12	48	675	44	49	2,145
D5008	Ship System (AN/SRC-54A)										13	20	260				25	24	609
D5009	Ship System (AN/SRC-54B)										31	29	899				277	34	9,381
D5010	Remote Control System (OK-637A)										72	5	360				110	9	951
D5011	Production Support												82			1,439			2,240
D5777	FMP Installation	A											1,983			2,497			1,747
D5778	FMP Installation Forward Funding																		2,844
	FMP DSA	A														125			125
	TOTAL CONTROLS												**4,482**			**7,217**			**27,888**

PROCUREMENT HISTORY AND PLANNING

A. DATE February 1998

B. APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

C. P-1 ITEM NOMENCLATURE BLI: 3040 SINCGARS

SUBHEAD 52D5

COST CODE	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
D5005	TD-1456/GRC FHMulticoupler	97	TBD	TBD/TBD	CECOM: Ft. Monmouth, NJ	Jan-97	Mar-97	Jul-98	12	59,243	Yes	N/A
		98	TBD	TBD/TBD	CECOM: Ft. Monmouth, NJ	Jan-98	Mar-98	Jun-99	41	60,514	Yes	N/A
		99	TBD	TBD/TBD	CECOM: Ft. Monmouth, NJ	Jan-99	Mar-99	Jul-00	127	61,785	Yes	N/A
D5007	AN/GRM-122 Radio Test Set	97	TBD	TBD/TBD	CECOM: Ft. Monmouth, NJ	Jan-97	Mar-97	Jul-98	4	46,750	Yes	N/A
		98	TBD	TBD/TBD	CECOM: Ft. Monmouth, NJ	Jan-98	Mar-98	Jul-99	12	47,750	Yes	N/A
		99	TBD	TBD/TBD	CECOM: Ft. Monmouth, NJ	Jan-99	Mar-99	Jul-00	44	48,753	Yes	N/A
D5008	Ship System (AN/SRC-54A)	97	ITT	TBD/TBD	CECOM: Ft. Monmouth, NJ	Jan-97	Mar-97	Jul-98	13	20,000	Yes	N/A
		99	ITT	FFP	CECOM: Ft. Monmouth, NJ	Jan-99	Mar-99	Jul-00	25	20,420	Yes	N/A
D5009	Ship System (AN/SRC-54B)	97	ITT	TBD/TBD	CECOM: Ft. Monmouth, NJ	Jan-97	Mar-97	Jul-98	31	29,000	Yes	N/A
		99	ITT	FFP	CECOM: Ft. Monmouth, NJ	Jan-99	Mar-99	Jul-00	277	29,609	Yes	N/A
D5010	Remote Control System (OK-637A)	97	ITT	TBD/TBD	CECOM: Ft. Monmouth, NJ	Jan-97	Mar-97	Jul-98	72	50,000	Yes	N/A
		99	ITT	FFP	CECOM: Ft. Monmouth, NJ	Jan-99	Mar-99	Jul-00	110	51,050	Yes	N/A

D. REMARKS

* Unit cost varies depending on the configuration of the radio procured. A new contract will be used in FY 99.

UNCLASSIFIED

Feb-98

MODIFICATION TITLE: SINCGARS Ship System AN/SRC-54A (D5008)
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: Provides ships engaged in amphibious operations and naval gunfire support missions the capability to communicate with ground forces in a VHF-FM anti-jam mode.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity	0	0.0	40	0.9	0	0.0	13	0.3	0	0.0	25	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	78 *	1.7
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment																								
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*			0	0.00	0	0.00	0	0.00	2	0.03	4	0.12	5	0.22	1	0.02	1	0.02	0	0.00	65	0.97	78	1.37
PRIOR YR EQUIP																							0	0.00
FY 95 EQUIP									2	0.03	4	0.12	5	0.22	1	0.02	1	0.02			27	0.40	40	0.80
FY 96 EQUIP																							0	0.00
FY 97 EQUIP																					13	0.20	13	0.20
FY 98 EQUIP																					25	0.38	25	0.38
FY 99 EQUIP																							0	0.00
FY 00 EQUIP																							0	0.00
FY 01 EQUIP																							0	0.00
FY 02 EQUIP																							0	0.00
FY 03 EQUIP																							0	0.00
FY TC EQUIP																							0	0.00
TOTAL INSTALLATION COST			0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	4.0	0.1	5.0	0.2	1.0	0.0	1.0	0.0	0.0	0.0	65.0	0.0	78.0	1.4
TOTAL PROCUREMENT COST		0.0		0.9		0.0		0.3		0.0		0.7		0.2		0.0		0.0		0.0		1.0		3.1

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 6-9 months PROCUREMENT LEADTIME: 15-18 months

CONTRACT DATES: FY 1996: N/A FY 1997: Mar-97 FY 1998: N/A FY 1999: Mar-99

DELIVERY DATES: FY 1996: N/A FY 1997: Jul-98 FY 1998: N/A FY 1999: Jul-00

INSTALLATION SCHEDULE:	PY	FY 95				FY 96				FY 97				FY 98				FY 99			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
INPUT														2				4			
OUTPUT															2				2	2	

INSTALLATION SCHEDULE:	FY 00				FY 01				FY 02				FY 03				TC	TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
INPUT	5				1				1								65	78
OUTPUT		2	1	2		1				1							65	78

* Outyear installation funding shortfalls will be addressed during POM-00.

Feb-98

MODIFICATION TITLE: SINCGARS Ship System (AN/SRC-54B) (D5009)
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: Provides ships engaged in amphibious operations and naval gunfire support missions the capability to communicate with ground forces in a VHF-FM anti-jam mode.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity	0	0.0	60	1.8	0	0.0	31	0.9	0	0.0	277	9.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	368 *	12.1
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment																								
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*				0.0	0	0.0	0	0.0	41	1.2	67	2.0	55	1.7	67	2.0	18	0.5	39	1.2	0	2.4	368	25.8
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP									41	1.2	19	0.6											60	1.8
FY 96 EQUIP																							0	0.0
FY 97 EQUIP											31	0.9											31	0.9
FY 98 EQUIP																							0	0.0
FY 99 EQUIP											17	0.5	55	1.7	67	2.0	18	0.5	39	1.2	81	2.4	277	8.3
FY 00 EQUIP																							0	0.0
FY 01 EQUIP																							0	0.0
FY 02 EQUIP																							0	0.0
FY 03 EQUIP																							0	0.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST			0.0	0.0	0.0	0.0	0.0	0.0	41.0	1.2	67.0	2.0	55.0	1.7	67.0	2.0	18.0	0.5	39.0	1.2	0.0	0.0	368.0	25.8
TOTAL PROCUREMENT COST		0.0		1.8		0.0		0.9		1.2		11.4		1.7		2.0		0.5		1.2		2.4		37.9

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 6-9 months PROCUREMENT LEADTIME: 15-18 months

CONTRACT DATES: FY 1996: FY 1997: Mar-97 FY 1998: N/A FY 1999: Mar-99

DELIVERY DATES: FY 1996: FY 1997: Jul-98 FY 1998: N/A FY 1999: Jul-00

INSTALLATION SCHEDULE:	PY	FY 95 1	FY 95 2	FY 95 3	FY 95 4	FY 96 1	FY 96 2	FY 96 3	FY 96 4	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	0													41				50		17	
OUTPUT														18	18	5		18	18	18	13

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT	55				67				18				39				81	368
OUTPUT	18	18	18	1	18	18	18	13	18				18	18	3		81	368

* Outyear installation funding shortfalls will be addressed during POM-00.

MODIFICATION TITLE: Antenna Multiplexer TD-1456 (D5005)
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: Provides ships engaged in amphibious operations and naval gunfire support missions the capability to communicate with ground forces in a VHF-FM anti-jam mode.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity	0	0.0	0	0.0	0	0.0	12	0.7	41	2.5	127	7.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	180	* 11.0
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment																								
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*				0.0	0	0.0	0	0.0	0	0.0	43	0.0	41	0.0	45	0.0	10	0.0	20	0.0	0	0.0	180	0.0
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP											12	0.0											12	0.0
FY 98 EQUIP											31	0.0	10	0.0									41	0.0
FY 99 EQUIP													31	0.0	45	0.0	10	0.0	20	0.0	21	0.0	127	0.0
FY 00 EQUIP																							0	0.0
FY 01 EQUIP																							0	0.0
FY 02 EQUIP																							0	0.0
FY 03 EQUIP																							0	0.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.0	0.0	41.0	0.0	45.0	0.0	10.0	0.0	20.0	0.0	0.0	0.0	180.0	0.0
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.7		2.5		7.8		0.0		0.0		0.0		0.0		0.0		11.0

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 6-9 months PROCUREMENT LEADTIME: 15-18 months

CONTRACT DATES: FY 1996: FY 1997: Mar-97 FY 1998: Mar-98 FY 1999: Mar-99

DELIVERY DATES: FY 1996: FY 1997: Jul-98 FY 1998: Jun-99 FY 1999: Jul-00

INSTALLATION SCHEDULE:	PY	FY 95 1	FY 95 2	FY 95 3	FY 95 4	FY 96 1	FY 96 2	FY 96 3	FY 96 4	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	0																	12		16	15
OUTPUT																		10	2	16	15

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT	10			31	45				10				20				21	180
OUTPUT	10			31	10	10	15	10	10				10	10			21	180

* Note: Installation costs are included in cost to install AN/SRC-54A/Bs
** Outyear installation funding shortfalls will be addressed during POM-00.

P-1 SHOPPING LIST
ITEM NO. 101 **PAGE NO. 6**

MODIFICATION TITLE: SINCGARS Remote Control System OK-637A (D5010)
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: Provides ships engaged in amphibious operations and naval gunfire support missions the capability to communicate with ground forces in a VHF-FM anti-jam mode.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity	0	0.0	0	0.0	0	0.0	72	0.4	0	0.0	110	1.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	182 *	1.4
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment																								
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*				0.0	0	0.0	0	0.0	15	0.0	29	0.0	23	0.0	27	0.0	7	0.0	16	0.0	65	0.0	182	0.0
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP									15	0.0	29	0.0	23	0.0	5	0.0							72	0.0
FY 98 EQUIP																							0	0.0
FY 99 EQUIP															22	0.0	7	0.0	16	0.0	65	0.0	110	0.0
FY 00 EQUIP																							0	0.0
FY 01 EQUIP																							0	0.0
FY 02 EQUIP																							0	0.0
FY 03 EQUIP																							0	0.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST			0.0	0.0	0.0	0.0	0.0	0.0	15.0	0.0	29.0	0.0	23.0	0.0	27.0	0.0	7.0	0.0	16.0	0.0	65.0	0.0	182.0	0.0
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.4		0.0		1.0		0.0		0.0		0.0		0.0		0.0		1.4

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 6-9 months PROCUREMENT LEADTIME: 15-18 months

CONTRACT DATES: FY 1996: FY 1997: Mar-97 FY 1998: N/A FY 1999: Mar-99

DELIVERY DATES: FY 1996: FY 1997: Jul-98 FY 1998: N/A FY 1999: Jul-00

INSTALLATION SCHEDULE:	PY	FY 95 1	FY 95 2	FY 95 3	FY 95 4	FY 96 1	FY 96 2	FY 96 3	FY 96 4	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	0																15	29			
OUTPUT																	7	15	7	8	7

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT	23				27				7				16				65	182
OUTPUT	7	7	7	2	7	10	10		7				8	8			65	182

* Note: Inatallation costs are included in cost to install AN/SRC-54A/Bs.
** Outyear installation funding shortfalls will be addressed during POM-00.

MODIFICATION TITLE: SINCGARS Test Set AN/GRM-122 (D5007)
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: Provides ships engaged in amphibious operations and naval gunfire support missions the capability to communicate with ground forces in a VHF-FM anti-jam mode.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity	0	0.0	0	0.0	0	0.0	4	0.2	12	0.7	44	2.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	60 *	3.1
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment																								
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*				0.0	0	0.0	0	0.0	4	0.0	12	0.0	13	0.0	11	0.0	3	0.0	6	0.0	11	0.0	60	0.0
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP									4	0.0													4	0.0
FY 98 EQUIP											12	0.0											12	0.0
FY 99 EQUIP													13	0.0	11	0.0	3	0.0	6	0.0	11	0.0	44	0.0
FY 00 EQUIP																							0	0.0
FY 01 EQUIP																							0	0.0
FY 02 EQUIP																							0	0.0
FY 03 EQUIP																							0	0.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST			0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	12.0	0.0	13.0	0.0	11.0	0.0	3.0	0.0	6.0	0.0	11.0	0.0	60.0	0.0
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.2		0.7		2.2		0.0		0.0		0.0		0.0		0.0		3.1

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 6-9 months PROCUREMENT LEADTIME: 15-18 months

CONTRACT DATES: FY 1996: FY 1997: Mar-97 FY 1998: Mar-98 FY 1999: Mar-99

DELIVERY DATES: FY 1996: FY 1997: Jul-98 FY 1998: Jul-99 FY 1999: Jul-00

INSTALLATION SCHEDULE:	PY	FY 95 1	FY 95 2	FY 95 3	FY 95 4	FY 96 1	FY 96 2	FY 96 3	FY 96 4	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	0																4				12
OUTPUT																				4	

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT				13				11				3				6	11	60
OUTPUT	12				13				11				3				17	60

* Note: Portable test equipment; very minor installation costs.
** Outyear installation funding shortfalls will be addressed during POM-00.

UNCLASSIFIED

CLASSIFICATION

PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE: February 1998

APPROPRIATION/BUDGET ACTIVITY: OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE: BLI: 3040 SINCGARS

SUBHEAD NO.: 52D5

COST CODE	ITEM/MANUFACTURER	FY	SERV	PROC QTY	ACCEP PRIOR TO 1-Oct	BAL DUE AS OF 1-Oct	FISCAL YEAR 96												FISCAL YEAR 97												FISCAL YEAR 98										
							PY			CALENDAR YEAR 96									CALENDAR YEAR 97												CALENDAR YEAR 98										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
D5005	TD-1456/GRC FH Multicoupler	97	A	12		12																		A																4	4	
		98	A	41		41																														A						
		99	A	127		127																																				
D5007	AN/GRM-122 Radio Test Set	97	A	4		4																		A																2		2
		98	A	12		12																														A						
		99	A	44		44																																				
D5008	Ship System AN/SRC-54A	97	A	13		13																		A																3	3	3
		99	A	25		25																																				
D5009	Ship System AN/SRC-54B	97	A	31		31																		A																3	3	3
		99	A	277		277																																				
D5010	Remote Control System	97	A	72		72																		A																4	4	4
		99	A	110		110																																				
	Note: SINCGARS Buyout occurs in FY 1999.																																									

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST

ITEM NO. 101 PAGE NO. 9

UNCLASSIFIED

CLASSIFICATION

UNCLASSIFIED
CLASSIFICATION

PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE: February 1998

ON/BUDGET ACTIVITY: IONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE: BLI: 3040 SINCGARS

SUBHEAD NO.: 52D5

COST CODE	ITEM/MANUFACTURER/ PROCUREMENTY YEAR	FISCAL YEAR	CARRY OVER	FISCAL YEAR 99												FISCAL YEAR 00												FISCAL YEAR 01												LATER
				CY98			CALENDAR YEAR 99											CALENDAR YEAR 00										CALENDAR YEAR 01											
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
D5005	TD-1456/GRC FH Multicoupler	97	4										4																											
		98	41									8		8	8	8	8	1																						
		99	127						A																8	8	8	8	8	8	8	8	8	8	8	8	8	8	7
D5007	AN/GRM-122 Radio Test Set	97	0																																					
		98	12										2	2	2	2	2	2																						
		99	44						A																2	2	2	2	2	2	2	2	2	2	2	2	2	2	14
D5008	Ship System AN/SRC-54A	97	4	4																																				
		99	25						A																3	3	3	3	3	3	3	3	1							
D5009	Ship System AN/SRC-54B	97	22	3	5	3	3	5	3																															
		99	277						A																2	2	2	2	2	2	2	2	3	3	4	4	4	4	4	235
D5010	Remote Control System	97	60									10	10	10	10	10	10																							
		99	110						A																3	3	3	3	3	3	3	3	3	4	2	2	2	2	2	69
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

M 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST

ITEM NO. 101 PAGE NO. 10

UNCLASSIFIED
CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET

DATE February-98

APPROPRIATION/BUDGET ACTIVITY	**P-1 ITEM NOMENCLATURE**		**SUBHEAD**
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	Program Name	BLI: 3050 SHIP COMMUNICATIONS AUTOMATION	52PQ

	PY			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TO COMP	TOTAL
QUANTITY												
COST (in millions)	**$103.1**			**$17.7**	**$29.0**	**$90.6**	**$115.0**	**$109.7**	**$105.1**	**$102.3**	**149.2**	**791.7**

Narrative Description/Justification:

PROGRAM COVERAGE: The Naval Modular Automated Communication System II (NAVMACS II) is a system based on VME architecture to automate and increase the speed and efficiency of handling tactical message traffic aboard ships. This system was developed with an open system architecture, and is conducive to technological upgrades. NAVMACS II is the Navy's host platform for tactical DMS. These systems are being procured to replace the older NAVMACS systems which lack the speed and capacity to handle current message traffic loads during periods of accelerated combat operations.

SHIPBOARD AUTOMATED COMMUNICATIONS CONTROL SYSTEM (SACCS): SACCS provides computer assisted control of shipboard RCS equipment connectivity, performance monitoring and testing. It provides the enabling mechanism for the JMCOMS Automated Digital Network System (ADNS) strategy in various ashore and afloat platforms.

HIGH SPEED FLEET BROADCAST (HSFB): Replaces current outmoded Satellite and HF Broadcast equipment with a system that allows higher transmission speeds, greater efficiency, and is more flexible.

As a direct result of the Navy's IT21 strategy, Ship Comm Auto is participating in the modification/upgrade of LAN designs that advances the technology of the existing LAN and expands the scope of LAN implementations to include both an unclassified and classified LAN. Under this strategy, Ship Comm Auto would install the modified LAN architecture in all future installations. Ship Comm Auto, with its field activities, has commenced qualification and evaluation of the Asynchronous Transfer Mode (ATM) LAN, currently as a lab mock-up, and qualification of Ship Comm Auto applications within the architecture.

Items procured under this program provide interconnectivity with the ADNS and JMCOMS architectures.

FY 1997: Procure 7 NAVMACS II systems for 1 battlegroup and 15 SACCS/ADNS Build One systems and continue procurement of HSFB.
FY 1998: Procure 10 NAVMACS II systems, 16 SACCS/ADNS Build Two systems, and complete procurement of HSFB.
FY 1999: Procure 44 Tactical DMS systems, 20 Tactical DMS Upgrade systems (backfit), 23 SACCS/ADNS Build Three varient and upgrades for 15 SACCS Build One systems to Build Three; and procure 8 classified ATM LANs for 8 ships..

INSTALLING AGENTS: Installation will be by Alteration Installation Teams (AIT) from SPAWAR field activities.

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1998

APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	BLI: 3050 SHIP COMMUNICATIONS AUTOMATION	52PQ

HARDWARE/INSTALL FUNDING PROFILE $000)

Listed below are the costs (i.e. Hardware and installation) for equipment being procured in this line item that have associated installation costs budgeted.

EQUIPMENT	FY97	FY98	FY99	FY00	FY01	FY02	FY03	TO COMP	TOTAL
NAVMACS	$5.9	$6.6	$28.3	$30.2	$18.4	$26.5	$29.3	$70.0	$215.2
SSACCS	$8.1	$20.4	$32.2	$38.3	$45.2	$42.0	$31.6	$79.2	$297.0
HSFB	$3.7	$2.0	$0.0	$0.0	$0.0	$0.0	$0.0	$.00	$5.7
ATM LAN's	$0.0	$0.0	$30.1	$46.5	$46.1	$36.6	$41.4	$0.0	$200.7
TOTAL	$17.7	$29.0	$90.6	$115.0	$109.7	$105.1	$102.3	$149.2	$718.7

COST ANALYSIS

DATE: February 1998

APPROPRIATION ACTIVITY: OP,N - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE: Program Name BLI: 3050 SHIP COMMUNICATIONS AUTOMATION

SUBHEAD: 52PQ

TOTAL COST IN THOUSANDS OF DOLLARS

COST CODE	ELEMENT OF COST	ID CODE	PY QTY	PY TOTAL COST	FY 1995 QTY	FY 1995 UNIT COST	FY 1995 TOTAL COST	FY 1996 QTY	FY 1996 UNIT COST	FY 1996 TOTAL COST	FY 1997 QTY	FY 1997 UNIT COST	FY 1997 TOTAL COST	FY 1998 QTY	FY 1998 UNIT COST	FY 1998 TOTAL COST	FY 1999 QTY	FY 1999 UNIT COST	FY 1999 TOTAL COST
PQ065	**NAVMACS**												**2,236**			**4,200**			**19,023**
	NAVMACS II	A	26								7	319	2,236	10	420	4,200			
	Tactical DMS																44	350	15,393
	Tactical DMS Upgrade																20	182	3,630
PQ069	**SACCS**												**3,886**			**15,214**			**24,847**
	SACCS	A	8																
	SACCS/ADNS Build One										15	259	3,886						
	SACCS/ADNS Build Two													16	951	15,214			
	SACCS/ADNS Build Three																23	818	18,814
	SACCS/ADNS Build One Upgrade																15	402	6,033
	SACCS/ADNS Build Two Upgrade																		
PQ071	**HSFB**	B	**1**								**22**	141	**3,098**			**473**			
PQ099	**Production Support**	A	**Var**								**Var**		**1,061**	**Var**		**1,468**	**Var**		**1,237**
	NAVMACS												377			799			837
	SACCS												98			440			400
	HSFB												586			229			0
PQ007	**ATM LANs**	A															8	2,763	**22,101**
PQ777	**FMP Install**	A									**Var**		**7,405**			**6,123**			**21,314**
	NAVMACS												3,308			1,413			7,962
	SACCS												4,097			3,415			5,331
	HSFB															1,295			
	ATM LANs																		8,021
	FMP DSA	A														**1,517**			**2,116**
	NAVMACS															142			523
	SACCS															1,375			1,593
	HSFB																		
	TOTAL PROGRAM												**17,686**			**28,995**			**90,638**

WEAPON SYSTEM PROCUREMENT HISTORY AND PLANNING

A. DATE February 1998

B. APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

C. P-1 ITEM NOMENCLATURE
Program Name BLI: 3050 SHIP COMMUNICATIONS AUTOMATION

SUBHEAD 52PQ

COST CODE	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
PQ065	NAVMACS II	97	NISE EAST	SOW	SPAWAR	Sep-96	Oct-96	Nov-96	7	$319,429	Yes	N/A
	NAVMACS II	98	NISE EAST	SOW	SPAWAR	Sep-97	Oct-97	Nov-97	10	$420,000	Yes	N/A
	Tactical DMS	99	NISE EAST	SOW	SPAWAR	Sep-98	Oct-98	Nov-98	44	$349,841	Yes	N/A
	Tactical DMS Upgrade	99	NISE EAST	SOW	SPAWAR	Sep-98	Oct-98	Nov-98	20	$181,500	Yes	N/A
PQ069	SACCS/ADNS Build One	97	NISE EAST	Option C	SPAWAR	Jul-95	Dec-96	Aug-97	15	$259,067	Yes	N/A
	SACCS/ADNS Build Two	98	NRaD	Option C	NRaD	Jul-96	Dec-97	Dec-98	16	$950,875	Yes	N/A
	SACCS/ADNS Build Three	99	NRaD	Option C	NRaD	Jun-97	Dec-98	Dec-99	23	$818,000	Yes	N/A
	SACCS/ADNS Build One Upgrade	99	NRaD	Option C	NRaD	Jul-97	Dec-98	Dec-99	15	$402,200	Yes	N/A
PQ071	HSFB	97	RJO, Lanham MD	CFFP	SPAWAR	Option 3	Dec-96	Dec-97	22	$140,818	Yes	N/A
		98*	RJO, Lanham MD	CFFP	SPAWAR	Option 4	Dec-97	Dec-98	0	N/A	Yes	N/A
PQ007	ATM LAN	99	Various	IDIQ	Navy		Nov-98	Jan-99	8	$2,762,625	N/A	

D. REMARKS

PQ065 - FY98 unit cost increase due to flag ship configurations, complete LAN outfitting and procurement of technical training equipment. Unit cost is affected by the purchases of NAVMACS systems and Tactical DMS systems for backfit on ships with NAVMACS already installed.

*Note: FY98 procurement required to complete installation of 22 units procured in FY97. The FY98 procurement is required to obtain low noise amplifiers. Totals reflect final inventory objective.

Feb-98

MODIFICATION TITLE: NAVAL MODULAR AUTOMATED COMMUNICATIONS SYSTEM II (NAVMACS II) (PQ065)
MODELS OF SYSTEMS AFFECTED: NAVMACS II
DESCRIPTION/JUSTIFICATION: The Naval Modular Automated Communications System (NAVMACS II) will automate and increase the speed and efficiency of handling message traffic aboard ships.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity	16	10.2	17	10.7			7	2.2	10	4.2													50 *	27.3
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment																								
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment	10	7.7																					10	7.7
Support Equipment																								
Other																								
Interim Contractor Support																								
Installation of Hardware*	0	0.0	38	5.3	0	0.0	12	3.3	10	1.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	60	10.0
PRIOR YR EQUIP			26	3.6																			26	3.6
FY 95 EQUIP			12	1.7			5	1.4															17	3.1
FY 96 EQUIP																							0	0.0
FY 97 EQUIP							7	2.0															7	2.0
FY 98 EQUIP									10	1.4													10	1.4
FY 99 EQUIP																							0	0.0
FY 00 EQUIP																							0	0.0
FY 01 EQUIP																							0	0.0
FY 02 EQUIP																							0	0.0
FY 03 EQUIP																							0	0.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		5.3		0.0		3.3		1.4		0.0		0.0		0.0		0.0		0.0		0.0		10.0
TOTAL PROCUREMENT COST		17.9		16.0		0.0		5.5		5.6		0.0		0.0		0.0		0.0		0.0		0.0		45.1

METHOD OF IMPLEMENTATION: AIT ADMINISTRATIVE LEADTIME: PROCUREMENT LEADTIME: 1 Mo.

CONTRACT DATES: FY 1997: Oct-96 FY 1998: Oct-97 FY 1999:

DELIVERY DATES: FY 1997: Nov-96 FY 1998: Nov-97 FY 1999:

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	38	2	3	5	2	1	3	3	3				
OUTPUT	38	2	3	5	2	1	3	3	3				

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT																		60
OUTPUT																		60

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*Note: Reflects total inventory Objective for NAVMACS II, program continues with Tactical DMS.

Feb-98

MODIFICATION TITLE: NAVAL MODULAR AUTOMATED COMMUNICATIONS SYSTEM II (NAVMACS II) (PQ065)
MODELS OF SYSTEMS AFFECTED: Tactical DMS
DESCRIPTION/JUSTIFICATION: The Tactical DMS is the DMS compliant version of the Naval Modular Automated Communications System (NAVMACS II) which will automate and increase the speed and efficiency of handling message traffic aboard ship

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity											44	15.4	36	14.7	38	10.5	63	13.4	78	18.4	265	53.0	524 *	125.4
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment																								
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interim Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	44	7.2	36	6.3	38	5.9	63	9.0	78	6.5	265	12.3	524	47.2
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP																							0	0.0
FY 98 EQUIP																							0	0.0
FY 99 EQUIP											44	7.2											44	7.2
FY 00 EQUIP													36	6.3									36	6.3
FY 01 EQUIP															38	5.9							38	5.9
FY 02 EQUIP																	63	9.0					63	9.0
FY 03 EQUIP																			78	6.5			78	6.5
FY TC EQUIP																					265	12.3	265	12.3
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.0		7.2		6.3		5.9		9.0		6.5		12.3		47.2
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.0		0.0		22.6		21.1		16.4		22.4		24.9		65.3		172.6

METHOD OF IMPLEMENTATION: AIT ADMINISTRATIVE LEADTIME: PROCUREMENT LEADTIME: 1 Mo.

CONTRACT DATES: FY 1997: FY 1998: FY 1999: Oct-98

DELIVERY DATES: FY 1997: FY 1998: FY 1999: Nov-98

INSTALLATION SCHEDULE:	PY	FY 97 1	2	3	4	FY 98 1	2	3	4	FY 99 1	2	3	4
INPUT										10	15	15	4
OUTPUT										2	15	15	12

INSTALLATION SCHEDULE:	FY 00 1	2	3	4	FY 01 1	2	3	4	FY 02 1	2	3	4	FY 03 1	2	3	4	TC	TOTAL
INPUT	10	12	14		10	15	13		15	25	23		15	25	38		265	524
OUTPUT		10	12	14		10	15	13		15	25	23		15	25	38	265	524

*Note: Reflects total inventory Objective for Tactical DMS

Feb-98

MODIFICATION TITLE: NAVAL MODULAR AUTOMATED COMMUNICATIONS SYSTEM II (NAVMACS II) (PQ065)
MODELS OF SYSTEMS AFFECTED: Tactical DMS Upgrade
DESCRIPTION/JUSTIFICATION: The Tactical DMS Upgrade to the Naval Modular Automated Communications System (NAVMACS II) to make those system DMS compliant will automate and increase the speed and efficiency of handling message traffic aboard ships.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity											20	3.6	39	7.0	6	0.5	25	1.9	28	2.1			118	15.1
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment																							0	0.0
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interim Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	20	0.7	39	1.6	6	0.2	25	0.6	28	0.7	0	0.0	118	3.8
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP																							0	0.0
FY 98 EQUIP																							0	0.0
FY 99 EQUIP											20	0.7											20	0.7
FY 00 EQUIP													39	1.6									39	1.6
FY 01 EQUIP															6	0.2							6	0.2
FY 02 EQUIP																	25	0.6					25	0.6
FY 03 EQUIP																			28	0.7			28	0.7
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.0		0.7		1.6		0.2		0.6		0.7		0.0		3.8
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.0		0.0		4.4		8.5		0.7		2.5		2.8		0.0		18.9

METHOD OF IMPLEMENTATION: AIT ADMINISTRATIVE LEADTIME: PROCUREMENT LEADTIME: 1 Mo.

CONTRACT DATES: FY 1997: FY 1998: FY 1999: Oct-98

DELIVERY DATES: FY 1997: FY 1998: FY 1999: Nov-98

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT											10	10	
OUTPUT												10	10

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT	10	15	14		6				5	10	10		5	10	13			118
OUTPUT		10	15	14		6				5	10	10		5	10	13		118

*Note: Reflects total inventory Objective for Tactical DMS Upgrade for NAVMACS II.

Feb-98

MODIFICATION TITLE: SHIPBOARD AUTOMATED COMMUNICATIONS CONTROL SYSTEM (SACCS) (PQ0069)
MODELS OF SYSTEMS AFFECTED: SACCS
DESCRIPTION/JUSTIFICATION: Provides computer assisted control of shipboard RCS equipment

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity	8	15.5	3	2.5	11	2.7																	22 *	20.7
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment																							0	0
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interim Contractor Support																								
Installation of Hardware*	3	1.2	5	2.4	1	2.2	13	1.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	22	7.5
PRIOR YR EQUIP	3	1.2	5	2.4																			8	4
FY 95 EQUIP					1	2.2	2	0.2															3	2
FY 96 EQUIP							11	1.5															11	2
FY 97 EQUIP																							0	0
FY 98 EQUIP																							0	0
FY 99 EQUIP																							0	0
FY 00 EQUIP																							0	0
FY 01 EQUIP																							0	0
FY 02 EQUIP																							0	0
FY 03 EQUIP																							0	0
FY TC EQUIP																							0	0
TOTAL INSTALLATION COST		1.2		2.4		2.2		1.7		0.0		0.0		0.0		0.0		0.0		0.0		0.0		7.5
TOTAL PROCUREMENT COST		16.7		4.9		4.9		1.7		0.0		0.0		0.0		0.0		0.0		0.0		0.0		28.2

METHOD OF IMPLEMENTATION: FIP/AIT ADMINISTRATIVE LEADTIME: 3 Mo. PROCUREMENT LEADTIME: 12 Mo.

CONTRACT DATES: FY 1997: Dec-96 FY 1998: Dec-97 FY 1999:

DELIVERY DATES: FY 1997: Dec-97 FY 1998: Dec-98 FY 1999:

INSTALLATION SCHEDULE:	PY	FY 97 1	2	3	4	FY 98 1	2	3	4	FY 99 1	2	3	4
INPUT	9		4	4	5								
OUTPUT	9		4	4	5								

INSTALLATION SCHEDULE:	FY 00 1	2	3	4	FY 01 1	2	3	4	FY 02 1	2	3	4	FY 03 1	2	3	4	TC	TOTAL
INPUT																		22
OUTPUT																		22

*Note: *Note: Totals reflect final inventory objective.

Feb-98

MODIFICATION TITLE: SHIPBOARD AUTOMATED COMMUNICATIONS CONTROL SYSTEM (SACCS) (PQ0069)
MODELS OF SYSTEMS AFFECTED: SACCS/ADNS Build One
DESCRIPTION/JUSTIFICATION: Enables JMCOMS Automated Digital Network System (ADNS) strategy by asynchronous transfer mode (ATM) services.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity							15	3.9															15	3.9
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment																							0	0
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interim Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	4	2.4	11	5.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	15	5.9
PRIOR YR EQUIP																							0	0
FY 95 EQUIP																							0	0
FY 96 EQUIP																							0	0
FY 97 EQUIP							4	2.4	11	3.5													15	6
FY 98 EQUIP																							0	0
FY 99 EQUIP																							0	0
FY 00 EQUIP																							0	0
FY 01 EQUIP																							0	0
FY 02 EQUIP																							0	0
FY 03 EQUIP																							0	0
FY TC EQUIP																							0	0
TOTAL INSTALLATION COST		0.0		0.0		0.0		2.4		5.9		0.0		0.0		0.0		0.0		0.0		0.0		5.9
TOTAL PROCUREMENT COST		0.0		0.0		0.0		6.3		5.9		0.0		0.0		0.0		0.0		0.0		0.0		9.8

METHOD OF IMPLEMENTATION: FIP/AIT ADMINISTRATIVE LEADTIME: 3 Mo. PROCUREMENT LEADTIME: 9 Mo.

CONTRACT DATES: FY 1997: Dec-96 FY 1998: FY 1999:

DELIVERY DATES: FY 1997: Aug-97 FY 1998: FY 1999:

INSTALLATION SCHEDULE:	PY	FY 97 1	2	3	4	FY 98 1	2	3	4	FY 99 1	2	3	4
INPUT					4	6	5						
OUTPUT						4	3	6	2				

INSTALLATION SCHEDULE:	FY 00 1	2	3	4	FY 01 1	2	3	4	FY 02 1	2	3	4	FY 03 1	2	3	4	TC	TOTAL
INPUT																		15 *Note
OUTPUT																		15

*Note: Totals reflect final inventory objective.

Feb-98

MODIFICATION TITLE: SHIPBOARD AUTOMATED COMMUNICATIONS CONTROL SYSTEM (SACCS) (PQ0069)
MODELS OF SYSTEMS AFFECTED: SACCS/ADNS Build Two
DESCRIPTION/JUSTIFICATION: Enables JMCOMS Automated Digital Network System (ADNS) strategy by asynchronous transfer mode (ATM) services.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity									16	15.2													16	15.2
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment																							0	0
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interim Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	16	5.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	16	5
PRIOR YR EQUIP																							0	0
FY 95 EQUIP																							0	0
FY 96 EQUIP																							0	0
FY 97 EQUIP																							0	0
FY 98 EQUIP											16	5.3											16	5
FY 99 EQUIP																							0	0
FY 00 EQUIP																							0	0
FY 01 EQUIP																							0	0
FY 02 EQUIP																							0	0
FY 03 EQUIP																							0	0
FY TC EQUIP																							0	0
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.0		5.3		0.0		0.0		0.0		0.0		0.0		5.3
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.0		15.2		5.3		0.0		0.0		0.0		0.0		0.0		20.5

METHOD OF IMPLEMENTATION: FIP/AIT ADMINISTRATIVE LEADTIME: 3 Mo. PROCUREMENT LEADTIME: 12 Mo.

CONTRACT DATES: FY 1997: FY 1998: Dec-97 FY 1999:

DELIVERY DATES: FY 1997: FY 1998: Dec-98 FY 1999:

INSTALLATION SCHEDULE:	PY	FY 97 1	2	3	4	FY 98 1	2	3	4	FY 99 1	2	3	4
INPUT										3	9	4	
OUTPUT											3	9	4

INSTALLATION SCHEDULE:	FY 00 1	2	3	4	FY 01 1	2	3	4	FY 02 1	2	3	4	FY 03 1	2	3	4	TC	TOTAL
INPUT																		16 *Note
OUTPUT																		16

*Note: Totals reflect final inventory objective.

Feb-98

MODIFICATION TITLE: SHIPBOARD AUTOMATED COMMUNICATIONS CONTROL SYSTEM (SACCS) (PQ0069)
MODELS OF SYSTEMS AFFECTED: SACCS/ADNS Build Three
DESCRIPTION/JUSTIFICATION: Enables JMCOMS Automated Digital Network System (ADNS) strategy by asynchronous transfer mode (ATM) services.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity											23	18.8	36	27.2	39	31.2	33	25.9	23	17.8	53	44.8	207	165.7
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment																							0	0.0
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interim Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	23	7.8	36	11.7	39	13.8	33	11.9	76	25.2	207	70.4
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP																							0	0.0
FY 98 EQUIP																							0	0.0
FY 99 EQUIP													23	7.8									23	7.8
FY 00 EQUIP															36	11.7							36	11.7
FY 01 EQUIP																	39	13.8					39	13.8
FY 02 EQUIP																			33	11.9			33	11.9
FY 03 EQUIP																					0	0.0	0	0.0
FY TC EQUIP																					76	25.2	76	25.2
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.0		0.0		7.8		11.7		13.8		11.9		25.2		70.4
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.0		0.0		18.8		35.0		42.9		39.7		29.7		70.0		236.1

METHOD OF IMPLEMENTATION: FIP/AIT ADMINISTRATIVE LEADTIME: 3 Mo. PROCUREMENT LEADTIME: 12 Mo.

CONTRACT DATES: FY 1997: FY 1998: FY 1999: Dec-98

DELIVERY DATES: FY 1997: FY 1998: FY 1999: Dec-99

INSTALLATION SCHEDULE:	PY	FY 97 1	2	3	4	FY 98 1	2	3	4	FY 99 1	2	3	4
INPUT													
OUTPUT													

INSTALLATION SCHEDULE:	FY 00 1	2	3	4	FY 01 1	2	3	4	FY 02 1	2	3	4	FY 03 1	2	3	4	TC	TOTAL
INPUT	7	7	9		8	13	15		8	15	16		8	12	13		76	207 *Note
OUTPUT		7	7	9		8	13	15		8	15	16		8	12	13	76	207

*Note: Totals reflect final inventory objective.

Feb-98

MODIFICATION TITLE: HIGH SPEED FLEET BROADCAST (PQ071)
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: Replaces the current outmoded system with a system that is much faster, more flexible and provides more efficient use of transmission media such as satellite and HF.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	
RDT&E																								
PROCUREMENT:																								
Kit Quantity	1	4.9	34	4.4			22	3.1	0	0.5													57	12.9
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment Purchased for Marine Corps)			4	0.5																			4	0.5
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																							0	0.0
Interim Contractor Support																								
Installation of Hardware*	0	0.0	1	0.1	38	0.0	0	0.0	22	1.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	61	1.4
PRIOR YR EQUIP			1	0.1																			1	0.1
FY 95 EQUIP					38	0.0																	38	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP									22	1.3													22	1.3
FY 98 EQUIP																							0	0.0
FY 99 EQUIP																							0	0.0
FY 00 EQUIP																							0	0.0
FY 01 EQUIP																							0	0.0
FY 02 EQUIP																							0	0.0
FY 03 EQUIP																							0	0.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		0.1		0.0		0.0		1.3		0.0		0.0		0.0		0.0		0.0		0.0	0	1.4
TOTAL PROCUREMENT COST		4.9		4.5		0.0		3.4		1.8		0.0		0.0		0.0		0.0		0.0		0.0	0	14.7

METHOD OF IMPLEMENTATION: AIT ADMINISTRATIVE LEADTIME: 3 Mos. PROCUREMENT LEADTIME: 12 Mos.

CONTRACT DATES: FY 1997: Dec-96 FY 1998: Dec-97 FY 1999:

DELIVERY DATES: FY 1997: Dec-97 FY 1998: Dec-98 FY 1999:

INSTALLATION SCHEDULE:	PY	FY 97 1	2	3	4	FY 98 1	2	3	4	FY 99 1	2	3
INPUT	39					12	10					
OUTPUT	39							12	10			

INSTALLATION SCHEDULE:	FY 00 1	2	3	4	FY 01 1	2	3	4	FY 02 1	2	3	4	FY 03 1	2	3	4	TC	TOTAL
INPUT																		61 *Note
OUTPUT																		61

*Note: FY98 procurement required to complete installation of 22 units procured in FY97. The FY98 procurement is required to obtain low noise amplifiers. Totals reflect final inventory objective.

Feb-98

MODIFICATION TITLE: ATM LAN (PQ007)

MODELS OF SYSTEMS AFFECTED: Provides modern centrally managed mission support ADP systems to replace aging Shipboard Non-Tactical ADP Program (SNAP) systems for Battle Group ships.

DESCRIPTION/JUSTIFICATION: Application subsystems include/financial/inventory management, organizational and surface maintenance management, and administrative information systems support. NTCSS procurements will also provide ship capabilities for displaying and storing CALS initiative information (digitized engineering drawings, automated technical manuals, etc.).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment											8	22.1	32	29.0	32	30.1	28	23.4	36	26.7			136	131.2
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*											8	8.0	32	17.5	32	16.1	28	13.2	36	14.7			136	69.5
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP																							0	0.0
FY 98 EQUIP																							0	0.0
FY 99 EQUIP											8	8.0											8	8.0
FY 00 EQUIP													32	17.5									32	17.5
FY 01 EQUIP															32	16.1							32	16.1
FY 02 EQUIP																	28	13.2					28	13.2
FY 03 EQUIP																			36	14.7			36	14.7
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST											8	8.0	32	17.5	32	16.1	28	13.2	36	14.7			136	69.5
TOTAL PROCUREMENT COST												30.1		46.5		46.1		36.6		41.4				200.7

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 2 months PROCUREMENT LEADTIME: 3 months

CONTRACT DATES: FY 1997: N/A FY 1998: N/A FY 1999: Nov-98

DELIVERY DATES: FY 1997: N/A Aug-97 FY 1998: N/A FY 1999: Jan-99

INSTALLATION SCHEDULE:	PY	FY 97 1	2	3	4	FY 98 1	2	3	4	FY 99 1	2	3	4
INPUT											3	3	2
OUTPUT											3	3	2

INSTALLATION SCHEDULE:	FY 00 1	2	3	4	FY 01 1	2	3	4	FY 02 1	2	3	4	FY 03 1	2	3	4	TC	TOTAL
INPUT		10	13	9		12	15	5		10	10	8		12	15	9		136
OUTPUT		10	13	9		12	15	5		10	10	8		12	15	9		136

UNCLASSIFIED

CLASSIFICATION

PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE: Feb-98

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
BLI: 3050 SHIP COMMUNICATIONS AUTOMATION

SUBHEAD NO.
52PQ

COST CODE	ITEM/MANUFACTURER	FY	SERV	PROC QTY	ACCEP PRIOR TO 1-Oct	BAL DUE AS OF 1-Oct	FISCAL YEAR 96												FISCAL YEAR 97												FISCAL YEAR 98											
							PY			CALENDAR YEAR 96									CALENDAR YEAR 97												CALENDAR YEAR 98											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PQ065	NAVMACS II	97		7		7													A	2			5																			
	NAVMACS II	98		10		10																									A	1			1	2		1	2		3	
	Tactical DMS	99		44		44																																				
	Tactical DMS Upgrade	99		20		20																																				
PQ069	SACCS/ADNS Build One	97		15		15															A								2	2	2	2	2	2	2	1						
	SACCS/ADNS Build Two	98		16		16																											A									
	SACCS/ADNS Build Three	99		23		23																																				
	SACCS/ADNS Build One Upgrade	99		15		15																																				
PQ071	HSFB	97		22		22															A												6	6	6	4						
PQ007	ATM LAN	99		8		8																																				

OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure
NAVMACS II										
SSACCS										
HSFB										

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST

ITEM NO. 102 **PAGE NO.** 14

UNCLASSIFIED

CLASSIFICATION

UNCLASSIFIED
CLASSIFICATION

PRODUCTION SCHEDULE **(DOD EXHIBIT P-21A)**

DATE Feb-98

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
BLI: 3050 SHIP COMMUNICATIONS AUTOMATION

SUBHEAD NO. 52PQ

COST CODE	ITEM/MANUFACTURER/ PROCUREMENTY YEAR	FISCAL YEAR	CARRY OVER	FISCAL YEAR 99												FISCAL YEAR 00												FISCAL YEAR 01												LATER
				CY98			CALENDAR YEAR 99											CALENDAR YEAR 00												CALENDAR YEAR 01										
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
PQ065	NAVMACS II	97																																						
	NAVMACS II	98																																						
	Tactical DMS	99	44	A	5	5	5	5	5	5	5	5	4																											
	Tactical DMS Upgrade	99	20	A	4	6	6	4																																
PQ069	SACCS/ADNS Build One	97																																						
	SACCS/ADNS Build Two	98	16			3	3	3	3	2	2																													
	SACCS/ADNS Build Three	99	23			A												6	6	6	5																			
	SACCS/ADNS Build One Upgrade	99	15			A												4			4		7																	
PQ071	HSFB	97																																						
PQ007	ATM LAN	99	8		A		1	1	1	2	1		1	1																										

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure
NAVMACS II										
SSACCS										
HSFB										

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST
ITEM NO. 102 PAGE NO. 15

UNCLASSIFIED
CLASSIFICATI

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
BLI: 3055 Ship Items Under $2M

SUBHEAD
52NG

	PY			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TO COMP	TOTAL
QUANTITY												
COST (in millions)	**$51.9**			**$10.8**	**$12.1**	**$24.2**	**$24.3**	**$24.8**	**$22.7**	**$22.9**	**$23.5**	**$221.6**

PROGRAM COVERAGE: Funds provide for the continued procurement of items of lesser visibility but required for the necessary integration and completion of communications suites aboard ship.

The R-2368/URR will replace all existing HF receivers and will provide a capability for automated operation.

The Red and Black Digital Switches are essential elements of the JMCOMS/COPERNICUS switching architecture. These switches will provide the capability for automation of the Radio Communications Suite, via automatic interconnection between the remote subscriber to cryptographic equipment/multiplexers and digital radio equipment. This program provides for the transition of JMCOMS ADNS to the desired objective of ISDN and ATM suitability.

The FCIP upgrades C4I equipment on over 200 ships annually by installing field changes to correct equipment and personnel safety hazards, restore reliability, update operating parameters, correct inter-operability problems, and replace obsolete components. AIT coordination supports alterations that are made outside scheduled availabilities and integrates AIT installation with TYCOM pier side availability schedules. FMP Management Support in San Diego and the Washington liaison office maintains FMPMIS and other FMP databases that ensures material acquisition, timely delivery, correct quantities and configuration of hardware in support of SHIPALT installations.

Battle Group Cellular Telephone(BG Cellular)/Maritime Cellular Information Exchange Systems (MCIXS) provides non mission-critical Intra-Battle Group real-time transfer of information using a standard telephone or cellular hand held mobile telephone.

Video Information Exchange System (VIXS) provides the Fleet with tactical video teleconferencing. The system provides multipoint secure VTC between deployed carriers/large deck amphibs, Fleet CINCs, CNO and select DOD commands. Shipboard systems also provide connectivity to the JWICS VTC system.

Installing Agents: Installation will be accomplished by Alteration Installation (AIT) from SPAWAR field activities.

COST ANALYSIS

DATE February 1998

APPROPRIATION ACTIVITY OP,N - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE BLI: 3055 Ship Items Under $2M

SUBHEAD 52NG

			TOTAL COST IN THOUSANDS OF DOLLARS																
			PY		FY 1995			FY 1996			FY 1997			FY 1998			FY 1999		
COST CODE	ELEMENT OF COST	ID CODE	QTY	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
NG019	Link 4 Upgrade	A											0			0			0
NG184	R2368/URR HF Receiver	A									107	11	1,227	17	12	209	250	8	2,073
NG235	Black Switch	A											0			0			0
NG232	LWCA	A											0			0			0
NG236	IUW VAN P31 (OP-04)	A											0			0			0
NG237	Red/Black DGTL SW	A									1	1,405	1,405	4	795	3,181	6	1,122	6,729
NG238	MCIXS	A									3	305	915	4	286	1,145	6	198	1,188
NG239	VIXS	A											0			0	14	33	459
NG366	C4I Upgrades	A									1	1,141	1,141						
NG776	Non-FMP Installation (VIXS)																		146
NG777	FMP Installation	A											6,130			6,826			12,542
	FMP DSA	A											0			731			1,083
	Various/1																		
	TOTAL CONTROLS												10,818			12,092			24,220

1/ Various The amount identified against this cost element reflects total prior year funding associated with cost elements no longer financed in FY 95 and beyond.

PROCUREMENT HISTORY AND PLANNING

A. DATE February 1998

B. APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

C. P-1 ITEM NOMENCLATURE SHIP COMM ITEMS UNDER $2M

SUBHEAD 52NG

COST CODE	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
NG184	R2368/URR	97	HARRIS	C-OPT	SPAWAR		Jan-97	Jan-98	107	$11,467	YES	
		98	TBD	COMP	SPAWAR	Jul-97	Feb-98	Jun-98	17	$12,294	YES	
		99	TBD	C-OPT	SPAWAR	Jul-97	Oct-98	Jun-99	250	$8,292	YES	
NG237	RED/BLACK DIGITAL SWITCH	97	NRAD, CA	FFP/OPT	SPAWAR	Jul-96	Jan-97	Jan-98	1	$1,405,000	YES	
		98	NRAD, CA	FFP/OPT	SPAWAR	Jul-97	Jan-98	Jan-99	4	$795,250	YES	
		99	NRAD, CA	FFP/OPT	SPAWAR	Jul-98	Jan-99	Jan-00	6	$1,121,500	YES	
NG238	MCIXS	97	TTK Inc	FFP/OPT	SPAWAR		Dec-96	Mar-97	3	$305,000	YES	
		98	TTK Inc	FFP/OPT	SPAWAR		Oct-97	Jan-98	4	$286,250	YES	
		99	TTK Inc	FFP/OPT	SPAWAR		Oct-98	Dec-98	6	$198,000	YES	
NG239	VIXS	99	NISE/E	WX	SPAWAR		Dec-98	Apr-99	14	$32,785.7	YES	
NG366	C4I UPGRADES	97	DEC	BPA	NRAD	Apr-97	Apr-97	Sep-97	1	$1,141,000	YES	

D. REMARKS

NG237 UNIT COST VARIES DEPENDING ON DIFFERENT CONFIGURATION FOR EACH SHIP PLATFORM.
NG184 R2368/URR function will be bought under the Digital Modular Radio contract starting in FY98.

Feb-98

MODIFICATION TITLE: FIELD CHANGES
MODELS OF SYSTEMS AFFECTED: Various C4I Systems
DESCRIPTION/JUSTIFICATION: The FCIP upgrades C4I equipment on over 200 ships annually by installing field changes to correct equipment and personnel safety hazards, restore reliability, update operating parameters, correct inter-operability problems and replace obsolete components.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment	4450	3.0			2616	2.1	4420	3.6	6580	5.3	7720	6.5	6700	5.9	6800	6.0	5900	5.4	7800	6.9			52986	44.7
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*																								
PRIOR YR EQUIP	4450	0.0																					4450	0
FY 95 EQUIP																							0	0
FY 96 EQUIP					2616	0.0																	2616	0
FY 97 EQUIP							4420	0.0															4420	0
FY 98 EQUIP									6580	0.0													6580	0
FY 99 EQUIP											7720	0.0											7720	0
FY 00 EQUIP													6700	0.0									6700	0
FY 01 EQUIP															6800	0.0							6800	0
FY 02 EQUIP																	5900	0.0					5900	0
FY 03 EQUIP																			7800	0.0			7800	0
FY TC EQUIP																								
TOTAL INSTALLATION COST	4450	3.0	0	0.0	2616	0.0	4420	0.0	6580	0.0	7720	0.0	6700	0.0	6800	0.0	5900	0.0	7800	0.0	0	0.0	52986	0.0
TOTAL PROCUREMENT COST		3.0		0.0		2.1		3.6		5.3		6.5		5.9		6.0		5.4		6.9		0.0		44.7

METHOD OF IMPLEMENTATION: AIT
ADMINISTRATIVE LEADTIME:
PROCUREMENT LEADTIME:

CONTRACT DATES: FY 1996: FY 1997: FY 1998: FY 1999:

DELIVERY DATES: FY 1996: FY 1997: FY 1998: FY 1999:

INSTALLATION SCHEDULE:	PY	FY 95 1	FY 95 2	FY 95 3	FY 95 4	FY 96 1	FY 96 2	FY 96 3	FY 96 4	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	4450	0	0	0	0	654	654	654	654	1105	1105	1105	1105	1645	1645	1645	1645	1930	1930	1930	1930
OUTPUT	4450	0	0	0	0	654	654	654	654	1105	1105	1105	1105	1645	1645	1645	1645	1930	1930	1930	1930

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT	1675	1675	1675	1675	1700	1700	1700	1700	1475	1475	1475	1475	1950	1950	1950	1950	0	52986
OUTPUT	1675	1675	1675	1675	1700	1700	1700	1700	1475	1475	1475	1475	1950	1950	1950	1950	0	52986

Note: Equipment is turn-key with install included in hardware cost.

Feb-98

MODIFICATION TITLE: R-2368/URR HF Receiver (NG184)
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: Replaces all functionally obsolete MF and HF recievers with a receiver capable of operating in a remote automated environment.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																							*	
PROCUREMENT:	1827	7.9	125	1.0	194	1.7	107	1.2	17	0.2	250	2.1	270	2.3	284	2.5	40	0.4	0	0.0	114	1.1	3228	20.4
Kit Quantity																							0	0.0
Installation Kits																							0	0.0
Installation Kits Nonrecurring																							0	0.0
Equipment		7.9		1.0		1.7		1.2		0.2		1.7		2.3		2.5		0.4		0.0	114	1.1	114	20.0
Equipment Nonrecurring												0.4											0	0.4
Engineering Change Orders																							0	0.0
Data																							0	0.0
Training Equipment																							0	0.0
Support Equipment																							0	0.0
Other																							0	0.0
Interm Contractor Support																							0	0.0
Installation of Hardware*	1756	1.8	71	0.3	125	0.6	194	0.5	107	0.5	17	0.1	250	0.8	270	1.0	284	1.8	40	0.2	114	0.6	3228	8.2
PRIOR YR EQUIP	1756	1.8	71	0.3																			1827	2.1
FY 95 EQUIP					125	0.6																	125	0.6
FY 96 EQUIP							194	0.5	0		0		0		0		0		0		0		194	0.5
FY 97 EQUIP									107	0.5													107	0.5
FY 98 EQUIP											17	0.1											17	0.1
FY 99 EQUIP													250	0.8									250	0.8
FY 00 EQUIP															270	1.0							270	1.0
FY 01 EQUIP																	284	1.8					284	1.8
FY 02 EQUIP																			40	0.2			40	0.2
FY 03 EQUIP																							0	0.0
FY TC EQUIP																					114	0.6	114	0.6
TOTAL INSTALLATION COST	1756	1.8	71	0.3	125	0.6	194	0.5	107	0.5	17	0.1	250	0.8	270	1.0	284	1.8	40	0.2	0	0.6	3228	8.2
TOTAL PROCUREMENT COST		9.7		1.3		2.3		1.7		0.7		2.2		3.1		3.5		2.2		0.2		1.7		28.6

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PROCUREMENT LEADTIME: 12 months

CONTRACT DATES: FY 1996: FY 1997: Jan-97 FY 1998: Jan-98 FY 1999: Jan-99

DELIVERY DATES: FY 1996: FY 1997: Jan-98 FY 1998: Jan-99 FY 1999: Jan-00

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	1952		150	44			63	44			17		
OUTPUT	1952		50	50	50	44	35	35	37			17	

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT		150	100			150	120			150	134			40			114	3228
OUTPUT		65	65	65	55	70	70	70	60	95	96	93			40		114	3228

* Reflects Total Inventory Objective

Feb-98

MODIFICATION TITLE: RED/BLACK DIGITAL SWITCH (NG237)
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: Red/Black Baseband Switch will provide automated and remote controls of digital circuits.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES Non-developmental Item
FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																							*	
PROCUREMENT:	1	0.9	2	3.8	3	3.1	1	1.4	4	3.2	6	6.7	5	5.6	6	6.9	4	4.3	5	5.8			37	41.7
Kit Quantity																							0	0.0
Installation Kits																							0	0.0
Installation Kits Nonrecurring																							0	0.0
Equipment																							0	0.0
Equipment Nonrecurring																							0	0.0
Engineering Change Orders																							0	0.0
Data																							0	0.0
Training Equipment																							0	0.0
Support Equipment																							0	0.0
Other																							0	0.0
Interm Contractor Support																							0	0.0
Installation of Hardware*																								
PRIOR YR EQUIP					1	0.3																	1	0.0
FY 95 EQUIP					2	0.6																	2	0.9
FY 96 EQUIP							3	0.4															3	0.4
FY 97 EQUIP									1	0.8													1	0.8
FY 98 EQUIP											4	5.6											4	5.6
FY 99 EQUIP													6	6.2									6	6.2
FY 00 EQUIP															5	5.1							5	5.1
FY 01 EQUIP																	6	5.1					6	5.1
FY 02 EQUIP																			4	3.9			4	3.9
FY 03 EQUIP																					5	3.5	5	3.5
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0	0	0.0	3	0.9	3	0.4	1	0.8	4	5.6	6	6.2	5	5.1	6	5.1	4	3.9	5	3.5	37	31.5
TOTAL PROCUREMENT COST		0.9		3.8		4.0		1.8		4.0		12.3		11.8		12.0		9.4		9.7		3.5		73.2

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 mo PROCUREMENT LEADTIME: 12 mo

CONTRACT DATES: FY 1996: FY 1997: Jan-97 FY 1998: Jan-98 FY 1999: Jan-99

DELIVERY DATES: FY 1996: FY 1997: Jan-98 FY 1998: Jan-99 FY 1999: Jan-00

INSTALLATION SCHEDULE:	PY	FY 97				FY 98				FY 99			
		1	2	3	4	1	2	3	4	1	2	3	4
INPUT	3			3			1				3	1	
OUTPUT	3				3			1				3	1

INSTALLATION SCHEDULE:	FY 00				FY 01				FY 02				FY 03				TC	TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
INPUT		3	3			3	2			3	3			2	2		5	37
OUTPUT			3	3			3	2			3	3			2	2	5	37

* Reflects Total Inventory Objective

Feb-98

MODIFICATION TITLE: BLACK AUDIO SWITCH (NG235)
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: The Black Audio Switch will allow audio circuits to be configured automatically and from remote locations.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES Non-developmental Item
FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																							*	
PROCUREMENT:	5	2.8	2	1.4																			7	4.2
Kit Quantity																							0	0.0
Installation Kits																							0	0.0
Installation Kits Nonrecurring																							0	0.0
Equipment																							0	0.0
Equipment Nonrecurring																							0	0.0
Engineering Change Orders																							0	0.0
Data																							0	0.0
Training Equipment																							0	0.0
Support Equipment																							0	0.0
Other																							0	0.0
Interm Contractor Support																							0	0.0
Installation of Hardware*																								
PRIOR YR EQUIP			4	0.9	1	0.3																	5	0.3
FY 95 EQUIP							2	0.6															2	0.6
FY 96 EQUIP																							0	0.0
FY 97 EQUIP																							0	0.0
FY 98 EQUIP																							0	0.0
FY 99 EQUIP																							0	0.0
FY 00 EQUIP																							0	0.0
FY 01 EQUIP																							0	0.0
FY 02 EQUIP																							0	0.0
FY 03 EQUIP																							0	0.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0	4	0.9	1	0.3	2	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	0.9
TOTAL PROCUREMENT COST		2.8		2.3		0.3		0.6		0.0		0.0		0.0		0.0		0.0		0.0		0.0		5.1

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PROCUREMENT LEADTIME:

CONTRACT DATES: FY 1996: FY 1997: FY 1998: FY 1999:

DELIVERY DATES: FY 1996: FY 1997: FY 1998: FY 1999:

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	5	2											
OUTPUT	5		2										

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT																		7
OUTPUT																		7

* Reflects Total Inventory Objective

Feb-98

MODIFICATION TITLE: Maritime Cellular Information Exchange Systems (MCIXS NG238) (formerly known as Battle Group Cellular Telephone(BG Cellular)
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: Provides an administrative communications link via ship administrative telephones

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES Non-developmental Item
FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																							*	
PROCUREMENT:					4	0.9	3	0.9	4	1.1	6	1.2	6	1.4	5	1.2							28	6.8
Kit Quantity																							0	0.0
Installation Kits																							0	0.0
Installation Kits Nonrecurring																							0	0.0
Equipment																							0	0.0
Equipment Nonrecurring																							0	0.0
Engineering Change Orders																							0	0.0
Data																							0	0.0
Training Equipment																							0	0.0
Support Equipment																							0	0.0
Other																							0	0.0
Interm Contractor Support																							0	0.0
Installation of Hardware*																								
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP							7	0.2															7	0.2
FY 97 EQUIP									4	0.4													4	0.4
FY 98 EQUIP											6	0.2											6	0.2
FY 99 EQUIP													6	0.3									6	0.3
FY 00 EQUIP															5	0.2							5	0.2
FY 01 EQUIP																							0	0.0
FY 02 EQUIP																							0	0.0
FY 03 EQUIP																							0	0.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST	0	0.0	0	0.0	0	0.0	7	0.2	4	0.4	6	0.2	6	0.3	5	0.2	0	0.0	0	0.0	0	0.0	28	1.2
TOTAL PROCUREMENT COST		0.0		0.0		0.9		1.1		1.5		1.4		1.7		1.4						0.0		8.0

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PROCUREMENT LEADTIME:

CONTRACT DATES: FY 1996: FY 1997: Dec-96 FY 1998: Oct-97 FY 1999: Oct-98

DELIVERY DATES: FY 1996: FY 1997: Mar-97 FY 1998: Jan-98 FY 1999: Dec-98

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	4		3				4			6			
OUTPUT		4		3				4			6		

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT	6				5											0		28
OUTPUT		6				5												28

* Reflects Total Inventory Objective

Feb-98

MODIFICATION TITLE: Maritime Cellular Information Exchange Systems (MCIXS NG238) (formerly known as Battle Group Cellular Telephone/BG Cellular)
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: Technical improvment of existing MCIXS systems based on commercial system availability.

REMARKS: Exhibit reflects ECP change to the MCIXS (NG238) program

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES Non-developmental Item
FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																							*	
PROCUREMENT:																	6	3.5	6	3.9	30	15.0	42	22.4
Kit Quantity																							0	0.0
Installation Kits																							0	0.0
Installation Kits Nonrecurring																							0	0.0
Equipment																							0	0.0
Equipment Nonrecurring																							0	0.0
Engineering Change Orders																							0	0.0
Data																							0	0.0
Training Equipment																							0	0.0
Support Equipment																							0	0.0
Other																							0	0.0
Interm Contractor Support																							0	0.0
Installation of Hardware*																								
PRIOR YR EQUIP																	6	1	6	1	30	3	42	5.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP																							0	0.0
FY 98 EQUIP																							0	0.0
FY 99 EQUIP																							0	0.0
FY 00 EQUIP																							0	0.0
FY 01 EQUIP																							0	0.0
FY 02 EQUIP																	6	1.0					6	1.0
FY 03 EQUIP																			6	1.0			6	1.0
FY TC EQUIP																					30	3.0	30	3.0
TOTAL INSTALLATION COST	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	12	2.0	12	2.0	60	6.0	84	10.0
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		5.5		5.9		21.0		32.4

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PROCUREMENT LEADTIME:

CONTRACT DATES: FY 1996: FY 1997: Dec-96 FY 1998: Oct-97 FY 1999: Oct-98

DELIVERY DATES: FY 1996: FY 1997: Mar-97 FY 1998: Jan-98 FY 1999: Dec-98

INSTALLATION SCHEDULE:	PY	FY 95				FY 96				FY 97				FY 98				FY 99			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
INPUT																					
OUTPUT																					

INSTALLATION SCHEDULE:	FY 00				FY 01				FY 02				FY 03				TC	TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
INPUT									2	2	2		2	2	2	0	30	42
OUTPUT										2	2	2		2	2	2	30	42

* Relfects Total Inventory Objective

Feb-98

MODIFICATION TITLE: VIXS (Video Information Exchange System)-SHIP INSTALLATION
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: Provides multifunctional information exchange systems capable of interactive imagery and video teleconferencing.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES Non-developmental Item
FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																							*	
PROCUREMENT:	0	0.0	3	0.2	0	0.0	0	0.0	0	0.0	11	0.4	8	0.3	11	0.5	7	0.3	10	0.5	0	0.0	50	2.15
Kit Quantity																							0	0.0
Installation Kits																							0	0.0
Installation Kits Nonrecurring																							0	0.0
Equipment																							0	0.0
Equipment Nonrecurring																							0	0.0
Engineering Change Orders																							0	0.0
Data																							0	0.0
Training Equipment																							0	0.0
Support Equipment																							0	0.0
Other																							0	0.0
Interm Contractor Support																							0	0.0
Installation of Hardware*																								
PRIOR YR EQUIP	0	0.0	3	0.2	0	0.0	0	0.0	0	0.0	11	0.3	8	0.3	11	0.4	7	0.2	10	0.4	0	0.0	50	1.9
FY 95 EQUIP			3	0.2																			3	0.2
FY 96 EQUIP					0	0.0																	0	0.0
FY 97 EQUIP							0	0.0															0	0.0
FY 98 EQUIP									0	0.0													0	0.0
FY 99 EQUIP											11	0.3											11	0.3
FY 00 EQUIP													8	0.3									8	0.3
FY 01 EQUIP															11	0.4							11	0.4
FY 02 EQUIP																	7	0.2					7	0.2
FY 03 EQUIP																			10	0.4			10	0.4
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST	0	0.0	3	0.2	0	0.0	0	0.0	0	0.0	11	0.3	8	0.3	11	0.4	7	0.2	10	0.4	0	0.0	50	1.9
TOTAL PROCUREMENT COST		0.0		0.4		0.0		0.0		0.0		0.7		0.6		0.9		0.5		1.0		0.0		4.0

METHOD OF IMPLEMENTATION: AIT ADMINISTRATIVE LEADTIME: 30 days PROCUREMENT LEADTIME: 60 days

CONTRACT DATES: FY 1996: FY 1997: FY 1998: FY 1999: Dec-98

DELIVERY DATES: FY 1996: FY 1997: FY 1998: FY 1999: Apr-99

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	3											11	
OUTPUT	3											6	5

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT			8		5	3	3		3	2	2		5	5			0	50
OUTPUT				8		5	3	3		3	2	2		5	5		0	50

* Reflects Total Inventory Objective

Feb-98

MODIFICATION TITLE: VIXS (Video Information Exchange System)-SHORE INSTALLATION
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: Provides multifunctional information exchange systems capable of interactive imagery and video teleconferencing.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES Non-developmental Item
FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																							*	
PROCUREMENT:	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1	5	0.2	0	0.0	3	0.1	0	0.0	0	0.0	11	0.4
Kit Quantity																							0	0.0
Installation Kits																							0	0.0
Installation Kits Nonrecurring																							0	0.0
Equipment																							0	0.0
Equipment Nonrecurring																							0	0.0
Engineering Change Orders																							0	0.0
Data																							0	0.0
Training Equipment																							0	0.0
Support Equipment																							0	0.0
Other																							0	0.0
Interm Contractor Support																							0	0.0
Installation of Hardware*																								
PRIOR YR EQUIP	0	0.0																					0	0.0
FY 95 EQUIP			0	0.0																			0	0.0
FY 96 EQUIP					0	0.0																	0	0.0
FY 97 EQUIP							0	0.0															0	0.0
FY 98 EQUIP									0	0.0													0	0.0
FY 99 EQUIP											3	0.1											3	0.1
FY 00 EQUIP													5	0.1									5	0.1
FY 01 EQUIP															0	0.0							0	0.0
FY 02 EQUIP																	3	0.2					3	0.2
FY 03 EQUIP																			0	0.0			0	0.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1	5	0.1	0	0.0	3	0.2	0	0.0	0	0.0	11	0.4
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.0		0.0		0.2		0.3		0.0		0.3		0.0		0.0		0.8

METHOD OF IMPLEMENTATION: AIT ADMINISTRATIVE LEADTIME: 30 days PROCUREMENT LEADTIME: 60 days

CONTRACT DATES: FY 1996: FY 1997: FY 1998: FY 1999: Dec-98

DELIVERY DATES: FY 1996: FY 1997: FY 1998: FY 1999: Apr-99

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT												3	
OUTPUT													3

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT	5								3								0	11
OUTPUT		5								3							0	11

* Reflects Total Inventory Objective

Feb-98

MODIFICATION TITLE: C4I UPGRADES
MODELS OF SYSTEMS AFFECTED: Various C4I Systems
DESCRIPTION/JUSTIFICATION: Technical improvment of existing C4I systems based on commercial system availability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES Non-developmental Item
FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E							1	1.1															1	1.1
PROCUREMENT:																							0	0.0
Kit Quantity																							0	0.0
Installation Kits																							0	0.0
Installation Kits Nonrecurring																							0	0.0
Equipment																							0	0.0
Equipment Nonrecurring																							0	0.0
Engineering Change Orders																							0	0.0
Data																							0	0.0
Training Equipment																							0	0.0
Support Equipment																							0	0.0
Other																							0	0.0
Interm Contractor Support																							0	0.0
Installation of Hardware*																								
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP							1	0.4															1	0.4
FY 98 EQUIP																							0	0.0
FY 99 EQUIP																							0	0.0
FY 00 EQUIP																							0	0.0
FY 01 EQUIP																							0	0.0
FY 02 EQUIP																							0	0.0
FY 03 EQUIP																							0	0.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4
TOTAL PROCUREMENT COST		0.0		0.0		0.0		1.5		0.0		0.0		0.0		0.0		0.0		0.0		0.0		1.5

METHOD OF IMPLEMENTATION: AIT ADMINISTRATIVE LEADTIME: 1 mo PROCUREMENT LEADTIME: 4 mo

CONTRACT DATES: FY 1996: FY 1997: Apr-97 FY 1998: FY 1999:

DELIVERY DATES: FY 1996: FY 1997: Sep-97 FY 1998: FY 1999:

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT					1								
OUTPUT					1								

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT																		1
OUTPUT																		1

UNCLASSIFIED
CLASSIFICATION

PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE
February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
BLI: 3055 Ship Items Under $2M

SUBHEAD NO.
52NG

COST CODE	ITEM/MANUFACTURER	FY	SERV	PROC QTY	ACCEP PRIOR TO 1-Oct	BAL DUE AS OF 1-Oct	FISCAL YEAR 96												FISCAL YEAR 97												FISCAL YEAR 98								
							PY			CALENDAR YEAR 96									CALENDAR YEAR 97												CALENDAR YEAR 98								
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
NG814	R2368/URR	97		107		107																A												75	32							
		98		17		17																													A				13	13		
		99		250		250																																				
NG237	Red/Black DGTL Sw	97		1		1																A												1								
		98		4		4																												A								
		99		6		6																																				
NG238	MCIXS	97		3		3															A			3																		
		98		4		4																									A			4								
		99		6		6																																				
NG239	VIXS	99		14		14																																				
NG366	C4I UPGRADES	97		1		1																			A					1												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST
ITEM NO. 103 PAGE NO. 13

UNCLASSIFIED
CLASSIFICATION

UNCLASSIFIED
CLASSIFICATION

PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE
February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
BLI: 3055 Ship Items Under $2M

SUBHEAD NO.
52NG ###

COST CODE	ITEM/MANUFACTURER/ PROCUREMENTY YEAR	FISCAL YEAR	CARRY OVER	FISCAL YEAR 99														FISCAL YEAR 00												FISCAL YEAR 01									LATER
				CY98			CALENDAR YEAR 99											CALENDAR YEAR 00												CALENDAR YEAR 01									
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
NG184	R2368/URR	97																																					
		98	26																																				
		99	250	A								40	40	40	40	40	40	10																					
NG237	Red/Black DGTL Sw	97																																					
		98	4				1	1	1	1																													
		99	6				A												2	2	2																		
NG238	MCIXS	97																																					
		98																																					
		99	6	A		6																																	
NG239	VIXS	99	14			A				7	7																												
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST
ITEM NO. 103 PAGE NO. 14

UNCLASSIFIED
CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
310700 Shore LF/VLF Communications

SUBHEAD
52W4

	PY			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TO COMP	TOTAL
QUANTITY												
COST (in millions)	**$40.0**			**$3.1**	**$7.6**	**$13.0**	**$19.1**	**$16.7**	**$19.3**	**$4.0**	Continuing	Continuing

Prior years includes fiscal years FY1990 to FY1996.

PROGRAM COVERAGE/JUSTIFICATION FOR BUDGET YEAR REQUIREMENTS: The Shore Low Frequency (LF)/Very Low Frequency (VLF) program was established to improve the reliability, efficiency, and performance of transmitting components of the submarine broadcast system. These transmitters comprise the primary line of Fleet Ballistic Missile Command Control Communications (FBMC3). Four (4) VLF and six (6) LF transmitting sites are Emergency Action Message (EAM) relay points providing primary connectivity between National Command Authorities (NCA) and SSBNs. Tasks are planned/ongoing to improve performance of LF/VLF broadcast system capabilities consistent with changing operational requirements.

(1) FVLF/LF Solid State Transmitter (SST): Program procures energy efficient Solid State Power Transmitter and associated ancillary equipment for the VLF/LF Shore based transmitters of the Submarine Broadcast system.
(2) REM (Range Extension Mode): Provides upgrades to software algorithms to increase ocean coverage of the FVLF/LF submarine broadcast without increasing transmitter power.
(3) VALUE (Very Low Frequency Ashore Lifetime Upkeep Effort): Provides upgrades to correct deficiencies in material condition and logistics support of existing FVLF/LF transmitters at shore stations worldwide that could preclude operation to the year 2025.
(4) NON-FMP Equipment Installation: Provides installation support, such as Base Electronic System Engineering Plans (BESEP).

INSTALLING AGENTS: NISE East Charleston

COST ANALYSIS																				DATE September 1997
APPROPRIATION ACTIVITY OP,N - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT								P-1 ITEM NOMENCLATURE 310700 Shore LF/VLF Communications												SUBHEAD 52W4
			TOTAL COST IN THOUSANDS OF DOLLARS																	
			PY		FY 1995			FY 1996			FY 1997			FY 1998			FY 1999			
COST CODE	ELEMENT OF COST	ID CODE	QTY	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
Various	Prior Years																			
W4008	FVLF/LF UPGRADE	A									1	2,964	2,964	2	2,539	5,077				
W4011	REM	A												VAR		2,400	VAR		2,596	
W4012	VALUE	A															1	10,278	10,278	
W4776	NON-FMP INSTALLATION	A									VAR		96	VAR		94	VAR		154	
	TOTAL CONTROL												**3,060**			**7,571**			**13,028**	

PROCUREMENT HISTORY AND PLANNING

A. DATE February 1998

B. APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

C. P-1 ITEM NOMENCLATURE 310700 Shore LF/VLF Communications

SUBHEAD 52W4

COST CODE	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
W4008	FVLF/LF Upgrade	97	Various	C/FFP	Various		Jun-97	Jan-98	1	$2,964*	Yes	
		98	Various	C/FFP	Various		Nov-97	May-98	2	$2,539*	No	
W4012	VALUE	99	TBD				Oct-98	Oct-00	1	$10,278		

D. REMARKS

* Unit cost will vary upon site.

Feb-98

MODIFICATION TITLE: LF/VLF Upgrade/Shore LF/VLF (W4008)
MODELS OF SYSTEMS AFFECTED: Various
DESCRIPTION/JUSTIFICATION: Upgrades and replaces LF/VLF transmitter and antenna components worldwide.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment	4	7.0	1	0.5	1	1.4	1	3.0	2	5.0													9	16.9
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	4	0.06	1	0.27	1	0.06	0	0.00	3	0.10	0	0.00	0	0.00	0	0.00	0	0.0	0	0.0	0	0.0	9	0.49
PRIOR YR EQUIP	4	0.06																					4	0.06
FY 95 EQUIP			1	0.27																			1	0.27
FY 96 EQUIP					1	0.06																	1	0.06
FY 97 EQUIP																							0	0.00
FY 98 EQUIP									3	0.10													3	0.10
FY 99 EQUIP																							0	0.00
FY 00 EQUIP																							0	0.00
FY 01 EQUIP																							0	0.00
FY 02 EQUIP																							0	0.00
FY 03 EQUIP																							0	0.00
FY TC EQUIP																							0	0.00
TOTAL INSTALLATION COST		0.06		0.27		0.06		0.00		0.10		0.00		0.00		0.00		0.0		0.0		0.0	9	0.49
TOTAL PROCUREMENT COST		7.06		0.77		1.46		3.00		5.10		0.00		0.00		0.00		0.0		0.0		0.0		17.39

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 mos. PROCUREMENT LEADTIME: 2 mos.

CONTRACT DATES: FY 1996: Mar-96 FY 1997: Jun-97 FY 1998: Nov-97 FY 1999:

DELIVERY DATES: FY 1996: May-96 FY 1997: Jan-98 FY 1998: May-98 FY 1999:

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	6					1	1	1					
OUTPUT	6						1	1	1				

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT																		9
OUTPUT																		9

Feb-98

MODIFICATION TITLE: VALUE (VLF Ashore Lifetime Upkeep Effort) (W4012)
MODELS OF SYSTEMS AFFECTED: Various
DESCRIPTION/JUSTIFICATION: Corrects deficiencies in material condition and logistics support of existing VLF/LF transmitters

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment											1	10.3	1	19.1	1	16.5	1	18.9	1	3.8			5	68.6
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	1	0.2	1	0.2	2	0.4	5	0.99
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP																							0	0.0
FY 98 EQUIP																							0	0.0
FY 99 EQUIP															1	0.2							1	0.2
FY 00 EQUIP																	1	0.2					1	0.2
FY 01 EQUIP																			1	0.2			1	0.2
FY 02 EQUIP																					1	0.2	1	0.2
FY 03 EQUIP																					1	0.2	1	0.2
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.2		0.2		0.2		0.4	5	0.99
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.0		0.0		10.3		19.1		16.7		19.1		4.0		0.4		69.6

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 mos. PROCUREMENT LEADTIME: 24 mos.

CONTRACT DATES: FY 1996: FY 1997: FY 1998: FY 1999: Oct-98

DELIVERY DATES: FY 1996: FY 1997: FY 1998: FY 1999: Oct-00

INSTALLATION SCHEDULE:	PY	FY 97				FY 98				FY 99			
		1	2	3	4	1	2	3	4	1	2	3	4
INPUT													
OUTPUT													

INSTALLATION SCHEDULE:	FY 00				FY 01				FY 02				FY 03				TC	TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
INPUT					1				1				1				2	5
OUTPUT					1				1				1				2	5

UNCLASSIFIED
CLASSIFICATION

PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE
February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
310700 Shore LF/VLF Communications

SUBHEAD NO.
52W4

COST CODE	ITEM/MANUFACTURER	FY	SERV	PROC QTY	ACCEP PRIOR TO 1-Oct	BAL DUE AS OF 1-Oct	FISCAL YEAR 96												FISCAL YEAR 97												FISCAL YEAR 98									
							PY			CALENDAR YEAR 96									CALENDAR YEAR 97												CALENDAR YEAR 98									
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
W4008	Fixed FVLF/LF Upgrade	97		1																							A							1							
		98		1																												A						1			1
W4012	VALUE	99		1		1																																			

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST
ITEM NO. 104 PAGE NO. 6

UNCLASSIFIED
CLASSIFICATION

UNCLASSIFIED
CLASSIFICATION

PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
310700 Shore LF/VLF Communications

SUBHEAD NO.
52W4

COST CODE	ITEM/MANUFACTURER/ PROCUREMENTY YEAR	FISCAL YEAR	CARRY OVER	FISCAL YEAR 99												FISCAL YEAR 00												FISCAL YEAR 01												LATER
				CY98			CALENDAR YEAR 99											CALENDAR YEAR 00												CALENDAR YEAR 01										
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
W4008	Fixed FVLF/LF Upgrade	97																																						
		98																																						
W4012	VALUE	99		A																								1												
																																								0

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST
ITEM NO. 104 PAGE NO. 7

UNCLASSIFIED
CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
313000 SUBMARINE COMMUNICATIONS

SUBHEAD
52L0

	PY			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TO COMP	TOTAL
QUANTITY												
COST (in millions)	**$54.9**			**$28.1**	**$42.2**	**$64.6**	**$65.2**	**$66.3**	**$65.4**	**$74.8**	Continuing	Continuing

Prior Years encompass fiscal years FY 1990 to FY 1996.

PROGRAM COVERAGE: The Submarine Communications Program will incorporate a multiplicity of technical advances that address existing attack submarine communications problem areas (e.g. environmental demands on antenna equipment while at speed and depth; replacement of obsolete communications equipment; replacement of message handling equipment, and equipment that will enable submarines to better communicate with the Battle Group Fleet. The following is a list of equipment and a brief description of their functions for all equipment planned for procurement.

BASEBAND DISTRIBUTION SYSTEM - Consists of switching hardware and controller that will allow flexible distribution of baseband signals throughout the submarine Radio Room. The Baseband Switch is a Non-Developmental Item (NDI) that will automate SSN 688 class assets, provide remotely controlled switching operation, allow preset configurations for quick reaction times, reduce needed rack space, and recover fleet configuration control.

ANTENNA MODIFICATIONS - Modifications to antenna systems in order to provide Very Low Frequency (VLF) performance, Mid Frequency/High Frequency (MF/HF) effciency, and UHF DAMA and control unit reliablity. All SSN/SSBN classes are affected by these modifications.

TIME and FREQUENCY DISTRIBUTION SYSTEM - The TFDS provides time and frequency input to communications, electronic warfare, periscope, navigation, combat and ship control systems aboard SSN 688 class submarines. The TFDS hardware will be capable of automatic or manual selection of host system standards and Global Positioning Satellite (GPS) receivers.

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1998

APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	313000 SUBMARINE COMMUNICATIONS	52L0

OE - 538/BRC/MINI-DAMA ANTENNA GROUP (IMPROVED AN/BRA-34) - Provides SSN submarines with a mast mounted, multi-functional antenna to include High Frequency (HF) broadband and Fleet Satellit communications (FLTSATCOM) Demand Access Multiple Access (DAMA) operation. RDT&E Program Element - PEO604503N pertains.

SUBMARINE COMMUNICATIONS SUPPORT SYSTEM RADIO ROOM - The SCSS Radio Room will consist of an open system, multimedia, circuit sharing architecture that will serve as the shipboard automated communications control system. Procurement in this line is for the radio room communications racks, chassis, common power supplies and ancillary components required to integrate the Submarine's communication equipment.

JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM - JTIDS is an advanced information distribution system that provides secure, integrated communications, navigation and identification capabilities for application to military tactical users. The procurement of the Link-16 consists of the JTIDS terminal and the Command and Control Processor (C2P). The configuration for submarines will be different from surfac ships and will require additional engineering. Starting in FY 98 JTIDS will be replaced by the Multifunction Information Distribution System (MIDS).

SHF/EHF HIGH DATA RATE SATELLITE COMMUNICATIONS ANTENNAS (HDR) - The Submarine HDR antenna will provide submarines with antennas that have the bandwidth, gain, and flexibility to meet the stated COMSUBLANT/COMSUBPAC requirements for HDR communications in the SHF and EHF frequency. RDT&E (N) Program Element - PEO604503N pertains.

MULTIBAND ANTENNA - The Multiband Antenna will provide Pre-Planned Product Improvements (P3I) to the High Data Rate (HDR) SHF/EHF communications capability to the Submarine Force. The upgrade will provide the HDR antenna with the GBS capability.

SUBMARINE ANTENNA DISTRIBUTION SYSTEM (SADS) - The SADS program will replace the existing manually operated antenna RF patch panels. Manual patching prevents the rapid reconfiguration of communications circuits required to support submarine operations in a Joint or Battle Group environmant. The SADS will allow highly flexible and automated routing of signals and information between the radio room and various antenna systems. RDT&E Program Element - PEO604503N pertains.

MULTIFUNCTION INFORMATION DISTRIBUTION SYSTEM (MIDS) - The MIDS Low Volume Terminal (MIDS-LVT) is a Tactical Data Link Communications system that will provide a secure, high capacity, jam-resistant, lightweight, digital data and voice, communication and navigation system. (MIDS-LVT will be functionally and architecturally equivalent to the Joint Tactical Information Display System (JTIDS) and will have the same required capabilities as JTIDS). RDT&E Program Element - PEO604503N pertains.

DESIGN SERVICES ALLOCATION (DSA) - Design work and engineering associated with ship alterations.

COST ANALYSIS																				DATE September 1997
APPROPRIATION ACTIVITY OP,N - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT											**P-1 ITEM NOMENCLATURE** 3130000 SUBMARINE COMMUNICATIONS									**SUBHEAD** 52LO
			TOTAL COST IN THOUSANDS OF DOLLARS																	
			PY		**FY 1995**			**FY 1996**			**FY 1997**			**FY 1998**			**FY 1999**			
COST CODE	**ELEMENT OF COST**	**ID CODE**	**QTY**	**TOTAL COST**	**QTY**	**UNIT COST**	**TOTAL COST**	**QTY**	**UNIT COST**	**TOTAL COST**	**QTY**	**UNIT COST**	**TOTAL COST**	**QTY**	**UNIT COST**	**TOTAL COST**	**QTY**	**UNIT COST**	**TOTAL COST**	
L0027	BASEBAND SWITCH	A									14	551	7,714	12	465	5,578	8	511	4,088	
L0035	ANTENNA MODIFICATIONS	A									VAR		2,110	VAR		2,138	VAR		3,037	
L0078	T/F DISTRIBUTION SYSTEM	A									15	127	1,900	15	130	1,957	12	132	1,588	
L0080	OE-538/BRC/MINI-DAMA	B									1	2,450	2,450	3	4,450	13,351	13	598	7,779	
L0084	SCSS RADIO ROOM	A									VAR		4,279	VAR		3,123	VAR		2,199	
L0085	JTIDS/LINK - 16	A																		
L0086	SADS	B												1	1,140	1,140	9	338	3,045	
L0087	HIGH DATA RATE ANTENNA	B												1	7,231	7,231	10	2,858	28,576	
L0089	TRIDENT SCSS RADIO ROOM	A											3,000			400			1,792	
L0090	NAVTEX RECEIVERS	A																		
L0091	MIDS	B															5	579	2,895	
L0777	FMP INSTALL	A									VAR		6,625	VAR		6,630	VAR		8,822	
	DSA	A												VAR		620	VAR		762	
	TOTAL CONTROL												**28,078**			**42,168**			**64,583**	

1/ The amount identified against this cost element reflects total prior year funding associated with cost elements no longer financed in FY 1995 and beyond.

PROCUREMENT HISTORY AND PLANNING

A. DATE February 1998

B. APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

C. P-1 ITEM NOMENCLATURE 313000 SUBMARINE COMMUNICATIONS

SUBHEAD 52L0

COST CODE	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
L0027	BASEBAND SWITCH	97	L-3 Communications, NJ	C/FFP/OPT	SPAWAR		Jul-97	Dec-98	14	551,000	YES	N/A
		98	L-3 Communications, NJ	C/FFP/OPT	SPAWAR		Dec-97	May-98	12	465,000	YES	N/A
		99	L-3 Communications, NJ	C/FFP/OPT	SPAWAR		Dec-98	May-99	8	511,000	YES	N/A
L0078	T/F Distribution System	97	Brandywine Com., CA	C/FFP	SPAWAR		Apr-97	Dec-97	15	126,666	YES	N/A
		98	Brandywine Com., CA	C/FFP/OPT	SPAWAR		Dec-97	Mar-98	15	130,466	YES	N/A
		99	Brandywine Com., CA	C/FFP/OPT	SPAWAR		Dec-98	Mar-99	12	132,333	YES	N/A
L0080	OE-538/BRC/Mini-Dama	97	Sippican, MA	SS/FFP	SPAWAR		Aug-97	Aug-98	1	2,450,000	YES	N/A
		98	Sippican, MA	SS/FFP	SPAWAR		Dec-97	Dec-98	3	4,450,000	YES	N/A
		99	TBD	C/FFP/OPT	SPAWAR		Jun-99	Jun-00	13	589,333	YES	N/A
L0086	SADS	98	TBD	C/FFP	SPAWAR		Jun-98	Mar-99	1	1,140,000	YES	N/A
		99	TBD	C/FFP/OPT	SPAWAR		Dec-98	Sep-99	9	338,000	YES	N/A
L0087	HDA Antenna	98	Raytheon, MA	C/FFP/OPT	SPAWAR		Mar-98	Mar-99	1	7,231,000	YES	N/A
		99	Raytheon, MA	C/FFP/OPT	SPAWAR		Dec-98	Jan-00	10	2,858,000	YES	N/A
L0091	MIDS	99	TBD	C/FFP	SPAWAR		Jan-99	Nov-00	5	579,000	N/A	N/A

D. REMARKS

L0027 FY 99 Baseband switch unit cost includes P3I for procurements to maintain state of the art.

Feb-98

MODIFICATION TITLE: Baseband Switch (BBS) L0027
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: Installation of Baseband Switch

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment	1	3.4	3	3.5	12	6.7	14	7.7	12	5.6	8	4.1	8	4.4									58	35.4
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	1	1.1	1	1.1	2	1.0	2	4.4	10	5.7	15	6.1	15	6.1	12	4.6	0	0.0	0	0.0	0	0.0	58	30.1
PRIOR YR EQUIP	1	1.1																					1	1.1
FY 95 EQUIP			1	1.1	2	1.0																	3	2.1
FY 96 EQUIP							2	4.4	10	5.7													12	10.1
FY 97 EQUIP											14	5.7											14	5.7
FY 98 EQUIP											1	0.4	11	4.5									12	4.9
FY 99 EQUIP													4	1.6	4	1.5							8	3.1
FY 00 EQUIP															8	3.1							8	3.1
FY 01 EQUIP																							0	0.0
FY 02 EQUIP																							0	0.0
FY 03 EQUIP																							0	0.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		1.1		1.1		1.0		4.4		5.7		6.1		6.1		4.6		0.0		0.0		0.0		30.1
TOTAL PROCUREMENT COST		4.5		4.6		7.7		12.1		11.3		10.2		10.5		4.6		0.0		0.0		0.0		65.5

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 12 mos. PROCUREMENT LEADTIME: 12 mos.

CONTRACT DATES: FY 1996: FY 1997: Jul-97 FY 1998: Dec-97 FY 1999: Dec-98

DELIVERY DATES: FY 1996: FY 1997: Dec-98 FY 1998: May-98 FY 1999: May-99

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	4				2	2	3	3	2	3	4	4	4
OUTPUT	4				1	2	3	3	3	2	4	4	4

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT	3	4	4	4	3	3	3	3										58
OUTPUT	3	4	4	4	3	3	3	3	1									58

* Install cost for FY97 includes NRE, Kit development, install cost, and management cost.

Feb-98

MODIFICATION TITLE: Time & Frequency Distribution System (TFDS) L007E
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: Installation of Time & Frequency Distribution System

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment						0.3	15	1.9	15	2.0	12	1.6	14	1.9	4	0.6					2	0.2	62	8.5
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	15	0.4	15	0.5	12	0.4	14	0.4	4	0.1	0	0.0	2	0.06	62	1.9
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP									15	0.4													15	0.4
FY 98 EQUIP											15	0.5											15	0.5
FY 99 EQUIP													12	0.4									12	0.4
FY 00 EQUIP															14	0.4							14	0.4
FY 01 EQUIP																	4	0.1					4	0.1
FY 02 EQUIP																							0	0.0
FY 03 EQUIP																							0	0.0
FY TC EQUIP																					2	0.06	2	0.1
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.4		0.5		0.4		0.4		0.1		0.0		0.06		1.86
TOTAL PROCUREMENT COST		0.0		0.0		0.3		1.9		2.4		2.1		2.3		1.0		0.1		0.0		0.26		10.36

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 4 Months PROCUREMENT LEADTIME: 60 Days

CONTRACT DATES: FY 1996: FY 1997: Apr-97 FY 1998: Dec-97 FY 1999: Dec-98

DELIVERY DATES: FY 1996: FY 1997: Dec-97 FY 1998: Mar-98 FY 1999: Mar-99

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT							5	5	5	3	4	4	4
OUTPUT							5	5	5	3	4	4	4

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT	3	3	3	3	2	4	4	4	2	2							2	62
OUTPUT	3	3	3	3	2	4	4	4	2	2							2	62

Feb-98

MODIFICATION TITLE: OE-538/BRC L0800
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: Installation of OE-538/BRC/Mini-Dama

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E PEO604503N Project X0742						1.7		0.6																
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment							1	0.70	3	10.32	13	7.78	13	7.85	14	8.71	7	4.5			16	12.0	67	51.8
Equipment Nonrecurring								1.00		1.20														
Engineering Change Orders																								
Data																								
Training Equipment								0.40		0.60														
Support Equipment										0.40														
Other								0.35		0.48														
Interm Contractor Support										0.35														
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.00	1	0.44	3	0.64	12	1.00	13	1.00	14	1.0	7	0.6	16	1.5	66	6.2
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP									1	0.44													1	0.4
FY 98 EQUIP											3	0.64											3	0.6
FY 99 EQUIP													12	1.00									12	1.0
FY 00 EQUIP															13	1.00							13	1.0
FY 01 EQUIP																	14	1.0					14	1.0
FY 02 EQUIP																			7	0.6			7	0.6
FY 03 EQUIP																							0	0.0
FY TC EQUIP																					16	1.5	16	1.5
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.00		0.44		0.64		1.00		1.00		1.0		0.6		1.5		6.16
TOTAL PROCUREMENT COST		0.0		0.0		0.0		2.45		13.79		8.42		8.85		9.71		5.5		0.6		13.5		57.97

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 12 mos. PROCUREMENT LEADTIME: 12 mos.

CONTRACT DATES: FY 1996: FY 1997: Aug-97 FY 1998: Dec-97 FY 1999: Jun-99

DELIVERY DATES: FY 1996: FY 1997: Aug-98 FY 1998: Dec-98 FY 1999: Jun-00

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT									1		3		
OUTPUT									1		3		

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT			6	6	1	4	4	4	1	4	4	5	1	4	2		16	66
OUTPUT			6	6	0	5	4	4		5	4	4	2	3	3		16	66

* Install cost in FY98 and FY99 are higher due to NRE cost and anticipated learning curve.
**FY98 equipment cost includes $8M budget adjustment for Mini-Dama.
No install in FY00 due to the procurement of (1) rotatable pool asset.

P-1 SHOPPING LIST
ITEM NO. 105 PAGE NO. 7

Feb-98

MODIFICATION TITLE: JTIDS/LINK-16
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: Installation of JTIDS/LINK-16

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment			10	7.2																			10	7.2
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	10	1.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	10	1.5
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP							10	1.5															10	1.5
FY 96 EQUIP																							0	0.0
FY 97 EQUIP																							0	0.0
FY 98 EQUIP																							0	0.0
FY 99 EQUIP																							0	0.0
FY 00 EQUIP																							0	0.0
FY 01 EQUIP																							0	0.0
FY 02 EQUIP																							0	0.0
FY 03 EQUIP																							0	0.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		0.0		0.0		1.5		0.0		0.0		0.0		0.0		0.0		0.0		0.0		1.5
TOTAL PROCUREMENT COST		7.2		7.2		0.0		1.5		0.0		0.0		0.0		0.0		0.0		0.0		0.0		8.7

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PROCUREMENT LEADTIME:

CONTRACT DATES: FY 1996: FY 1997: N/A FY 1998: N/A FY 1999: N/A

DELIVERY DATES: FY 1996: FY 1997: N/A FY 1998: N/A FY 1999: N/A

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT			4	6									
OUTPUT			2	4	4								

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT																		10
OUTPUT																		10

Feb-98

MODIFICATION TITLE: Submarine Antenna Distribution System (SADS) L0086
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: Installation of Submarine Antenna Distribution System

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E PEO604503N Project X0742						1.3		1.8		1.8														
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment									1	1.1	9	3.0	6	2.0	6	2.0	10	3.4	13	4.6	18	6.3	63	22.5
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.5	9	2.8	6	1.8	6	1.9	10	3.0	31	9.9	63	19.9
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP																							0	0.0
FY 98 EQUIP											1	0.5											1	0.5
FY 99 EQUIP													9	2.8									9	2.8
FY 00 EQUIP															6	1.8							6	1.8
FY 01 EQUIP																	6	1.9					6	1.9
FY 02 EQUIP																			10	3.0			10	3.0
FY 03 EQUIP																					13	4.1	13	4.1
FY TC EQUIP																					18	5.8	18	5.8
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.0		0.5		2.8		1.8		1.9		3.0		9.9		19.9
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.0		1.1		3.5		4.8		3.8		5.3		7.6		16.2		42.3

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 4 mos. PROCUREMENT LEADTIME: 9 mos.

CONTRACT DATES: FY 1996: FY 1997: N/A FY 1998: Jun-98 FY 1999: Dec-98

DELIVERY DATES: FY 1996: FY 1997: N/A FY 1998: Mar-99 FY 1999: Sep-99

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT											1		
OUTPUT												1	

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT	3	3	2	1	2	3	1		2	3	1		2	2	3	3	31	63
OUTPUT	3	3	2	1	2	3	1		2	3	1		2	2	3	3	31	63

Feb-98

MODIFICATION TITLE: High Data Rate Antenna (HDR) L0087
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: Installation of High Data Rate Antenna

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E PEO604503N Project X0742						13.2		6.6		1.3														
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
									1	7.2	10	28.6	11	20.3	14	26.0	13	26.7	11	21.2	0	0.0	60	130.0
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.1	9	8.3	11	9.8	13	11.1	14	11.6	12	9.9	60	51.8
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP																							0	0.0
FY 98 EQUIP											1	1.10											1	1.1
FY 99 EQUIP													9	8.3	1	0.9							10	9.2
FY 00 EQUIP															10	8.9	1	0.8					11	9.7
FY 01 EQUIP																	12	10.3	2	1.7			14	12.0
FY 02 EQUIP																			12	9.9	1	0.8	13	10.7
FY 03 EQUIP																					11	9.1	11	9.1
FY TC EQUIP																						0.0	0	0.0
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.0		1.1		8.3		9.8		11.1		11.6		9.9		181.8
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.0		7.2		28.6		20.3		26.0		26.7		21.2		0.0		130.0

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 4 mos. PROCUREMENT LEADTIME: 14 mos.

CONTRACT DATES: FY 1996: N/A FY 1997: N/A FY 1998: Mar-98 FY 1999: Dec-98

DELIVERY DATES: FY 1996: N/A FY 1997: N/A FY 1998: Mar-99 FY 1999: Jan-00

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT													1
OUTPUT													1

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT		3	3	3	2	3	3	3	2	4	3	4	3	4	4	3	12	60
OUTPUT		1	3	3	3	2	3	3	3	2	4	4	3	3	4	4	14	60

*FY98 and FY99 per contract include NRE in Unit price.

Feb-98

MODIFICATION TITLE: TRIDENT SCSS Radio Room L0089
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: Installation of TRIDENT SCSS Radio Room

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E PEO604503N Project X1411								0.7																
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment							VAR	3.0	VAR	0.4	VAR	1.8							3	13.0			VAR	18.2
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	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	0.0	0	0.0
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP																							0	0.0
FY 98 EQUIP																							0	0.0
FY 99 EQUIP											VAR	0.0											VAR	0.0
FY 00 EQUIP																							0	0.0
FY 01 EQUIP																							0	0.0
FY 02 EQUIP																							0	0.0
FY 03 EQUIP																							0	0.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
TOTAL PROCUREMENT COST		0.0		0.0		0.0		3.0		0.4		1.8		0.0		0.0		0.0		13.0		0.0		18.2

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PROCUREMENT LEADTIME:

CONTRACT DATES: FY 1996: FY 1997: N/A FY 1998: N/A FY 1999:

DELIVERY DATES: FY 1996: FY 1997: N/A FY 1998: N/A FY 1999:

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT													
OUTPUT													

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT																		0
OUTPUT																		0

Feb-98

MODIFICATION TITLE: Multifunction Information Distribution System (MIDS) L0091
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: Installation of Multifunction Information Distribution System (MIDS) L0091

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E PEO604503N Project X1411						0.4		0.4		1.4		2.8												
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment											5	2.9	12	4.6	14	3.4	14	3.8	12	3.3			57	18.0
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	0.8	12	0.8	14	0.8	26	1.7	57	4.2
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP																							0	0.0
FY 98 EQUIP																							0	0.0
FY 99 EQUIP															5	0.8							5	0.8
FY 00 EQUIP																	12	0.8					12	0.8
FY 01 EQUIP																			14	0.8			14	0.8
FY 02 EQUIP																					14	0.9	14	0.9
FY 03 EQUIP																					12	0.8	12	0.8
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.8		0.8		0.8		1.7		4.2
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.0		0.0		2.9		4.6		4.2		4.6		4.1		1.7		22.2

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 12 mos. PROCUREMENT LEADTIME: 22 mos.

CONTRACT DATES: FY 1996: FY 1997: N/A FY 1998: N/A FY 1999: Jan-99

DELIVERY DATES: FY 1996: FY 1997: N/A FY 1998: N/A FY 1999: Nov-00

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT													
OUTPUT													

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT					5				12				14				26	57
OUTPUT					2	2	1		4	4	4		4	4	6		26	57

UNCLASSIFIED
CLASSIFICATION

PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE
February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
313000 SUBMARINE COMMUNICATIONS

SUBHEAD NO.
52L0

COST CODE	ITEM/MANUFACTURER	FY	SERV	PROC QTY	ACCEP PRIOR TO 1-Oct	BAL DUE AS OF 1-Oct	FISCAL YEAR 96												FISCAL YEAR 97												FISCAL YEAR 98								
							PY95			CALENDAR YEAR 96									CALENDAR YEAR 97												CALENDAR YEAR 98								
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	Baseband Switch	97		14		14																						A					4	4	2	2	2					
		98		12		12																											A					**2**	**2**	**2**	**2**	**2**
		99		8		8																																				
L0078	T/F Distribution System	97		15		15																			A								3	6	6							
		98		15		15																											A			5	5	5					
		99		12		12																																				
L0080	OE-538/BRC/Mini Dama	97		1		1																							A												1	
		98		3		3																											A									
		99		13		13																																				
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

NAVMAT FORM 7110/4 (REVISED 11/77)

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UNCLASSIFIED
CLASSIFICATION

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CLASSIFICATION

PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE
February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
313000 SUBMARINE COMMUNICATIONS

SUBHEAD NO.
52L0

COST CODE	ITEM/MANUFACTURER/ PROCUREMENTY YEAR	FISCAL YEAR	CARRY OVER	FISCAL YEAR 99												FISCAL YEAR 00												FISCAL YEAR 01												LATER
				CY98			CALENDAR YEAR 99												CALENDAR YEAR 00												CALENDAR YEAR 01									
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
L0027	Baseband Switch	97	0																																					
		98	2	2																																				
		99	8			A					2	2	2	2																										
L0078	T/F Distribution System	97																																						
		98																																						
		99	12			A			4	4	4																													
L0080	OE-538/BRC/Mini-Dama	97																																						
		98	3			2	1																																	
		99	13									A												2	2	2	2	2	2	1										
																																								0
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

NAVMAT FORM 7110/4 (REVISED 11/77)

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UNCLASSIFIED
CLASSIFICATION

UNCLASSIFIED
CLASSIFICATION

PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE: February 1998

APPROPRIATION/BUDGET ACTIVITY: OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE: 313000 SUBMARINE COMMUNICATIONS

SUBHEAD NO.: 52L0

COST CODE	ITEM/MANUFACTURER	FY	SERV	PROC QTY	ACCEP PRIOR TO 1-Oct	BAL DUE AS OF 1-Oct	FISCAL YEAR 96												FISCAL YEAR 97												FISCAL YEAR 98											
							PY			CALENDAR YEAR 96									CALENDAR YEAR 97												CALENDAR YEAR 98											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
L0086	SADS	98		1		1																																	A			
		99		9		9																																				
L0087	HDA Antenna	98		1		1																														A						
		99		10		10																																				
L0091	MIDS	99		5		5																																				
						0																																				
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

NAVMAT FORM 7110/4 (REVISED 11/77)

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UNCLASSIFIED
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UNCLASSIFIED
CLASSIFICATION

PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE
February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
313000 SUBMARINE COMMUNICATIONS

SUBHEAD NO.
52L0

COST CODE	ITEM/MANUFACTURER/ PROCUREMENTY YEAR	FISCAL YEAR	CARRY OVER	FISCAL YEAR 99												FISCAL YEAR 00										FISCAL YEAR 01												LATER
				CY98			CALENDAR YEAR 99											CALENDAR YEAR 00										CALENDAR YEAR 01										
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
L0086	SADS	98	1						1																														
		99	9			A									1	1	1	1	1	1	1	1	1																	
L0087	HDA Antenna	98	1						1																														
		99	10			A													1	1	1	1	1	1	1	1	1	1												
L0091	MIDS	99	5				A																						1	1	1	1	1							
																																							0
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

***BBS deliveries are occuring simultaneously because of a late contract award in FY96 which delayed FA testing. FY97 award was delayed due to prior years actions.**

NAVMAT FORM 7110/4 (REVISED 11/77)

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BUDGET ITEM JUSTIFICATION SHEET

DATE February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
314700 Submarine LF/VLF VME Receiver

SUBHEAD
52LF (XX)

	PY			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TO COMP	TOTAL
QUANTITY												
COST (in millions)	**$0.0**			**$0.0**	**$7.5**	**$17.2**	**$19.8**	**$17.9**	**$3.7**	**$0.5**	**$0.0**	**$66.5**

PROGRAM COVERAGE: The Submarine Low Frequency (LF) / Very Low (VLF) Modular (VME) bus Receiver (SLVR) is an open architecture hybrid system consisting of Commercial Off The Shelf (COTS), Non-Developmental Items (NDI) and custom components. The SLVR design shall maximize the simplicity of implementing future technology upgrades through the incorporation of new generation VMEbus modules and the use of Navy Standard and other available software to the maximum extent possible. The SLVR system will replace antiquated and limited capability LF/VLF receivers on TRIDENT and SSN (688 / Seawolf / New Attack) submarines and at selected shore sites. It will receive U.S. and joint NATO LF/VLF tactical and strategic message traffic in support of Joint Strike, Surveillance, SEW/Intelligence, and Littoral Warfare mission areas, as well as the Strategic Deterrence mission area. SLVR is a Mission Critical piece of C3I equipment onboard submarines.

COST ANALYSIS																			DATE September 1997
APPROPRIATION ACTIVITY OP,N - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT								P-1 ITEM NOMENCLATURE 314700 Submarine LF/VLF VME Receiver											SUBHEAD 52LF (XX)
			TOTAL COST IN THOUSANDS OF DOLLARS																
			PY		FY 1995			FY 1996			FY 1997			FY 1998			FY 1999		
COST CODE	ELEMENT OF COST	ID CODE	QTY	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
LF001	Submarine LF/VLF VME Reciever	B												10	747	7,465	44	377	16,580
LF776	Non FMP Installation (Shore)	A																	276
LF777	FMP Installation (Ships)	A																	315
	TOTAL CONTROL			**0**			**0**			**0**			**0**			**7,465**			**17,171**

PROCUREMENT HISTORY AND PLANNING

A. DATE
February 1998

B. APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

C. P-1 ITEM NOMENCLATURE
314700 Submarine LF/VLF VME Receiver

SUBHEAD
52LF (XX)

COST CODE	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
LF001	Submarine LF/VLF VME Reciever	98	TBD	C/FFP	SPAWAR	Sep-97	Apr-98	Mar-99	10	$747*	No	
		99	TBD	FFP/OPT	SPAWAR	**	Oct-98	Jul-99	44	377	No	

D. REMARKS
(*) Unit cost includes nonrecurring
(**) Option exercised in October of the Fiscal Year.

Feb-98

MODIFICATION TITLE: SLVR (LF001)
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: Non- FMP Shore Installations

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment									10	7.5	3	0.9	1	0.4	13	5.4							27	14.2 *
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	10	.3	3	0.2	1	0.1	13	.5	0	0.0	0	0.0	27	1.0
PRIOR YR EQUIP																							0	.0
FY 95 EQUIP																							0	.0
FY 96 EQUIP																							0	.0
FY 97 EQUIP																							0	.0
FY 98 EQUIP											10	.3											10	.3
FY 99 EQUIP													3	0.2									3	.2
FY 00 EQUIP															1	0.1							1	.1
FY 01 EQUIP																	13	.5					13	.5
FY 02 EQUIP																							0	.0
FY 03 EQUIP																							0	.0
FY TC EQUIP																							0	.0
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.0		.3		0.2		0.1		.5		0.0		0.0		1.0
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.0		7.5		1.2		0.6		5.5		.5		0.0		0.0		15.2

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PROCUREMENT LEADTIME:

CONTRACT DATES: FY 1996: FY 1997: N/A FY 1998: Apr-98 FY 1999: Oct-98

DELIVERY DATES: FY 1996: FY 1997: N/A FY 1998: Mar-99 FY 1999: Jul-99

INSTALLATION SCHEDULE:	PY	FY 97 1	2	3	4	FY 98 1	2	3	4	FY 99 1	2	3	4
INPUT												6	4
OUTPUT												6	4

INSTALLATION SCHEDULE:	FY 00 1	2	3	4	FY 01 1	2	3	4	FY 02 1	2	3	4	FY 03 1	2	3	4	TC	TOTAL
INPUT		3					1		6	7								27
OUTPUT		3					1		6	7								27

* This total meets inventory objective.

Feb-98

MODIFICATION TITLE: SLVR (LF001)
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: FMP Ship Installations

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment											41	15.7	47	17.6	14	5.1							102	38.4	*
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	10	.3	40	1.5	46	1.5	6	.8	0	0.0	0	0.0	102	4.1	
PRIOR YR EQUIP																							0	.0	
FY 95 EQUIP																							0	.0	
FY 96 EQUIP																							0	.0	
FY 97 EQUIP																							0	.0	
FY 98 EQUIP																							0	.0	
FY 99 EQUIP											10	.3	31	1.1									41	1.4	
FY 00 EQUIP													9	.4	38	1.1							47	1.5	
FY 01 EQUIP															8	.3	6	.8					14	1.1	
FY 02 EQUIP																							0	.0	
FY 03 EQUIP																							0	.0	
FY TC EQUIP																							0	.0	
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.0		.3		1.5		1.5		.8		0.0		0.0		4.1	
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.0		0.0		16.0		19.1		6.6		0.8		0.0		0.0		42.5	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PROCUREMENT LEADTIME:

CONTRACT DATES: FY 1996: N/A FY 1997: N/A FY 1998: N/A FY 1999: Oct-98

DELIVERY DATES: FY 1996: N/A FY 1997: N/A FY 1998: N/A FY 1999: Jul-99

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT													10
OUTPUT													10

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT	18	3	7	12	16	9	9	12	6									102
OUTPUT	18	3	7	12	16	9	9	12	6									102

* This total meets inventory objective.

UNCLASSIFIED
CLASSIFICATION

PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
314700 Submarine LF/VLF VME Receiver

SUBHEAD NO.
52LF (XX)

COST CODE	ITEM/MANUFACTURER	FY	SERV	PROC QTY	ACCEP PRIOR TO 1-Oct	BAL DUE AS OF 1-Oct	FISCAL YEAR 96												FISCAL YEAR 97												FISCAL YEAR 98											
							PY			CALENDAR YEAR 96									CALENDAR YEAR 97												CALENDAR YEAR 98											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
LF001	SUB LV/VLF REC.	98		10		10																															A					
		99		44		44																																				
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

NAVMAT FORM 7110/4 (REVISED 11/77)

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PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE
February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
314700 Submarine LF/VLF VME Receiver

SUBHEAD NO.
52LF (XX)

COST CODE	ITEM/MANUFACTURER/ PROCUREMENTY YEAR	FISCAL YEAR	CARRY OVER	FISCAL YEAR 99												FISCAL YEAR 00												FISCAL YEAR 01												LATER
				CY98			CALENDAR YEAR 99									CALENDAR YEAR 00												CALENDAR YEAR 01												
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
LF001	SUB LV/VLF REC.	98	10						2	2	2	2	2																											
		99	44	A									4	5	5	5	6	3	3	3	2	3	2	3																	
																																								0
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

NAVMAT FORM 7110/4 (REVISED 11/77)

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BUDGET ITEM JUSTIFICATION SHEET

DATE February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
SATCOM Ship Terminals 321000

SUBHEAD
52NN

	PY			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TO COMP	TOTAL
QUANTITY												
COST (in millions)	**$1,213.7**			**$131.7**	**$108.8**	**$145.2**	**$182.1**	**$151.5**	**$192.1**	**$197.7**	**Continuing**	**Continuing**

PROGRAM COVERAGE: The SATCOM Ship Terminals P-1 line provides funds for procurement of shipboard terminal equipment for ship-to-ship, ship-to-shore and ship-to-aircraft tactical communications via earth orbiting relay satellites in the ultra high frequency (UHF), super high frequency (SHF), and extremely high frequency (EHF) bands. This includes radio frequency (RF) equipment and baseband equipment assembled and grouped into systems and subsystems structured to address specific naval communications requirements. These systems provide processors and peripheral equipment that control the RF links for message traffic, direct data transfer and secure voice communications. They are selected and oriented by communications traffic levels, types of communications and operational missions. These procurements are scheduled to meet the satellite communications requirements established by the CNO in the Fleet Communications Planning and Programming documents. These programs are part of the Joint Maritime Communications Strategy (JMCOMS) to provide a communications architecture that will provide seamless, rapid and reliable switching and transfer of large volumes of information (voice, video, data or imagery).

JUSTIFICATION OF BUDGET YEAR REQUIREMENTS:

MINI-DAMA: Demand Assigned Multiple Access (DAMA) quadruples the UHF satellite channel capacity through multiplexing, thus providing adequate satellite access to meet the present user requirements without increasing the number of satellites in the constellation. The shipboard DAMA system consists of multiplexers, control monitor groups, and radios. Equipment will be installed on all SATCOM equipped ships during regular overhaul, restricted availability and by alteration installation teams (AIT). Mini-DAMA is the second phase of the UHF DAMA program. It provides a miniaturized version of the TD-1271B/U as well as incorporating UHF SATCOM and Line of site (LOS) transceiver capability. Mini-DAMA also uses 5 kHz or 25 kHz satellite channels and can operate in DAMA or non-DAMA modes. The Mini-DAMA configuration was transitioned from MIL-SPEC to commercial open system architecture. The production variant will be delivered with either a one or a two channel configuration. The cost is essentially the same and references to quantities in this budget represent the number of channels, whether they are in one chassis or two. The standard submarine configuration requires two channels whether with one chassis or two. The FY96 and FY97 funds procure AN/USC-42(V)1 submarine transceivers and ancillary interface equipment, Pre Faulted Modules for training schools, Test Program Sets, documentation and continued production support.

BUDGET ITEM JUSTIFICATION SHEET (Continuation)		DATE February 1998
APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	P-1 ITEM NOMENCLATURE SATCOM Ship Terminals 321000	SUBHEAD Subhead

SI COMMS: (TACINTEL II and SCI/TACINTEL II+/ADNS) The TACINTEL II+ has been designated as an evolutionary acquisition program allowing for continued growth and expansion paralleling technological changes. TACINTEL II+ provides the mechanism for phased implementation of both planned improvements and those which surface through advancing technology. Funding identified in FY96 provided for continued procurement of the TAC-4 workstation as the system processor. The premise of utilizing Non Developmental Items (NDI), Commercial off the Shelf (COTS), Government off the Shelf (GOTS) and existing systems to meet the requirements for Integrated Special Intelligence (SI) Communications requirements will continue to be followed; however, the cornerstone of this program is the versatility and growth potential of the TAC-X and associated Versa Module Eurocard (VME) chassis. Prior year's funds provided two tiers of growth. First, it continued fielding of the TAC-3 and TAC-4 workstations. This is a key facet of realizing the Joint Maritime Communications Strategy (JMCOMS)/Automated Digital network Systems (ADNS) architecture in that a common processor will have been fielded allowing for expanded capabilities. This includes the TACINTEL II and INTELNET portions of TACINTEL II+. Funds in FY97 through FY99 will continue to procure TAC-X ancillary equipment to provide the full capability of SI-Communications and implementation of JMCOMS/ADNS by the end of the century. The gradual upgrade of hardware will support the improved system capability of the new software being developed with RDT&E funds and infuse new technology into the Fleet.

5/25 KHz SATCOM : Numerous pieces of SATCOM terminal equipment are required to satisfy special communications needs. This line includes procurement of off-the-shelf non-developmental Items (NDI) for replacement of obsolete satellite communications terminals and baseband equipment. FY96 and FY97 funds include procurement of UHF radio transceivers with DAMA capability and antenna systems for mine warfare platforms (MHC and MCM ships). FY97 funds also procure modification kits for upgrading AN/WSC-3 transceivers and OE-82 antennas to meet a 5KHz capability and provides funds for procurement of enhanced manpack UHF transceivers (EMUT) from the Army. FY98 funds begin procurement of the NDI joint modular radio (JTR) follow-on to the AN/WSC-3 transceivers in support of the Slice program. Slice will provide the framework for meeting the planned future SATCOM communications requirements in the 0 to 2 GHz spectrum.

EHF TERMINALS: This program provides for the acquisition of the Navy's EHF Satellite Communications Program (NESP) terminals in four semi-concurrent phases. Phase I of the NESP program provides Low Data Rate (LDR) jam resistant, low probability of intercept EHF SATCOM terminals for submarines, surface ships, and shore stations in the electromagnetic threat environment projected into the next decade. This requirement is contained in the NESP NDCP dated Apr 89 and the JROC validated Milstar ORD of Jun 92. There is a requirement to procure 319 operational ship and submarine terminals (OPN and SCN), plus five life cycle support systems already bought. This requirement was recently updated in OPNAV letter Ser N631D/7U560382 of 18 Apr 97.

Phase II of the NESP program procures Navy EHF Communications Controllers (NECCs) as part of the ADNS strategy to provide for the exchange of computer-to-computer tactical communications over the survivable EHF satellite links. NECC provides for network management; multiplexing and channel sharing; resource management; communications management and planning; network control and monitoring; and communications protocols such as circuit switching and packet switching. NECC requirements are outlined in the NESP NDCP dated Apr 89 and must be fully fielded with deploying battle groups to support tactical information exchange over EHF SATCOM.

BUDGET ITEM JUSTIFICATION SHEET (Continuation)		DATE February 1998
APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	P-1 ITEM NOMENCLATURE SATCOM Ship Terminals 321000	SUBHEAD Subhead

Phase III of the NESP program provides for the procurement of Full Milstar LDR Operational Capabilities (FMLOC). FMLOC efforts include Agile Beam Management (ABM), Over-the-Air-Rekey (OTAR), and In-Band Control (IBC) capabilities required by the JROC validated Milstar ORD. Additionally, the Processor Upgrade Program (PUP) must be implemented to support the terminal throughput and memory requirements of the Phase III capabilities. All of these Phase III efforts will provide essential EHF operational communications capabilities with the current Milstar satellites. Similarly, IBCs will provide interoperable voice communications on all EHF satellites (Milstar, UHF Follow-On (UFO), and FLTSAT EHF Package (FEP)).

Phase IV of the NESP program consists of a Medium Data Rate (MDR) capability which will provide the only protected (jam resistant and low probability of intercept/detection) MDR communications from 4.8 kilobits per second (Kbps) to 1.544 megabits per second (Mbps) to all major fleet combatants with Milstar Satellites 3-6. MDR capability for submarines will migrated to a combined EHF/SHF terminal. To meet the Navy's requirement for MDR capable terminals, MDR appliqués will be procured and retrofitted into existing LDR terminals and the balance of the requirements will be procured as part of a combined terminal follow-on contract beginning in FY 98. Follow-on terminals will also have Phase III FMLOC capabilities incorporated into their baseline. The requirement for MDR is outlined in the JROC validated Milstar ORD and must be fielded by FY 99 in order to support the launch schedule of the first Milstar II satellite. By CNO N6B paper dated 16 Sept 96, the Program Office was directed to accelerate the MDR upgrade program to meet fleet needs. Prior to receiving the MDR appliqué, existing NESP terminals must have Phase III upgrades due to the processing throughput and memory requirements of MDR.

FY 97 funds will be used to continue the procurement of NECCs and FMLOC equipment. FY 98 funds will be used to procure follow-on NDI models and initial MDR retrofit appliqués. FY98 also provides for the continued procurement of NECCs and FMLOC equipment. FY 99 funds will be used to continue the accelerated procurement of MDR appliqués as well as required NECC and FMLOC equipment. These procurements will continue in FY00. Follow-on terminal production procurement will start in FY99 and continue into FY00 and beyond.

SHF SHIP SYSTEMS: This line provides SHF Ship based equipment for high data rate communications with Fleet units via the Defense Satellite Communication System (DSCS) satellites. The procurements and installations are being conducted in three concurrent steps. Step 1 provides backfit kits and additional seven foot antennas and step 2 provides new AN/WSC-6(V)X full up terminals. Step 1 initial operational capability (IOC) is FY97, step 2 IOC is FY98. Full operational capability (FOC) for Step 1 is scheduled in FY00. FOC for Step 2 is scheduled in FY05. FY96 funds procured mod kits and miscellaneous equipment to modify four AN/WSC-6(V)4 terminals to allow dual channel capability. Existing Navy and Army contracts were used. A new production contract will be awarded in FY97 for SHF AN/WSC-6(V)X terminals including non-recurring costs, first article testing and delivery of three units. FY97 funds also procure five seven foot antennas to replace existing four foot antennas and will procure mod kits for installation on 6 AN/WSC-6(V)2 and AN/WSC-6(V)4 terminals. The seven foot antenna procurement is a separate contract; the mod kits are bought on the antenna contract and two existing Army and NRAD contracts. FY98 and FY99 funds procure additional AN/WSC-6(V)X terminals, AN/WSC-6(V)2 and AN/WSC-6(V)4 mod kits, additional seven foot antennas and production support.

BUDGET ITEM JUSTIFICATION SHEET (Continuation)

DATE February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
SATCOM Ship Terminals 321000

COMMERCIAL SATELLITES: Lessons learned from Desert Storm documented the necessity of an alternate commercial communications service for logistics and operational support requirements to reduce the saturation of communications on the military tactical satellites. ASD(C3I) in a letter of 8 Nov 1993, directed the use of commercial satellite (COMMERSAT) to augment current and future MILSATCOM systems. This will relieve the congestion on military tactical satellite communications systems while enhancing the overall Navy tactical communications capacity and reduce the competition with tactical data on the limited tactical satellite assets. The COMMERSAT program will use commercial off-the-shelf (COTS)/non-developmental item (NDI) equipment, software, and service with minimal adaptation for the naval environment. Variants of the commercially available INMARSAT terminals will be procured in the next few years. The various types are required to satisfy different requirements on flagships, aircraft carriers, amphib ships and smaller ships. There will also be INMARSAT "B" upgrade mod kits to modify some of the earlier "A" versions. The FY96 procurements included INMARSAT terminals and commercial C and Ku wide band SATCOM terminals in support of Challenge Athena demonstration. A Congressional plus-up in FY97 upgraded one C/Ku wide band terminal, installed one existing terminal, and procured and installed three major shipboard sponsons and six suites of ancillary baseband equipment. FY98 and FY99 funds will continue procurement of C and Ku wide band SATCOM Terminals, components, supporting ancillary hardware related to Automated Digital Multiplexing System (ADMS), INMARSAT terminals, production support and Personal Communications Systems (PCS), portable satellite radios. Afloat Telecommunications Service (ATS) is planned for implementation beginning FY99 to satisfy Fleet wide band requirements.

Global Broadcast Service (GBS): This is the Navy ship portion of the joint program with the Air Force as Executive Service. The GBS will augment other Military Satellite Communications (MILSATCOM) systems and provide a continuous, high speed, one way information flow of high volume data to units ashore, afloat or special operations. GBS will support routine operations, training and military exercises, special activities, crises, situational awareness, weapons targeting, reconnaissance and the transition to and conduct of opposed operations short of nuclear war. GBS will provide the capability of quickly disseminating large information products to various joint and small combat and combat support elements. FY97, FY98, and FY99 funds procure receiving equipment in various configurations customized to each type ship for Phase II of the GBS program to be used with UHF follow-on Satellite numbers 8, 9, and 10. For Ship and submarine procurements, antennas and ancillary equipment will be procured through a SPAWAR contract. Shipboard and receive broadcast management equipment will be procured through an Air Force contract. An Operational Requirements Document (ORD) was signed on 30 April 97.

INSTALLATION OF EQUIPMENT: This subline provides funding to shipyards and alteration installation teams (AIT) at Navy field activities for installation of equipment procured for ships and submarines.

EXPLANATION OF PROGRAM CHANGE: N/A

BUDGET ITEM JUSTIFICATION SHEET (Continuation)

DATE	February 1998

APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE		SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	SATCOM Ship Terminals	321000	Subhead

Listed below are the costs (i.e. hardware plus installation) for equipment being procured in this line item that have associated installation costs budgeted:

EQUIPMENT	FY97	FY98	FY99	FY00	FY01	FY02	FY03
UHF Terminals	37.9	34.0	26.4	37.3	23.1	30.3	29.3
SHF Terminals	19.0	14.9	28.4	35.3	39.1	68.3	67.3
EHF Terminals	54.1	34.2	57.1	71.2	52.6	56.4	61.9
Commercial	16.1	11.7	18.1	22.4	19.2	19.5	20.5
Global Broadcast System	4.6	10.2	10.6	9.8	10.8	10.9	12.1
DSA		3.8	4.6	6.1	6.7	6.7	6.6
	131.7	108.8	145.2	182.1	151.5	192.1	197.7

COST ANALYSIS

DATE: February 1998

APPROPRIATION ACTIVITY: OP,N - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE: SATCOM Ship Terminals 321000

SUBHEAD: 52NN

TOTAL COST IN THOUSANDS OF DOLLARS

COST CODE	ELEMENT OF COST	ID CODE	PY QTY	PY TOTAL COST	FY 1995 QTY	FY 1995 UNIT COST	FY 1995 TOTAL COST	FY 1996 QTY	FY 1996 UNIT COST	FY 1996 TOTAL COST	FY 1997 QTY	FY 1997 UNIT COST	FY 1997 TOTAL COST	FY 1998 QTY	FY 1998 UNIT COST	FY 1998 TOTAL COST	FY 1999 QTY	FY 1999 UNIT COST	FY 1999 TOTAL COST
NN101	Mini-DAMA	A									14	416	5,827						
NN103	SI Comms--SCI/TACINTEL II+/ADNS	A									18	139	2,509	7	194	1,356	11	156	1,711
NN105	5/25 KHz SATCOM--GFCP	A									13	22	291						
NN105	5/25 KHz SATCOM--AN/USC-42	A									18	253	4,557						
NN105	5/25 KHz SATCOM--AN/PSC-5 EMUT	A									180	27	4,835	50	26	1,321	48	27	1,291
NN105	5/25 KHz SATCOM --AN/WSC-3 Mod Kits	A												167	5	808			
NN105	5/25 KHz SATCOM--OE-82 Mod Kits	A									122	19	2,346	80	21	1,670	87	19	1,696
NN105	5/25 KHz SATCOM--Modems	A									113	38	4,285	210	37	7,776			
NN105	5/25 KHz SATCOM--DMR	A												6	969	5,814	40	396	15,855
NN106	SHF Terminals--AN/WSC-6(V)4 mod kits	A									6	1,178	7,068	8	793	6,341	12	710	8,522
NN106	SHF Terminals--7 Ft Antenna	A									5	293	1,467	2	263	526	3	259	778
NN106	SHF Terminals--AN/WSC-6(V)X	A									3	1,658	4,974	1	2,353	2,353	12	1,296	15,551
NN107	EHF Terminals--AN/USC-38(V)	A											10,748	2	6,344	12,687	4	3,820	15,280
NN107	EHF Terminals--NECC/ADNS	A									37	108	3,995	18	105	1,890	39	103	4,018
NN107	EHF Terminals--MDR	A												30	428	12,835	41	421	17,241
NN112	Comm. Satellite--INMARSAT M	A												7	32	224	10	33	327
NN112	Comm. Satellite--INMARSAT B	A									15	61	916	15	41	617	63	42	2,633
NN112	Comm. Satellite--C band/CWSP	A											9,595	4	1,504	6,014	5	1,371	6,854
NN112	Comm. Satellite--Personal Comm. Sys.	A												75	4	335	75	4	336
NN117	Global Broadcast System-- Single Antenna	B									5	389	1,945	1	297	297	16	246	3,930
NN117	Global Broadcast System--Dual Antenna	B									3	583	1,749	13	606	7,879	9	444	4,000
NN777	Install Equipment FMP	A											64,602			34,306			40,568
	DSA	A														3,762			4,602
	TOTAL												**131,709**			**108,811**			**145,193**

PROCUREMENT HISTORY AND PLANNING

A. DATE February 1998

B. APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

C. P-1 ITEM NOMENCLATURE SATCOM Ship Terminals 321000

SUBHEAD 52NN

COST CODE	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
NN101	Mini-DAMA	FY97	Titan, San Diego, CA	C/FPI(Opt)	SPAWAR		Jul-97	Jul-98	14	416,214	Yes	
NN103	SI Comms--SCI/TACINTEL II+/ADNS	FY97	SSC, San Diego, CA	WX	SPAWAR		Dec-96	Mar-97	18	139,400	Yes	
NN103	SI Comms--SCI/TACINTEL II+/ADNS	FY98	SSC, San Diego, CA	WX	SPAWAR		Dec-97	Mar-98	7	193,700	Yes	
NN103	SI Comms--SCI/TACINTEL II+/ADNS	FY99	SSC, San Diego, CA	WX	SPAWAR		Dec-98	Mar-99	11	155,500	Yes	
NN105	5/25 KHz SATCOM - GFCP	FY97	Texas Instrument, San Jose, CA	IDIQ	NAVAIR		Apr-97	Oct-97	13	22,400	Yes	
NN105	5/25 KHz SATCOM - DMR	FY98	TBD	C/FFP	SPAWAR	Jul-97	Feb-98	Jun-98	6	969,000	Yes	
NN105	5/25 KHz SATCOM - DMR	FY99	TBD	C/FFP (Opt)	SPAWAR		Oct-98	Apr-99	40	396,375	Yes	
NN105	5/25 KHz SATCOM--AN/PSC-5 - EMUT	FY97	HDC (Magnavox) Ft. Wayne, IN	FP(Opt)	PM SATCOM		Mar-97	Dec-98	180	26,700	Yes	
NN105	5/25 KHz SATCOM--AN/PSC-5 - EMUT	FY98	HDC (Magnavox) Ft. Wayne, IN	FP(Opt)	PM SATCOM		Mar-98	Dec-99	50	26,400	Yes	
NN105	5/25 KHz SATCOM--AN/PSC-5 - EMUT	FY99	HDC (Magnavox) Ft. Wayne, IN	FP(Opt)	PM SATCOM		Mar-99	Dec-00	48	26,900	Yes	
NN105	5/25 KHz SATCOM--AN/WSC-3 Mods	FY98	E Systems, St Petersburg, FL	SS/FFP	SPAWAR	Aug-97	Nov-97	Apr-98	167	5,000	Yes	
NN105	5/25 KHz SATCOM--AN/USC-42(V)1	FY97	Titan, San Diego, CA	FPI(Opt)	SPAWAR		Jul-97	May-98	18	253,200	Yes	
NN105	5/25 KHz SATCOM--OE-82 Mod Kits (5KHz)	FY97	SSC, San Diego, CA	WX	SPAWAR		Nov-96	Feb-97	122	19,200	Yes	
NN105	5/25 KHz SATCOM--OE-82 Mod Kits (5KHz)	FY98	SSC, San Diego, CA	WX	SPAWAR		Nov-97	Feb-98	80	20,900	Yes	
NN105	5/25 KHz SATCOM--OE-82 Mod Kits (5KHz)	FY99	SSC, San Diego, CA	WX	SPAWAR		Nov-98	Feb-99	87	19,500	Yes	
NN105	5/25 KHz SATCOM--Modems	FY97	ViaSat, Carlsbad, CA	IDIQ	SPAWAR		Mar-97	Jun-97	113	38,000	Yes	
NN105	5/25 KHz SATCOM--Modems	FY98	ViaSat, Carlsbad, CA	IDIQ (Opt)	SPAWAR		Nov-97	Apr-98	210	37,029	Yes	
NN106	SHF AN/WSC-6(V)4 Mod Kits	FY97	SSC, San Diego, CA	WX	SPAWAR		Jan-97	Jan-98	6	1,178,000	Yes	
NN106	SHF AN/WSC-6(V)4 Mod Kits	FY98	SSC, San Diego, CA	WX	SPAWAR		Jan-98	Jan-99	8	792,625	Yes	

D. REMARKS

Notes: NN101 in FY97 includes cost of major ECP for dual channel capability. All unit costs include a share of production support and ancillary equipment for interfacing with numerous ships' systems.
NN105 in FY98 for DMR includes upfront non recurring costs, procurement of 2 test units each from 3 contractors with a production award for the winning design.

PROCUREMENT HISTORY AND PLANNING

A. DATE
February 1998

B. APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

C. P-1 ITEM NOMENCLATURE
SATCOM Ship Terminals 321000

SUBHEAD
52NN

COST CODE	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
NN106	SHF AN/WSC-6(V)4 Mod Kits	FY99	SSC, San Diego, CA	WX	SPAWAR		Jan-99	Jan-00	12	710,166	Yes	N/A
NN106	SHF AN/WSC-6(V)X	FY97	Raytheon, Boston, MA	C/FFP	SPAWAR	Apr-97	Sep-97	Apr-98	3	1,658,000	Yes	N/A
NN106	SHF AN/WSC-6(V)X	FY98	Raytheon, Boston, MA	C/FFP(Opt)	SPAWAR		Jan-98	Oct-98	1	2,353,000	Yes	N/A
NN106	SHF AN/WSC-6(V)X	FY99	Raytheon, Boston, MA	C/FFP(Opt)	SPAWAR		Jan-99	Oct-99	12	1,295,916	Yes	N/A
NN106	SHF Terminals/ 7' Antenna	FY97	Raytheon, Boston, MA	C/FFP	SPAWAR	Jul-96	Jan-97	Oct-97	5	293,400	Yes	N/A
NN106	SHF Terminals/ 7' Antenna	FY98	Raytheon, Boston, MA	C/FFP (Opt)	SPAWAR		Jan-98	Oct-98	2	263,000	Yes	N/A
NN106	SHF Terminals/ 7' Antenna	FY99	Raytheon, Boston, MA	C/FFP (Opt)	SPAWAR		Jan-99	Oct-99	3	259,333	Yes	N/A
NN107	EHF Terminals AN/USC-38 (V)	FY98	Unknown	C/FFP	SPAWAR	Jul-97	Feb-98	Feb-00	2	6,344,000	Yes	N/A
NN107	EHF Terminals AN/USC-38 (V)	FY99	Unknown	C/Option	SPAWAR		Feb-99	Feb-01	4	3,820,000	Yes	N/A
NN107	EHF - MDR	FY98	Raytheon, Boston, MA	SS/FPI	SPAWAR		Jan-98	Jan-00	30	428,000	Yes	N/A
NN107	EHF - MDR	FY99	Raytheon, Boston, MA	Option	SPAWAR		Jan-99	Jan-01	41	421,000	Yes	N/A
NN107	EHF - NECC/ADNS	FY97	SSC, San Diego, CA	WX	SPAWAR		Nov-96	Jul-97	37	108,000	Yes	N/A
NN107	EHF - NECC/ADNS	FY98	SSC, San Diego, CA	WX	SPAWAR		Jan-98	Jul-98	18	105,000	Yes	N/A
NN107	EHF - NECC/ADNS	FY99	SSC, San Diego, CA	WX	SPAWAR		Nov-98	May-99	39	103,000	Yes	N/A
NN112	Commercial-INMARSAT M	FY98	Mackay Comm. Edison, NJ	FP	SPAWAR		Jan-98	Mar-98	7	32,000	Yes	N/A
NN112	Commercial-INMARSAT M	FY99	Mackay Comm. Edison, NJ	FP	SPAWAR		Jan-99	Mar-99	10	33,000	Yes	N/A
NN112	Commercial-INMARSAT B	FY97	Mackay Comm. Edison, NJ	FP	SPAWAR		Mar-97	Jun-97	15	61,000	Yes	N/A
NN112	Commercial-INMARSAT B	FY98	Mackay Comm. Edison, NJ	FP	SPAWAR		Nov-97	Jan-98	15	41,000	Yes	N/A
NN112	Commercial-INMARSAT B	FY99	Mackay Comm. Edison, NJ	FP	SPAWAR		Nov-98	Jan-99	63	42,000	Yes	N/A

D. REMARKS

Notes: All unit costs include production support and ancillary equipment to provide interface capability for various shipboard communications systems.
The EHF Terminals bought in FY98 are contractors NDI models and will be tested but not installed. The contractor with the winning demonstrated capability will produce the EHF terminals staring in FY99.
FY98/99 INMARSAT M terminals procured off the modified INMARSAT B contract.

PROCUREMENT HISTORY AND PLANNING

A. DATE
February 1998

B. APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

C. P-1 ITEM NOMENCLATURE
SATCOM Ship Terminals 321000

SUBHEAD
52NN

COST CODE	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
NN112	Commercial-C Band/CWSP	FY98	Unknown	C/FP	SPAWAR	Feb-98	May-98	Sep-98	4	1,504,000	Yes	N/A
NN112	Commercial-C Band/CWSP	FY99	Unknown	C/FP(Opt)	SPAWAR	Feb-99	May-99	Sep-99	5	1,371,000	Yes	N/A
NN112	Personal Communications System	FY98	Unknown	C/FP	SPAWAR/DISA		Jan-98	Jun-98	75	4,493	Yes	N/A
NN112	Personal Communications System	FY99	Unknown	C/FP(Opt)	SPAWAR/DISA		Jan-99	Jun-99	75	4,480	Yes	N/A
NN117	GBS (Single Antenna System)	FY97	Raytheon, Boston, MA	C/FFP/C/CPAF	SPAWAR//USAF	Sep-97/May-97	Jan-98	Jul-98	5	389,000	Yes	N/A
NN117	GBS (Single Antenna System)	FY98	Raytheon, Boston, MA	C/FFP/C/CPAF	SPAWAR//USAF		Jan-99	Jul-99	1	297,000	Yes	N/A
NN117	GBS (Single Antenna System)	FY99	Raytheon, Boston, MA	C/FFP/C/CPAF	SPAWAR//USAF		Jan-00	Jul-00	16	246,000	Yes	N/A
NN117	GBS (Dual Antenna System)	FY97	Unknown	C/FFP/C/CPAF	SPAWAR//USAF	Sep-97/May-97	Nov-97/Oct-97	Jul-98	3	583,000	Yes	N/A
NN117	GBS (Dual Antenna System)	FY98	Unknown	C/FFP/C/CPAF	SPAWAR//USAF		Nov-98/Sept-98	Jul-99	13	606,000	Yes	N/A
NN117	GBS (Dual Antenna System)	FY99	Unknown	C/FFP/C/CPAF	SPAWAR//USAF		Nov-99/Sept-99	Jul-00	9	444,000	Yes	N/A

D. REMARKS
For NN117, Navy contract will be used to procure the antenna systems and the Air Force will procure receive broadcast equipment.

Feb 1998

MODIFICATION TITLE: **SATCOM Ship Terminals** **321000** **NN101, Mini-DAMA**

MODELS OF SYSTEMS AFFECTED: AN/USC-42(V)

DESCRIPTION/JUSTIFICATION: Provides 5KHz and 25KHz UHF Communications capability for submarines and other disadvantaged users.

Note: The quantity represents the number of channels regardless of single or dual channel units.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment			26	9.9	37	8.0	14	5.8													118	70.9	195	94.6	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*	0	0.0	0	0.0	26	2.0	19	2.5	32	4.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	118	17.7	195	26.6	
PRIOR YR EQUIP																							0	0.0	
FY 95 EQUIP					26	2.0																	26	2.0	
FY 96 EQUIP							19	2.5	18	2.5													37	5.0	
FY 97 EQUIP									14	1.9													14	1.9	
FY 98 EQUIP																							0	0.0	
FY 99 EQUIP																							0	0.0	
FY 00 EQUIP																							0	0.0	
FY 01 EQUIP																							0	0.0	
FY 02 EQUIP																							0	0.0	
FY 03 EQUIP																							0	0.0	
FY TC EQUIP																					118	17.7	118	17.7	
TOTAL INSTALLATION COST		0.0		0.0		2.0		2.5		4.4		0.0		0.0		0.0		0.0		0.0		17.7		26.6	
TOTAL PROCUREMENT COST		0.0		9.9		10.0		8.3		4.4		0.0		0.0		0.0		0.0		0.0		88.6		121.2	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PROCUREMENT LEADTIME: 12 Mo.

CONTRACT DATES: FY 1996: Apr-96 FY 1997: Jul-97 FY 1998: FY 1999:

DELIVERY DATES: FY 1996: Apr-97 FY 1997: Jul-98 FY 1998: FY 1999:

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	26			9	10	5	9	9	9				
OUTPUT	24	2			9	10	5	9	9	9			

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT																	118	195
OUTPUT																	118	195

Note: Quantities represent number of channels regardless of single or dual channel units

1/ This represents Total Inventory objective.

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Feb 1998

MODIFICATION TITLE: **SATCOM Ship Terminals 321000 NN103 SI Communications**

MODELS OF SYSTEMS AFFECTED: TACINTEL II

DESCRIPTION/JUSTIFICATION: Provides Network capability for Special Intelligence (SI) data receipt and transmission, replacing obsolete hardware.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment	50	3.0	40	2.4	9	1.6																	99	7.0	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*	50	5.0	40	4.0	9	1.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	99	10.9	
PRIOR YR EQUIP	50	5.0																					50	5.0	
FY 95 EQUIP			40	4.0																			40	4.0	
FY 96 EQUIP					9	1.9																	9	1.9	
FY 97 EQUIP																							0	0.0	
FY 98 EQUIP																							0	0.0	
FY 99 EQUIP																							0	0.0	
FY 00 EQUIP																							0	0.0	
FY 01 EQUIP																							0	0.0	
FY 02 EQUIP																							0	0.0	
FY 03 EQUIP																						0.0	0	0.0	
FY TC EQUIP																							0	0.0	
TOTAL INSTALLATION COST		5.0		4.0		1.9		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		10.9	
TOTAL PROCUREMENT COST		8.0		6.4		3.5		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		17.9	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: Var. PROCUREMENT LEADTIME: 3 Mo.

CONTRACT DATES: FY 1996: Apr-96 FY 1997: FY 1998: Dec-97 FY 1999:

DELIVERY DATES: FY 1996: Jul-96 FY 1997: FY 1998: Mar-98 FY 1999:

INSTALLATION SCHEDULE:	PY	FY 97 1	2	3	4	FY 98 1	2	3	4	FY 99 1	2	3	4
INPUT	99												
OUTPUT	90	9											

INSTALLATION SCHEDULE:	FY 00 1	2	3	4	FY 01 1	2	3	4	FY 02 1	2	3	4	FY 03 1	2	3	4	TC	TOTAL
INPUT																		99
OUTPUT																		99

Notes: 1/ This represents Total Inventory objective.

Feb 1998

MODIFICATION TITLE: **SATCOM Ship Terminals 321000** | **NN103 SI Communications**

MODELS OF SYSTEMS AFFECTED: SCI/TACINTEL II+/ADNS

DESCRIPTION/JUSTIFICATION: Provides shipboard reception and transmission of multifunctional data using various data networks linking battlegroup commanders with intelligence data bases.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment					7	1.1	18	2.5	7	1.4	11	1.7	7	0.9	54	1.5	32	0.9	32	1.1			168	11.1	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*	0	0.0	0	0.0	7	1.8	18	2.4	7	0.7	11	1.0	7	0.3	54	0.7	32	0.3	32	0.5	0	0.0	168	7.7	
PRIOR YR EQUIP																							0	0.0	
FY 95 EQUIP																							0	0.0	
FY 96 EQUIP					7	1.8																	7	1.8	
FY 97 EQUIP							18	2.4															18	2.4	
FY 98 EQUIP									7	0.7													7	0.7	
FY 99 EQUIP											11	1.0											11	1.0	
FY 00 EQUIP													7	0.3									7	0.3	
FY 01 EQUIP															54	0.7							54	0.7	
FY 02 EQUIP																	32	0.3					32	0.3	
FY 03 EQUIP																			32	0.5			32	0.5	
FY TC EQUIP																							0	0.0	
TOTAL INSTALLATION COST		0.0		0.0		1.8		2.4		0.7		1.0		0.3		0.7		0.3		0.5		0.0		7.7	
TOTAL PROCUREMENT COST		0.0		0.0		2.9		4.9		2.1		2.7		1.2		2.2		1.2		1.6		0.0		18.8	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: Var PROCUREMENT LEADTIME: 3 Mo.

CONTRACT DATES: FY 1996: Apr-96 FY 1997: Dec-96 FY 1998: Dec-97 FY 1999: Dec-98

DELIVERY DATES: FY 1996: Jul-96 FY 1997: Mar-97 FY 1998: Mar-98 FY 1999: Mar-99

INSTALLATION SCHEDULE:	PY	FY 97 1	2	3	4	FY 98 1	2	3	4	FY 99 1	2	3	4
INPUT	7			9	9			3	4			6	5
OUTPUT		7			9	9			3	4			6

INSTALLATION SCHEDULE:	FY 00 1	2	3	4	FY 01 1	2	3	4	FY 02 1	2	3	4	FY 03 1	2	3	4	TC	TOTAL
INPUT			4	3	13	13	14	14	8	8	8	8	8	8	8	8		168
OUTPUT	5			4	3	13	13	14	14	8	8	8	8	8	8	8	8	168

Note: 1/ This represents Total Inventory objective.

Feb 1998

MODIFICATION TITLE: **SATCOM Ship Terminals 321000 NN105 5/25 KHz SATCOM**

MODELS OF SYSTEMS AFFECTED: Generic Front-end Communications Processor (GFCP)

DESCRIPTION/JUSTIFICATION: Provides computer interface for shipboard terminal equipment

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment					13	0.3	13	0.3															26	0.6	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*	0	0.0	0	0.0	0	0.0	13	0.1	13	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	26	0.2	
PRIOR YR EQUIP																							0	0.0	
FY 95 EQUIP																							0	0.0	
FY 96 EQUIP							13	0.1															13	0.1	
FY 97 EQUIP									13	0.1													13	0.1	
FY 98 EQUIP																							0	0.0	
FY 99 EQUIP																							0	0.0	
FY 00 EQUIP																							0	0.0	
FY 01 EQUIP																							0	0.0	
FY 02 EQUIP																							0	0.0	
FY 03 EQUIP																							0	0.0	
FY TC EQUIP																							0	0.0	
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.1		0.1		0.0		0.0		0.0		0.0		0.0		0.0		0.2	
TOTAL PROCUREMENT COST		0.0		0.0		0.3		0.4		0.1		0.0		0.0		0.0		0.0		0.0		0.0		0.8	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 6 Mo. PROCUREMENT LEADTIME 6 mo.

CONTRACT DATES: FY 1996: Apr-96 FY 1997: Apr-97 FY 1998: FY 1999:

DELIVERY DATES: FY 1996: Oct-96 FY 1997: Oct-97 FY 1998: FY 1999:

INSTALLATION SCHEDULE:	PY	FY 97 1	2	3	4	FY 98 1	2	3	4	FY 99 1	2	3	4
INPUT		2	4	4	3	4	4	3	2				
OUTPUT			2	4	4	3	4	4	3	2			

INSTALLATION SCHEDULE:	FY 00 1	2	3	4	FY 01 1	2	3	4	FY 02 1	2	3	4	FY 03 1	2	3	4	TC	TOTAL
INPUT																		26
OUTPUT																		26

Notes: 1/ This represents Total Inventory objective.

Feb 1998

MODIFICATION TITLE: **SATCOM Ship Terminals 321000** | **NN105 5/25 KHz SATCOM**

MODELS OF SYSTEMS AFFECTED: AN/USC-42 (V) 1

DESCRIPTION/JUSTIFICATION: Provides 5KHz and 25 KHz UHF radio transceiver communications capability for mine countermeasures ships

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment					8	1.9	18	4.6															26	6.5	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*	0	0.0	0	0.0	0	2.5	0	0.0	26	3.6	0	0.0											26	6.1	
PRIOR YR EQUIP						2.5																	0	2.5	
FY 95 EQUIP																							0	0.0	
FY 96 EQUIP									8	1.1													8	1.1	
FY 97 EQUIP									18	2.5													18	2.5	
FY 98 EQUIP																							0	0.0	
FY 99 EQUIP																							0	0.0	
FY 00 EQUIP																							0	0.0	
FY 01 EQUIP																							0	0.0	
FY 02 EQUIP																							0	0.0	
FY 03 EQUIP																							0	0.0	
FY TC EQUIP																							0	0.0	
TOTAL INSTALLATION COST		0.0		0.0		2.5		0.0		3.6		0.0		0.0		0.0		0.0		0.0		0.0		6.1	
TOTAL PROCUREMENT COST		0.0		0.0		4.4		4.6		3.6		0.0		0.0		0.0		0.0		0.0		0.0		12.6	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: Var. PROCUREMENT LEADTIME: 12 Mo.

CONTRACT DATES: FY 1996: Apr-96 FY 1997: Jul-97 FY 1998: FY 1999:

DELIVERY DATES: FY 1996: Apr-97 FY 1997: May-98 FY 1998: FY 1999:

INSTALLATION SCHEDULE:	PY	FY 97 1	2	3	4	FY 98 1	2	3	4	FY 99 1	2	3	4
INPUT						6	2	4	14				
OUTPUT							6	2	4	14			

INSTALLATION SCHEDULE:	FY 00 1	2	3	4	FY 01 1	2	3	4	FY 02 1	2	3	4	FY 03 1	2	3	4	TC	TOTAL
INPUT																		26
OUTPUT																		26

Notes: 1/ This represents Total Inventory objective.

Feb 1998

MODIFICATION TITLE: **SATCOM Ship Terminals** **321000** **NN105 5/25 KHz SATCOM**

MODELS OF SYSTEMS AFFECTED: OE-82 Mod Kits

DESCRIPTION/JUSTIFICATION: Provides OE-82 antenna systems with the capability to transmit and receive at a bandwidth of 5KHz as well as 25KHz

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment							122	2.3	80	1.7	87	1.7											289	5.7	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*	0	0.0	0	0.0	0	0.0	88	6.1	114	0.5	87	0.7											289	7.3	
PRIOR YR EQUIP																							0	0.0	
FY 95 EQUIP																							0	0.0	
FY 96 EQUIP																							0	0.0	
FY 97 EQUIP							88	6.1	34	0.1													122	6.2	
FY 98 EQUIP									80	0.4													80	0.4	
FY 99 EQUIP											87	0.7											87	0.7	
FY 00 EQUIP																							0	0.0	
FY 01 EQUIP																							0	0.0	
FY 02 EQUIP																							0	0.0	
FY 03 EQUIP																							0	0.0	
FY TC EQUIP																							0	0.0	
TOTAL INSTALLATION COST		0.0		0.0		0.0		6.1		0.5		0.7		0.0		0.0		0.0		0.0		0.0		7.3	
TOTAL PROCUREMENT COST		0.0		0.0		0.0		8.4		2.2		2.4		0.0		0.0		0.0		0.0		0.0		13.0	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 1 Mo. PROCUREMENT LEADTIME: 3 M0.

CONTRACT DATES: FY 1996: FY 1997: Nov-96 FY 1998: Nov-97 FY 1999: Nov-98

DELIVERY DATES: FY 1996: FY 1997: Feb-97 FY 1998: Feb-98 FY 1999: Feb-99

INSTALLATION SCHEDULE:	PY	FY 97 1	2	3	4	FY 98 1	2	3	4	FY 99 1	2	3	4
INPUT			22	33	33	34	20	30	30		24	36	27
OUTPUT				22	33	33	34	20	30	30		24	36

INSTALLATION SCHEDULE:	FY 00 1	2	3	4	FY 01 1	2	3	4	FY 02 1	2	3	4	FY 03 1	2	3	4	TC	TOTAL
INPUT																		289
OUTPUT	27																	289

Notes: 1/ This represents Total Inventory objective.

Feb 1998

MODIFICATION TITLE: **SATCOM Ship Terminals 321000 NN105 5/25 KHz SATCOM**
MODELS OF SYSTEMS AFFECTED: UHF Modems
DESCRIPTION/JUSTIFICATION: Provides the modulation demodulation capability at 5 KHz bandwidth in the UHF spectrum

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment							113	4.3	210	7.8													323	12.1	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*	0	0.0	0	0.0	0	0.0	69	2.2	188	5.8	66	2.3											323	10.3	
PRIOR YR EQUIP																							0	0.0	
FY 95 EQUIP																							0	0.0	
FY 96 EQUIP																							0	0.0	
FY 97 EQUIP							69	2.2	44	1.5													113	3.7	
FY 98 EQUIP									144	4.3	66	2.3											210	6.6	
FY 99 EQUIP																							0	0.0	
FY 00 EQUIP																							0	0.0	
FY 01 EQUIP																							0	0.0	
FY 02 EQUIP																							0	0.0	
FY 03 EQUIP																							0	0.0	
FY TC EQUIP																							0	0.0	
TOTAL INSTALLATION COST		0.0		0.0		0.0		2.2		5.8		2.3		0.0		0.0		0.0		0.0		0.0		10.3	
TOTAL PROCUREMENT COST		0.0		0.0		0.0		6.5		13.6		2.3		0.0		0.0		0.0		0.0		0.0		22.4	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PROCUREMENT LEADTIME: 3-5 Mo.

CONTRACT DATES: FY 1996: FY 1997: Mar-97 FY 1998: Nov-97 FY 1999:

DELIVERY DATES: FY 1996: FY 1997: Jun-97 FY 1998: Apr-98 FY 1999:

INSTALLATION SCHEDULE:	PY	FY 97 1	2	3	4	FY 98 1	2	3	4	FY 99 1	2	3	4
INPUT				30	39	24	20	76	68	23	23	20	
OUTPUT					30	39	24	20	76	68	23	23	20

INSTALLATION SCHEDULE:	FY 00 1	2	3	4	FY 01 1	2	3	4	FY 02 1	2	3	4	FY 03 1	2	3	4	TC	TOTAL
INPUT																		323
OUTPUT																		323

Notes: 1/ This represents Total Inventory objective.

Feb 1998

MODIFICATION TITLE: **SATCOM Ship Terminals 321000 NN105 5/25 KHz SATCOM**
MODELS OF SYSTEMS AFFECTED: Digital Modular Radio (DMR)
DESCRIPTION/JUSTIFICATION: Provides 5KHz and 25 KHz UHF bandwidth capability and will evenually replace the aging AN/WSC-3 radios

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment									6	5.8	40	15.9	62	25.0	21	8.3	60	24.0	35	14.4	128	52.0	352	145.4	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	1.6	49	11.1	54	12.7	21	5.1	58	13.3	163	39.6	352	83.4	
PRIOR YR EQUIP																							0	0.0	
FY 95 EQUIP																							0	0.0	
FY 96 EQUIP																							0	0.0	
FY 97 EQUIP																							0	0.0	
FY 98 EQUIP											6	1.4											6	1.4	
FY 99 EQUIP											1	0.2	39	9.1									40	9.3	
FY 00 EQUIP													10	2.0	52	12.3							62	14.3	
FY 01 EQUIP															2	0.4	19	4.7					21	5.1	
FY 02 EQUIP																	2	0.4	58	13.3			60	13.7	
FY 03 EQUIP																					35	8.9	35	8.9	
FY TC EQUIP																					128	30.7	128	30.7	
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.0		1.6		11.1		12.7		5.1		13.3		39.6		83.4	
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.0		5.8		17.5		36.1		21.0		29.1		27.7		91.6		228.8	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PROCUREMENT LEADTIME: FY98 4Mo. FY99 6 Mo.

CONTRACT DATES: FY 1996: FY 1997: FY 1998: Feb-98 FY 1999: Oct-98

DELIVERY DATES: FY 1996: FY 1997: FY 1998: Jun-98 FY 1999: Apr-99

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT										6		1	
OUTPUT													7

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT	20	29			25	29			10	11			25		33		163	352
OUTPUT		20	29			25	29			10	11			25		33	196	385

Notes: 1/ This represents Total Inventory objective.

MODIFICATION TITLE: **SATCOM Ship Terminals 321000 NN105 5/25 KHz SATCOM**
MODELS OF SYSTEMS AFFECTED: AN/WSC-3 Mod Kits
DESCRIPTION/JUSTIFICATION: Provides 5KHz and 25 KHz UHF bandwidth capability in existing UHF radios

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment									167	0.8													167	0.8	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	86	0.3	81	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	167	0.6	
PRIOR YR EQUIP																							0	0.0	
FY 95 EQUIP																							0	0.0	
FY 96 EQUIP																							0	0.0	
FY 97 EQUIP																							0	0.0	
FY 98 EQUIP									86	0.3	81	0.3											167	0.6	
FY 99 EQUIP																							0	0.0	
FY 00 EQUIP																							0	0.0	
FY 01 EQUIP																							0	0.0	
FY 02 EQUIP																							0	0.0	
FY 03 EQUIP																							0	0.0	
FY TC EQUIP																							0	0.0	
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.3		0.3		0.0		0.0		0.0		0.0		0.0		0.6	
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.0		1.1		0.3		0.0		0.0		0.0		0.0		0.0		1.4	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 4 Mo. PROCUREMENT LEADTIME:

CONTRACT DATES: FY 1996: FY 1997: FY 1998: Nov-97 FY 1999:

DELIVERY DATES: FY 1996: FY 1997: FY 1998: Apr-98 FY 1999:

INSTALLATION SCHEDULE:	PY	FY 97 1	2	3	4	FY 98 1	2	3	4	FY 99 1	2	3	4
INPUT								43	43	40	41		
OUTPUT									43	43	40	41	

INSTALLATION SCHEDULE:	FY 00 1	2	3	4	FY 01 1	2	3	4	FY 02 1	2	3	4	FY 03 1	2	3	4	TC	TOTAL
INPUT																		167
OUTPUT																		167

Notes: 1/ This represents Total Inventory objective.

Feb 1998

MODIFICATION TITLE: **SATCOM Ship Terminals 321000 NN106 SHF Terminals**

MODELS OF SYSTEMS AFFECTED: AN/WSC-6(V) Mod Kits

DESCRIPTION/JUSTIFICATION: High data rate SHF satellite communications for intra and inter service message, data, voice and video transmission and reception.
Mod kit procurement runs through FY99

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment					4	9.6	6	7.1	8	6.3	12	8.5											30	31.5	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*	0	0.0	0	0.0	0	13.5	4	5.4	6	1.2	8	1.6	12	2.4	0	0.0	0	0.0	0	0.0	0	0.0	30	24.1	
PRIOR YR EQUIP						13.5																	0	13.5	
FY 95 EQUIP																							0	0.0	
FY 96 EQUIP							4	5.4															4	5.4	
FY 97 EQUIP									6	1.2													6	1.2	
FY 98 EQUIP											8	1.6											8	1.6	
FY 99 EQUIP													12	2.4									12	2.4	
FY 00 EQUIP																							0	0.0	
FY 01 EQUIP																							0	0.0	
FY 02 EQUIP																							0	0.0	
FY 03 EQUIP																							0	0.0	
FY TC EQUIP																							0	0.0	
TOTAL INSTALLATION COST		0.0		0.0		13.5		5.4		1.2		1.6		2.4		0.0		0.0		0.0		0.0		24.1	
TOTAL PROCUREMENT COST		0.0		0.0		23.1		12.5		7.5		10.1		2.4		0.0		0.0		0.0		0.0		55.6	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PROCUREMENT LEADTIME: 10/12 Mo.

CONTRACT DATES: FY 1996: Jan-96 FY 1997: Jan-97 FY 1998: Jan-98 FY 1999: Jan-99

DELIVERY DATES: FY 1996: Jul-97 FY 1997: Jan-98 FY 1998: Jan-99 FY 1999: Jan-00

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT				4		4	2			4	4		
OUTPUT					4		2	2	2		3	3	2

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT	4	4	4															30
OUTPUT		4	4	4														30

Notes: 1/ This represents Total Inventory objective.

Feb 1998

MODIFICATION TITLE: **SATCOM Ship Terminals 321000 NN106 SHF Terminals**
MODELS OF SYSTEMS AFFECTED: 7 Ft Antenna
DESCRIPTION/JUSTIFICATION: High data rate SHF satellite communications for intra and inter service message, data, voice and video transmission and reception. Procurement continues through FY01 for 7 Ft replacement antennas.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment					0	0.4	5	1.5	2	0.5	3	0.8											10	3.2	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	5	0.6	2	0.6	3	0.6	0	0.0	0	0.0	0	0.0	0	0.0	10	1.8	
PRIOR YR EQUIP																							0	0.0	
FY 95 EQUIP																							0	0.0	
FY 96 EQUIP																							0	0.0	
FY 97 EQUIP									5	0.6													5	0.6	
FY 98 EQUIP											2	0.6											2	0.6	
FY 99 EQUIP													3	0.6									3	0.6	
FY 00 EQUIP																							0	0.0	
FY 01 EQUIP																							0	0.0	
FY 02 EQUIP																							0	0.0	
FY 03 EQUIP																							0	0.0	
FY TC EQUIP																							0	0.0	
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.6		0.6		0.6		0.0		0.0		0.0		0.0		1.8	
TOTAL PROCUREMENT COST		0.0		0.0		0.4		1.5		1.1		1.4		0.6		0.0		0.0		0.0		0.0		5.0	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PROCUREMENT LEADTIME: 9 Mo.

CONTRACT DATES: FY 1996: FY 1997: Jan-97 FY 1998: Jan-98 FY 1999: Jan-99

DELIVERY DATES: FY 1996: FY 1997: Oct-97 FY 1998: Oct-98 FY 1999: Oct-99

INSTALLATION SCHEDULE:	PY	FY 95 1	FY 95 2	FY 95 3	FY 95 4	FY 96 1	FY 96 2	FY 96 3	FY 96 4	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT														3	2			2			
OUTPUT															3	2			2		

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT	3																	10
OUTPUT	1	2																10

Notes: 1/ This represents Total Inventory objective.

Feb 1998

MODIFICATION TITLE: **SATCOM Ship Terminals 321000 NN106 SHF Terminals**

MODELS OF SYSTEMS AFFECTED: AN/WSC-6(V)X

DESCRIPTION/JUSTIFICATION: Provides high data rate SHF satellite communications for intra and inter service message, data, voice and video transmission and reception.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment					0	1.3	3	5.0	1	2.4	12	15.6	16	18.0	22	24.6	30	48.4	24	37.9	0	0.0	108	153.1	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	3	4.0	1	1.3	12	14.3	16	14.5	22	19.9	30	29.4	24	24.5	108	107.9	
PRIOR YR EQUIP																							0	0.0	
FY 95 EQUIP																							0	0.0	
FY 96 EQUIP																							0	0.0	
FY 97 EQUIP									3	4.0													3	4.0	
FY 98 EQUIP											1	1.3											1	1.3	
FY 99 EQUIP													12	14.3									12	14.3	
FY 00 EQUIP															16	14.5							16	14.5	
FY 01 EQUIP																	22	19.9					22	19.9	
FY 02 EQUIP																			30	29.4			30	29.4	
FY 03 EQUIP																					24	24.5	24	24.5	
FY TC EQUIP																							0	0.0	
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		4.0		1.3		14.3		14.5		19.9		29.4		24.5		107.9	
TOTAL COST		0.0		0.0		1.3		5.0		6.4		16.9		32.3		39.1		68.3		67.3		24.5		261.0	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PROCUREMENT LEADTIME: 9 Mo.

CONTRACT DATES: FY 1996: FY 1997: Sep-97 FY 1998: Jan-98 FY 1999: Jan-99

DELIVERY DATES: FY 1996: FY 1997: Apr-98 FY 1998: Oct-98 FY 1999: Oct-99

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT							1	2		1			
OUTPUT								2	1		1		

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT	4	4	4		6	6	2	2	6	6	4	6	8	8	8	6	24	108
OUTPUT	0	4	4	4		6	6	2	2	6	6	4	6	8	8	8	30	108

Notes: 1/ This represents Total Inventory objective.

Feb 1998

MODIFICATION TITLE: **SATCOM Ship Terminals 321000 NN107 EHF Terminals**

MODELS OF SYSTEMS AFFECTED: AN/USC-38(V)

DESCRIPTION/JUSTIFICATION: Provides full Milstar LDR operational capabilities (FMLOC) with jam resistant, low probability of intercept satellite communications connectivity between ships, shore and submarines in an electromagnetic threat.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment	186	323.8	0	2.9	7	18.6	0	10.7	2	12.7	4	15.3	9	16.0	8	13.7	9	13.9	31	38.7	22	35.2	278	501.5	3/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware (See notes below)	38	76.7	35	44.3	27	21.2	34	36.4	8	5.8	21	17.1	15	19.3	11	15.8	12	13.4	8	8.8	54	64.8	263	323.6	
PRIOR YR EQUIP	38	76.7	35	44.3	27	21.2	34	36.4	8	5.8	21	17.1	8	10.6	1	1.5	1	1.1					173	214.7	
FY 95 EQUIP																							0	0.0	
FY 96 EQUIP													7	8.7									7	8.7	
FY 97 EQUIP																							0	0.0	
FY 98 EQUIP																							0	0.0	
FY 99 EQUIP															4	4.8							4	4.8	
FY 00 EQUIP															6	9.5	3	3.3					9	12.8	
FY 01 EQUIP																	8	9.0					8	9.0	
FY 02 EQUIP																			8	8.8	1	1.2	9	10.0	
FY 03 EQUIP																					31	37.2	31	37.2	
FY TC EQUIP																					22	26.4	22	26.4	
TOTAL INSTALLATION COST		76.7		44.3		21.2		36.4		5.8		17.1		19.3		15.8		13.4		8.8		64.8		323.6	
TOTAL PROCUREMENT COST		400.5		47.2		39.8		47.1		18.5		32.4		35.3		29.5		27.3		47.5		100.0		825.1	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: Various PROCUREMENT LEADTIME: 24 Mo.

CONTRACT DATES: FY 1996: Mar-96 FY 1997: FY 1998: Feb-98 FY 1999: Feb-99

DELIVERY DATES: FY 1996: Mar-98 FY 1997: FY 1998: Feb-00 FY 1999: Feb-01

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	100	9	11	11	3	2	4	1	1	5	6	6	4
OUTPUT	96	4	9	11	11	3	2	4	1	1	5	6	6

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT	4	4	4	3	1	4	4	2	2	4	4	2	2	2	2	2	54	263.0
OUTPUT	4	4	4	4	3	1	4	4	2	2	4	4	2	2	2	2	56	263.0

Note 1: FY97 and FY99 EHF Terminal funding provides for FMLOC.

Note 2: -Difference between procurred quantity (278) and installed quantity (263) is due to 13 OPN Ship procurred terminals installed with SCN funds and 2 NDI test /demo units bought in FY98 not to be installed.

Note 3: This represents Total Inventory objective.

Feb 1998

MODIFICATION TITLE: **SATCOM Ship Terminals 321000 NN107 EHF Terminals**

MODELS OF SYSTEMS AFFECTED: Navy EHF Communications Controller (NECC)/ADNS

DESCRIPTION/JUSTIFICATION: Provides for network management; multiplexing and channel sharing; resource management; communications management and planning; network control and monitoring; circuit switching and packet switching.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment					14	1.5	37	4.0	18	1.9	39	4.0	20	2.1	20	2.2	21	2.3	25	2.8	113	14.1	307	35.0	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware	0	0.0	0	0.0	14	1.4	33	3.0	10	1.0	38	3.5	33	2.8	20	2.0	21	2.1	25	2.5	113	12.0	307	30.3	
PRIOR YR EQUIP																							0	0.0	
FY 95 EQUIP																							0	0.0	
FY 96 EQUIP					14	1.4																	14	1.4	
FY 97 EQUIP							33	3.0	4	0.4													37	3.4	
FY 98 EQUIP									6	0.6	12	1.1											18	1.7	
FY 99 EQUIP											26	2.4	13	1.1									39	3.5	
FY 00 EQUIP													20	1.7									20	1.7	
FY 01 EQUIP															20	2.0							20	2.0	
FY 02 EQUIP																	21	2.1					21	2.1	
FY 03 EQUIP																			25	2.5			25	2.5	
FY TC EQUIP																					113	12.0	113	12.0	
TOTAL INSTALLATION COST		0.0		0.0		1.4		3.0		1.0		3.5		2.8		2.0		2.1		2.5		12.0		30.3	
TOTAL PROCUREMENT COST		0.0		0.0		2.9		7.0		2.9		7.5		4.9		4.2		4.4		5.3		26.1		65.3	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PROCUREMENT LEADTIME: 6 Mo.

CONTRACT DATES: FY 1996: Mar-96 FY 1997: Nov-96 FY 1998: Jan-98 FY 1999: Nov-98

DELIVERY DATES: FY 1996: Jul-96 FY 1997: Jul-97 FY 1998: Jul-98 FY 1999: May-99

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	14			18	15	4		6		6	6	18	8
OUTPUT		14		18	15	4		6		6	6	18	8

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT	6	7	11	9			10	10			11	10			13	12	113	307
OUTPUT	6	7	11	9			10	10			11	10			13	12	113	307

Notes: 1/ This represents Total Inventory objective.

Feb 1998

MODIFICATION TITLE: **SATCOM Ship Terminals 321000 NN107 EHF Terminals**

MODELS OF SYSTEMS AFFECTED: Medium Data Rate (MDR) applique mod kits

DESCRIPTION/JUSTIFICATION: Upgrades the existing AN/USC-38 low data rate terminal into a medium data rate terminal

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment									30	12.8	41	17.2	51	24.6	28	10.3	34	8.7	9	4.3	0	0.0	193	78.0	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	30	6.3	41	8.6	51	16.0	28	4.7	43	5.0	193	40.6	
PRIOR YR EQUIP																							0	0.0	
FY 95 EQUIP																							0	0.0	
FY 96 EQUIP																							0	0.0	
FY 97 EQUIP																							0	0.0	
FY 98 EQUIP													30	6.3									30	6.3	
FY 99 EQUIP															41	8.6							41	8.6	
FY 00 EQUIP																	51	16.0					51	16.0	
FY 01 EQUIP																			28	4.7			28	4.7	
FY 02 EQUIP																					34	4.1	34	4.1	
FY 03 EQUIP																					9	0.9	9	0.9	
FY TC EQUIP																							0	0.0	
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.0		0.0		6.3		8.6		16.0		4.7		5.0		40.6	
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.0		12.8		17.2		30.9		18.9		24.7		9.0		5.0		118.6	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PROCUREMENT LEADTIME: 24 Mo.

CONTRACT DATES: FY 1996: FY 1997: FY 1998: Jan-98 FY 1999: Jan-99

DELIVERY DATES: FY 1996: FY 1997: FY 1998: Jan-00 FY 1999: Jan-01

INSTALLATION SCHEDULE:	PY	FY 97 1	2	3	4	FY 98 1	2	3	4	FY 99 1	2	3	4
INPUT													
OUTPUT													

INSTALLATION SCHEDULE:	FY 00 1	2	3	4	FY 01 1	2	3	4	FY 02 1	2	3	4	FY 03 1	2	3	4	TC	TOTAL
INPUT	2	9	9	10	11	11	11	8	10	14	15	12	6	7	8	7	43	#REF!
OUTPUT		2	9	9	10	11	11	11	8	10	14	15	12	6	7	8	50	#REF!

Note: MDR install is a combination of both antenna upgrade and non-antenna upgrade.

1/ This represents Total Inventory objective.

Feb 1998

MODIFICATION TITLE: **SATCOM Ship Terminals 321000 NN112 Comm. Satellite**

MODELS OF SYSTEMS AFFECTED: **INMARSAT M**

DESCRIPTION/JUSTIFICATION: For smaller ships INMARSAT M provides the capability for Official phones, STU III, Debit Card Crew Phones, Internet, E-Mail, PC to PC, Video Teleconferencing and Facsimile.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment					8	0.2	0	0.0	7	0.2	10	0.3	5	0.2									30	1.0	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*	0	0.0	0	0.0	8	0.3	0	0.0	7	0.2	10	0.3	5	0.1	0	0.0	0	0.0	0	0.0	0	0.0	30	0.9	
PRIOR YR EQUIP																							0	0.0	
FY 95 EQUIP																							0	0.0	
FY 96 EQUIP					8	0.3																	8	0.3	
FY 97 EQUIP																							0	0.0	
FY 98 EQUIP									7	0.2													7	0.2	
FY 99 EQUIP											10	0.3											10	0.3	
FY 00 EQUIP													5	0.1									5	0.1	
FY 01 EQUIP																							0	0.0	
FY 02 EQUIP																							0	0.0	
FY 03 EQUIP																							0	0.0	
FY TC EQUIP																							0	0.0	
TOTAL INSTALLATION COST		0.0		0.0		0.3		0.0		0.2		0.3		0.1		0.0		0.0		0.0		0.0		0.9	
TOTAL PROCUREMENT COST		0.0		0.0		0.5		0.0		0.4		0.6		0.3		0.0		0.0		0.0		0.0		1.9	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 1 Mo. PROCUREMENT LEADTIME: 3 Mos.

CONTRACT DATES: FY 1996: Jul-96 FY 1997: FY 1998: Jan-98 FY 1999: Jan-99

DELIVERY DATES: FY 1996: Sep-96 FY 1997: FY 1998: Mar-98 FY 1999: Mar-99

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	8							3	4			5	5
OUTPUT	8								3	4			5

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT			5															30
OUTPUT	5			5														30

Notes: 1/ This represents Total Inventory objective.

Feb 1998

MODIFICATION TITLE: **SATCOM Ship Terminals 321000 NN112 Comm. Satellite**

MODELS OF SYSTEMS AFFECTED: **INMARSAT B**

DESCRIPTION/JUSTIFICATION: Provides upgrade to the older INMARSAT A terminals giving ships the capability for Official phones, STU III, Debit Card Crew Phones, Internet, E-Mail, PC to PC, Video Teleconferencing and Facsimile.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment					16	1.3	15	0.9	15	0.6	63	2.6	31	1.3	32	1.4	19	0.8					191	9.0	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*	0	0.0	0	0.0	0	0.0	16	1.0	25	1.5	54	3.4	35	2.2	32	2.0	29	1.8	0	0.0	0	0.0	191	11.9	
PRIOR YR EQUIP																							0	0.0	
FY 95 EQUIP																							0	0.0	
FY 96 EQUIP							16	1.0															16	1.0	
FY 97 EQUIP									15	0.9													15	0.9	
FY 98 EQUIP									10	0.6	5	0.3											15	0.9	
FY 99 EQUIP											49	3.1	14	0.9									63	4.0	
FY 00 EQUIP													21	1.3	10	0.6							31	1.9	
FY 01 EQUIP															22	1.4	10	0.6					32	2.0	
FY 02 EQUIP																	19	1.2					19	1.2	
FY 03 EQUIP																							0	0.0	
FY TC EQUIP																							0	0.0	
TOTAL INSTALLATION COST		0.0		0.0		0.0		1.0		1.5		3.4		2.2		2.0		1.8		0.0		0.0		11.9	
TOTAL COST		0.0		0.0		1.3		1.9		2.1		6.0		3.5		3.4		2.6		0.0		0.0		20.9	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 1 Mo. PROCUREMENT LEADTIME: 3 Mo.

CONTRACT DATES: FY 1996: Jul-96 FY 1997: Mar-97 FY 1998: Nov-97 FY 1999: Nov-98

DELIVERY DATES: FY 1996: Sep-96 FY 1997: Jun-97 FY 1998: Jan-98 FY 1999: Jan-99

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT		6	6		4	12	3	6	4	5	16	16	17
OUTPUT			6	6		4	12	3	6	4	5	16	16

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT	14	6	8	7	10	7	7	8	10	12	7							191
OUTPUT	17	14	6	8	7	10	7	7	8	10	12	7						191

Notes: 1/ This represents Total Inventory objective.

Feb 1998

MODIFICATION TITLE: **SATCOM Ship Terminals 321000 NN112 Comm. Satellite**

MODELS OF SYSTEMS AFFECTED: **C Band/CWSP**

DESCRIPTION/JUSTIFICATION: Provides C and Ku wide band SATCOM terminals supporting capabilities such as Automated Digital Multiplexing System (ADMS). Telemedcine, official and unofficial phones, public affairs officer information, imag

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment					8	11.5	0	9.6	4	6.0	5	6.9	7	8.1	6	7.0	6	7.3	7	8.7	37	50.0	80	115.1	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*	0	0.0	0	0.0	7	5.2	1	4.6	3	2.8	4	4.3	7	10.2	6	8.4	6	8.7	7	10.5	39	59.2	80	113.9	
PRIOR YR EQUIP																							0	0.0	
FY 95 EQUIP																							0	0.0	
FY 96 EQUIP					7	5.2	1	1.1															8	6.3	
FY 97 EQUIP (See note below)								3.5															0	3.5	
FY 98 EQUIP									3	2.8	1	1.1											4	3.9	
FY 99 EQUIP											3	3.2	2	2.9									5	6.1	
FY 00 EQUIP													5	7.3	2	2.8							7	10.1	
FY 01 EQUIP															4	5.6	2	2.9					6	8.5	
FY 02 EQUIP																	4	5.8	2	3.0			6	8.8	
FY 03 EQUIP																			5	7.5			5	7.5	
FY TC EQUIP																					37	59.2	37	59.2	
TOTAL INSTALLATION COST		0.0		0.0		5.2		4.6		2.8		4.3		10.2		8.4		8.7		10.5		59.2		113.9	
TOTAL PROCUREMENT COST		0.0		0.0		16.7		14.2		8.8		11.2		18.3		15.4		16.0		19.2		109.2		229.0	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PROCUREMENT LEADTIME: 4 Mo.

CONTRACT DATES: FY 1996: Feb-96 FY 1997: FY 1998: May-98 FY 1999: May-99

DELIVERY DATES: FY 1996: Jun-96 FY 1997: FY 1998: Sep-98 FY 1999: Sep-99

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	7	1							3	1			3
OUTPUT	4	3	1							3	1		

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT	3			4	4			2	5			1	4		3		39	80
OUTPUT	3	3			4	4			2	5			1	4		3	39	80

Note: No terminals were procured with FY97 funds, only mod kits to upgrade existing terminals, baseband equipment and material for three major shipboard sponsons.
Installation in FY97 was for one terminal bought in FY96 plus ancillary hardware bought in FY97.
Total cost changed; OPNAV direction is to procure/install wideband systems for only CV/CVN/LHA/LHD/LPD/LCC/AGF classes.

1/ This represents Total Inventory objective.

P-1 SHOPPING LIST

ITEM NO.	PAGE NO.
107	**27**

Feb 1998

MODIFICATION TITLE: **SATCOM Ship Terminals 321000 NN117 Global Broadcast System (GBS)**

MODELS OF SYSTEMS AFFECTED: GBS with **single** antenna configuration: Commercial off the shelf (COTS) receive only satellite communications terminals with a single antenna, modems and ancillary hardware and processing equipment.

DESCRIPTION/JUSTIFICATION: Navy portion of a joint services program to deliver high speed satellite data to shipboard and special operations users.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment							5	1.9	1	0.3	16	3.9	21	5.5	33	8.2	21	7.0	20	6.9	194	32.9	311	66.7	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.6	5	1.2	1	0.3	16	1.9	21	2.4	33	3.9	41	5.2	194	24.2	311	39.7	
PRIOR YR EQUIP																							0	0.0	
FY 95 EQUIP																							0	0.0	
FY 96 EQUIP																							0	0.0	
FY 97 EQUIP							0	0.6	5	1.2													5	1.8	2/
FY 98 EQUIP											1	0.3											1	0.3	
FY 99 EQUIP													16	1.9									16	1.9	
FY 00 EQUIP															21	2.4							21	2.4	
FY 01 EQUIP																	33	3.9					33	3.9	
FY 02 EQUIP																			21	2.6			21	2.6	
FY 03 EQUIP																			20	2.6			20	2.6	
FY TC EQUIP																					194	24.2	194	24.2	
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.6		1.2		0.3		1.9		2.4		3.9		5.2		24.2		39.7	
TOTAL COST		0.0		0.0		0.0		2.5		1.5		4.2		7.4		10.6		10.9		12.1		57.1		106.4	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PROCUREMENT LEADTIME: 6 Mo.

CONTRACT DATES: FY 1996: FY 1997: Jan-98 FY 1998: Jan-99 FY 1999: Jan-00

DELIVERY DATES: FY 1996: FY 1997: Jul-98 FY 1998: Jul-99 FY 1999: Jul-00

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT								2	3			1	
OUTPUT									2	3			1

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT			8	8	5	5	5	6	8	9	9	7	10	10	10	11	194	311
OUTPUT				8	8	5	5	5	6	8	9	9	7	10	10	10	205	311

Notes: 1/ This represents Total Inventory objective.

2/ Install funding in this year includes detailed NAVSEA shipboard documentation and drawings.

Feb 1998

MODIFICATION TITLE: **SATCOM Ship Terminals 321000 NN117 Global Broadcast System (GBS)**

MODELS OF SYSTEMS AFFECTED: GBS with **dual** antenna configuration: Commercial off the shelf (COTS) receive only satellite communications terminals with a single antenna, modems and ancillary hardware and processing equipment.

DESCRIPTION/JUSTIFICATION: Navy portion of a joint services program to deliver high speed satellite data to shipboard and special operations users.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment							3	1.7	13	7.9	9	4.0	2	0.9							28	7.3	55	21.8	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*							0	0.4	3	0.8	13	2.4	9	1.5	2	0.3	0	0.0	0	0.0	28	4.8	55	10.2	
PRIOR YR EQUIP																							0	0.0	
FY 95 EQUIP																							0	0.0	
FY 96 EQUIP																							0	0.0	
FY 97 EQUIP							0	0.4	3	0.8													0	0.4	2/
FY 98 EQUIP											13	2.4											16	3.2	
FY 99 EQUIP													9	1.5									9	1.5	
FY 00 EQUIP															2	0.3							2	0.3	
FY 01 EQUIP																							0	0.0	
FY 02 EQUIP																							0	0.0	
FY 03 EQUIP																							0	0.0	
FY TC EQUIP																					28	4.8	28	4.8	
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.4		0.8		2.4		1.5		0.3		0.0		0.0		4.8		10.2	
TOTAL PROCUREMENT COST		0.0		0.0		0.0		2.1		8.7		6.4		2.4		0.3		0.0		0.0		12.1		32.0	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PROCUREMENT LEADTIME: 9 Mo.

CONTRACT DATES: FY 1996: FY 1997: Nov-97 FY 1998: Nov-98 FY 1999: Nov-99

DELIVERY DATES: FY 1996: FY 1997: Jul-98 FY 1998: Jul-99 FY 1999: Jul-00

INSTALLATION SCHEDULE:	PY	FY 97 1	2	3	4	FY 98 1	2	3	4	FY 99 1	2	3	4
INPUT									3			6	7
OUTPUT										3			6

INSTALLATION SCHEDULE:	FY 00 1	2	3	4	FY 01 1	2	3	4	FY 02 1	2	3	4	FY 03 1	2	3	4	TC	TOTAL
INPUT			4	5			2										28	55
OUTPUT	7			4	5			2									28	55

Notes: 1/ This represents Total Inventory objective.

2/ Install funding in this year includes detailed NAVSEA shipboard documentation and drawings.

CLASSIFICATION: UNCLASSIFIED

Exhibit P-20, Requirements Study	APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	DATE: February 1998
P-1 ITEM NOMENCLATURE SATCOM Ship Terminals 321000	**AN/PSC** **NN105** **EMUT**	Admin Leadtime (after Oct1): Prod Leadtime :

	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary		**180**	**50**	**48**				
Unit Cost		**.026**	**.027**	**.027**				
Total Cost		**$4.8**	**$1.3**	**$1.3**				
Asset Dynamics								
Beginning Asset Position		0	0	0	180	230	278	278
Deliveries from all prior year funding								
Deliveries from FY 1997 funding				180				
Deliveries from FY 1998 funding					50			
Deliveries from FY 1999 funding						48		
Deliveries from subsequent years' funding								
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End oy Year Asset Position				180	230	278	278	278
Inventory Objective or Current Authorized Allowance								

Inventory Objective 278	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)	Vehicles Eligible for FY 1998 Replacement:	Aircraft: TOAI:
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	Vehicles Eligible for FY 1999 Replacement:	PAA: TAI
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995:	Vehicle Augment:	Attrition Res:
Pipeline:	FY 1994:	FY 1994:	FY 1994:		BAI
Other:	FY 1993:	FY 1993:	FY 1993:		Inactive Inv:
TOTAL:					Storage:

Remarks:

CLASSIFICATION: UNCLASSIFIED

Exhibit P-20, Requirements Study	APPROPRIATION/BUDGET ACTIVITY	DATE:
	OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	February 1998
P-1 ITEM NOMENCLATURE **NN112**	Admin Leadtime (after Oct1):	Prod Leadtime :
SATCOM Ship Terminals 321000 **/Personal Communication System**	**4 Months**	**4 months**

	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary			**75**	**75**	**75**	**100**	**200**	**300**
Unit Cost			**.004**	**.004**	**.004**	**.004**	**.004**	**.004**
Total Cost			**$0.3**	**$0.3**	**$0.3**	**$0.4**	**$0.9**	**$1.3**
Asset Dynamics								
Beginning Asset Position			0	75	150	225	325	525
Deliveries from all prior year funding			0					
Deliveries from FY 1997 funding			0					
Deliveries from FY 1998 funding			75					
Deliveries from FY 1999 funding				75				
Deliveries from subsequent years' funding					75	100	200	300
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End oy Year Asset Position			75	150	225	325	525	825
Inventory Objective or Current Authorized Allowance								

Inventory Objective 825	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)	Vehicles Eligible for FY 1998 Replacement:	Aircraft: TOAI:
Assets Rqd For Combat Loads:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	FY 1996 thru XXXXX:	Vehicles Eligible for FY 1999 Replacement:	PAA: TAI
WRM Rqmt:	FY 1995:	FY 1995:	FY 1995:	Vehicle Augment:	Attrition Res:
Pipeline:	FY 1994:	FY 1994:	FY 1994:		BAI
Other:	FY 1993:	FY 1993:	FY 1993:		Inactive Inv:
TOTAL:					Storage:

Remarks:

UNCLASSIFIED

CLASSIFICATION

PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE: Feb 1998

APPROPRIATION/BUDGET ACTIVITY: OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE: SATCOM Ship Terminals 321000

SUBHEAD NO.: 52NN

COST CODE	ITEM/MANUFACTURER	FY	SERV	PROC QTY	ACCEP PRIOR TO 1-Oct	BAL DUE AS OF 1-Oct	PY			FISCAL YEAR 96															FISCAL YEAR 97												FISCAL YEAR 98								
										CALENDAR YEAR 96															CALENDAR YEAR 97												CALENDAR YEAR 98								
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
NN101	Mini-DAMA	FY96		37		37							A												5	5	5	5	5	5	5	2										
NN101	Mini-DAMA	FY97		14		14																						A												10	4	
NN103	TACINTEL II	FY96		9		9							A			9																													
NN103	SCI/TACINTEL II+/ADNS	FY96		7		7							A			7																													
NN103	SCI/TACINTEL II+/ADNS	FY97		18		18															A			18																				
NN103	SCI/TACINTEL II+/ADNS	FY98		7		7																											A			7							
NN103	SCI/TACINTEL II+/ADNS	FY99		11		11																																						
NN105	5/25 KHz SATCOM -- GFCP	FY96		13		13							A						13																									
NN105	5/25 KHz SATCOM -- GFCP	FY97		13		13																			A						13													
NN105	5/25 KHz SATCOM -- DMR	FY98		6		6																													A					6				
NN105	5/25 KHz SATCOM -- DMR	FY99		40		40																																						
NN105	5/25 KHz SATCOM--EMUT	FY97		180		180																		A																				
NN105	5/25 KHz SATCOM--EMUT	FY98		50		50																														A								
NN105	5/25 KHz SATCOM--EMUT	FY99		48		48																																						
NN105	5/25 KHz SATCOM--OE-82 Mod Kits	FY97		122		122														A			11	11	11	11	11	11	11	11	11	11	11	1										
NN105	5/25 KHz SATCOM--OE-82 Mod Kits	FY98		80		80																										A			10	10	10	10	10	10	10	10	10	
NN105	5/25 KHz SATCOM--OE-82 Mod Kits	FY99		87		87																																						
NN105	5/25 KHz SATCOM--Modems	FY97		113		113																		A			18	17	17	17	17	17	10											
NN105	5/25 KHz SATCOM--Modems	FY98		210		210																										A					25	25	25	25	25	25	
NN105	5/25 KHz SATCOM--AN/USC-42(V)1	FY96		8		8							A												2	2	2	2																
NN105	5/25 KHz SATCOM--AN/USC-42(V)1	FY97		18		18																						A										4	4	4	4	2	
NN105	5/25 KHz SATCOM--AN/WSC-3 Mod Kits	FY98		167		167																										A					30	30	30	29	24	24	
NN106	AN/WSC-6(V)4 Mod Kits	FY96		4		4				A																			1	1	1	1												
NN106	AN/WSC-6(V)4 Mod Kits	FY97		6		6																A												1	1	1	1	1	1				
NN106	AN/WSC-6(V)4 Mod Kits	FY98		8		8																												A										
NN106	AN/WSC-6(V)4 Mod Kits	FY99		12		12																																						
NN106	7 Ft Antenna	FY97		5		5																A									1	1	1	1	1									
NN106	7 Ft Antenna	FY98		2		2																												A										
NN106	7 Ft Antenna	FY99		3		3																																						
NN106	AN/WSC-6(V)X	FY97		3		3																								A								1	1	1			
NN106	AN/WSC-6(V)X	FY98		1		1																												A										
NN106	AN/WSC-6(V)X	FY99		12		12																																						
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST

ITEM NO. 107 PAGE NO. 32

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PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE: Feb 1998

APPROPRIATION/BUDGET ACTIVITY: OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE: SATCOM Ship Terminals 321000

SUBHEAD NO.: 52NN

COST CODE	ITEM/MANUFACTURER	FY	SERV	PROC QTY	ACCEP PRIOR TO 1-Oct	BAL DUE AS OF 1-Oct	FISCAL YEAR 96 PY			CALENDAR YEAR 96									FISCAL YEAR 97			CALENDAR YEAR 97									FISCAL YEAR 98			CALENDAR YEAR 98						
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
NN107	EHF Terminals USC-38(V)	FY96		7		7						A																								2	2	2	1			
NN107	EHF Terminals USC-38(V)	FY98		2		2																													A							
NN107	EHF Terminals USC-38(V)	FY99		4		4																																				
NN107	MDR Applique'	FY98		30		30																												A								
NN107	MDR Applique'	FY99		41		41																																				
NN107	NECC/ADNS	FY96		14		14						A				5	5	4																								
NN107	NECC/ADNS	FY97		37		37														A								5	5	5	5	6	6	5								
NN107	NECC/ADNS	FY98		18		18																												A						4	4	4
NN107	NECC/ADNS	FY99		39		39																																				
NN112	INMARSAT B	FY96		16		16										A		3	3	3	3	4																				
NN112	INMARSAT B	FY97		15		15																		A			4	4	4	3												
NN112	INMARSAT B	FY98		15		15																										A		3	3	3	3	3				
NN112	INMARSAT B	FY99		63		63																																				
NN112	INMARSAT M	FY96		8		8										A		8																								
NN112	INMARSAT M	FY98		7		7																												A		3	4					
NN112	INMARSAT M	FY99		10		10																																				
NN112	PCS	FY98		75		75																												A					8	8	8	8
NN112	PCS	FY99		75		75																																				
NN112	Comm. Wide Band	FY96		8		8					A				4	4																										
NN112	Comm. Wide Band	FY98		4		4																																A				4
NN112	Comm. Wide Band	FY99		5		5																																				
NN117	GBS (Single Antenna)	FY97		5		5																												A						2	3	
NN117	GBS (Single Antenna)	FY98		1		1																																				
NN117	GBS (Single Antenna)	FY99		16		16																																				
NN117	GBS (Dual Antenna)	FY97		3		3																										A								2	1	
NN117	GBS (Dual Antenna)	FY98		13		13																																				
NN117	GBS (Dual Antenna)	FY99		9		9																																				

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST

ITEM NO. 107 PAGE NO. 33

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PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE: Feb 1998

APPROPRIATION/BUDGET ACTIVITY: OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE: SATCOM Ship Terminals 321000

SUBHEAD NO.: 52NN

COST CODE	ITEM/MANUFACTURER/ PROCUREMENTY YEAR	FISCAL YEAR	CARRY OVER	FISCAL YEAR 99												FISCAL YEAR 00												FISCAL YEAR 01												LATER
				CY98			CALENDAR YEAR 99											CALENDAR YEAR 00												CALENDAR YEAR 01										
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
NN101	Mini-DAMA	FY96																																						
NN101	Mini-DAMA	FY97																																						
NN103	TACINTEL II	FY96																																						
NN103	SCI/TACINTEL II+/ADNS	FY96																																						
NN103	SCI/TACINTEL II+/ADNS	FY97																																						
NN103	SCI/TACINTEL II+/ADNS	FY98																																						
NN103	SCI/TACINTEL II+/ADNS	FY99	11			A			11																															
NN105	5/25 KHz SATCOM -- GFCP	FY96																																						
NN105	5/25 KHz SATCOM -- GFCP	FY97																																						
NN105	5/25 KHz SATCOM -- DMR	FY98																																						
NN105	5/25 KHz SATCOM -- DMR	FY99	40	A						5	5	5	5	5	5	5	5																							
NN105	5/25 KHz SATCOM--EMUT	FY97	180			25	25	25	25	25	25	25	5																											
NN105	5/25 KHz SATCOM--EMUT	FY98	50															10	10	10	10	10																		
NN105	5/25 KHz SATCOM--EMUT	FY99	48						A																					10	10	10	10	8						
NN105	5/25 KHz SATCOM--OE-82 Mod Kits	FY97																																						
NN105	5/25 KHz SATCOM--OE-82 Mod Kits	FY98																																						
NN105	5/25 KHz SATCOM--OE-82 Mod Kits	FY99	87		A			12	12	12	12	12	12	12	3																									
NN105	5/25 KHz SATCOM--Modems	FY97																																						
NN105	5/25 KHz SATCOM--Modems	FY98	60	15	15	15	15																																	
NN105	5/25 KHz SATCOM--AN/USC-42(V)1	FY96																																						
NN105	5/25 KHz SATCOM--AN/USC-42(V)1	FY97																																						
NN105	5/25 KHz SATCOM--AN/WSC-3 Mod Kits	FY98																																						
NN106	AN/WSC-6(V)4 Mod Kits	FY96																																						
NN106	AN/WSC-6(V)4 Mod Kits	FY97																																						
NN106	AN/WSC-6(V)4 Mod Kits	FY98	8				1	1	1	1	1	1	1	1																										
NN106	AN/WSC-6(V)4 Mod Kits	FY99	12				A												1	1	1	1	1	1	1	1	1	1	1											
NN106	7 Ft Antenna	FY97																																						
NN106	7 Ft Antenna	FY98	2	1	1																																			
NN106	7 Ft Antenna	FY99	3				A									1	1	1																						
NN106	AN/WSC-6(V)X	FY97																																						
NN106	AN/WSC-6(V)X	FY98	1	1																																				
NN106	AN/WSC-6(V)X	FY99	12				A									1	2	1	2	1	1	1	1	1	1															
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

NAVMAT FORM 7110/4 (REVISED 11/77)

UNCLASSIFIED

CLASSIFICATION

P-1 SHOPPING LIST

ITEM NO. 107 PAGE NO. 34

UNCLASSIFIED

CLASSIFICATION

PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE: February 1998

APPROPRIATION/BUDGET ACTIVITY: OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE: SATCOM Ship Terminals 321000

SUBHEAD NO.: 52NN

COST CODE	ITEM/MANUFACTURER/ PROCUREMENTY YEAR	FISCAL YEAR	CARRY OVER	FISCAL YEAR 99												FISCAL YEAR 00												FISCAL YEAR 01												LATER
				CY98			CALENDAR YEAR 99												CALENDAR YEAR 00												CALENDAR YEAR 01								
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
NN107	EHF Terminals	FY96																																						
NN107	EHF Terminals	FY98	2																	2																				
NN107	EHF Terminals	FY99	4					A																								1	1	1	1					
NN107	MDR Applique'	FY98	30																4	4	4	4	4	4	4	2														
NN107	MDR Applique'	FY99	41				A																								4	4	4	4	4	4	4	4	4	5
NN107	NECC/ADNS	FY96																																						
NN107	NECC/ADNS	FY97																																						
NN107	NECC/ADNS	FY98	6	4	2																																			
NN107	NECC/ADNS	FY99	39		A						6	6	6	6	6	6	3																							
NN112	INMARSAT B	FY96																																						
NN112	INMARSAT B	FY97																																						
NN112	INMARSAT B	FY98																																						
NN112	INMARSAT B	FY99	63		A		5	8	8	8	8	8	8	8	2																									
NN112	INMARSAT M	FY96																																						
NN112	INMARSAT M	FY98																																						
NN112	INMARSAT M	FY99	10				A		5	5																														
NN112	PCS	FY98	43	8	8	8	8	8	3																															
NN112	PCS	FY99	75				A					8	8	8	8	8	8	8	8	8	3																			
NN112	Comm. Wide Band	FY96																																						
NN112	Comm. Wide Band	FY98																																						
NN112	Comm. Wide Band	FY99	5								A				3	2																								
NN117	GBS (Single Antenna)	FY97																																						
NN117	GBS (Single Antenna)	FY98	1				A						1																											
NN117	GBS (Single Antenna)	FY99	16																A						2	2	2	2	2	3	3									
NN117	GBS (Dual Antenna)	FY97																																						
NN117	GBS (Dual Antenna)	FY98	13		A								2	2	2	1	1	1	1	1	1	1																		
NN117	GBS (Dual Antenna)	FY99	9														A								1	1	1	1	1	1	1	1	1							
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST

ITEM NO. 107 PAGE NO. 35

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CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
SATCOM Shore Terminals

SUBHEAD
52NP 322000

	PY			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TO COMP	TOTAL
QUANTITY												
COST (in millions)	**$389.0**			**$26.6**	**$4.8**	**$71.1**	**$65.0**	**$28.4**	**$20.1**	**$41.3**	Continuing	Continuing

PROGRAM COVERAGE: The SATCOM Shore Terminals P-1 line provides funds for procurement of shore based equipment for shore-to-shore and shore-to-ship tactical communications via earth orbiting relay satellites operating in the Ultra High Frequency (UHF), Super High Frequency (SHF), and Extremely High Frequency (EHF) bands. This includes Radio Frequency (RF) equipment and baseband equipment assembled and grouped into systems and subsystems structured to address specific naval communications requirements. These systems provide processors and peripheral equipment that control the RF links for message traffic, direct data transfer and secure voice communications. They are selected and oriented by communications traffic levels, types of communications and operational missions. These shore terminals provide the satellite communications interface between the at-sea fleet and the shore establishment communications network and is an integral part of the Joint Maritime Communications Strategy.

JUSTIFICATION OF BUDGET YEAR REQUIREMENTS:

MINI-DAMA: Demand Assigned Multiple Access (DAMA) quadruples the UHF and SHF satellite channel capacity through multiplexing, thus providing adequate satellite access to meet the present user requirements without increasing the number of satellites in the constellation. The shore DAMA line provides for procurement of multiplexers, DAMA constant key alarms, control monitor groups, VME integrated communications systems (VICS) and miscellaneous interconnecting hardware for shore sites. Mini-DAMA is the second phase of the UHF DAMA program. It provides a miniaturized version of the TD-1271B/U and incorporates UHF SATCOM and LOS transceiver capabilities and AN/SSR-1A broadcast receiver capabilities. Mini-DAMA also uses 5 KHz or 25 KHz satellite channels, external UHF SATCOM and LOS capabilities, and can operate in DAMA or non-DAMA modes. The Mini-DAMA configuration was transitioned from MIL-SPEC to commercial open system architecture. FY96 provided procurement of Mini-DAMA units with miscellaneous interface support equipment for shore uses, training and production support. FY97 continues with production support, procurement of engineering change documentation and miscellaneous support and test equipment.

SI COMMS (TACINTEL II and SCI/TACINTEL II+/ADNS) : The shore terminal interface for shipboard TACINTEL II+ will utilize non-development items (NDI), Commercial off the Shelf (COTS), Government off the Shelf (GOTS) and supporting hardware as needed for existing systems to meet the Special Intelligence Communications requirements. Prior year's funds provided two tiers of growth. First, it continued fielding of the TAC-3 and TAC-4 workstations. This is a key facet of realizing the Joint Maritime Communications Strategy (JMCOMS)/Automated Digital Network Systems (ADNS) architecture in that a common processor will have been fielded allowing for expanded capabilities. In FY96, the procurement consisted of TAC- 4 work stations with the appropriate ancillary equipment to establish the TACINTEL II capability at various shore and training sites. Funds in FY97 through FY98 will continue to procure TAC-X ancillary equipment to provide the full capability of SI-Communications and implementation of JMCOMS/ADNS by the end of the century. This is a phased program to upgrade the present TACINTEL terminals then upgrade the capability with hardware and software improvements to result in TACINTEL II and INTELNET portions of TACINTEL II+.

BUDGET ITEM JUSTIFICATION SHEET (Continuation)		DATE February 1998
APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	P-1 ITEM NOMENCLATURE SATCOM Shore Terminals	SUBHEAD 52NP

5/25 KHz SATCOM: This line provides the equipment to upgrade and/or replace portions of the aging UHF frequency communications equipment that has for two decades been the backbone of Navy satellite communications. The FY97 funds provide MD1324 modems for shore connectivity with deploying battle groups.

SHF Terminals: This line provides SHF shore based equipment for high data rate communications with Fleet units via the Defense Satellite Communications Systems (DSCS). Shore based terminals have an operational requirement to support joint, theater and Navy unique command, control, communications, support and intelligence circuits for voice, data, video and imagery to the extent they are required on SHF platforms. The FY99 funds procure one AN/WSC-6(V)X trainer plus mod kits for upgrading existing SHF shore based terminals.

EHF Terminals: This program provides for the acquisition of the Navy's EHF Satellite Communications Program (NESP) terminals in four semi-concurrent phases. Phase I of the NESP program provides Low Data Rate (LDR) jam resistant, low probability of intercept EHF SATCOM terminals for submarines, surface ships, and shore stations in the electromagnetic threat environment projected into the next decade. This requirement is contained in the NESP NDCP dated Apr 89 and the JROC validated Milstar ORD of Jun 92. There is a requirement to procure a total of 51 operational shore terminals, plus six life cycle support systems, four transportable terminals, thirteen SCAMPs (Several Channel Anti-jam Man Pack) to provide multi-channel portable communications, and nine trainers. This requirement was recently updated in draft OPNAV letter Ser N631D/7U560382 of 18 Apr 97.

Phase II of the NESP program procures Navy EHF Communications Controllers (NECCs), as part of the ADNS strategy to provide for the exchange of computer-to-computer tactical communications over the survivable EHF satellite links. NECC provides for network management; multiplexing and channel sharing; resource management; communications management and planning; network control and monitoring; and communications protocols such as circuit switching and packet switching. NECC requirements are outlined in the NESP NDCP dated Apr 89 and must be fully fielded with deploying battle groups to support tactical information exchange over EHF SATCOM.

Phase III of the NESP program provides for the procurement of Full Milstar LDR Operational Capabilities (FMLOC). FMLOC efforts include Agile Beam Management (ABM), Over-the-Air-Rekey (OTAR), and In-Band Control (IBC) capabilities required by the JROC validated Milstar ORD. Additionally, the Processor Upgrade Program (PUP) must be implemented to support the terminal throughput and memory requirements of the Phase III capabilities. All of these Phase III efforts will provide essential EHF operational communications capabilities with the current Milstar satellites. Similarly, IBCs will provide interoperable voice communications on all EHF satellites (Milstar, UHF Follow-On (UFO), and FLTSAT EHF Package (FEP)). Phase III also includes procurement of Interim Polar modification kits. An EHF polar communications capability will be available in FY 97 using an EHF package on a classified host in the Molniya orbit. To use this polar capability, terminals will require minor modifications. In addition, shore gateways are necessary to provide connectivity from the Interim Polar satellite to other EHF satellite constellations.

Phase IV of the NESP program consists of a Medium Data Rate (MDR) capability which will provide the only protected (jam resistant and low probability of intercept/detection) MDR communications from 4.8 kilobits per second (Kbps) to 1.544 megabits per second (Mbps) to all major fleet combatants with Milstar Satellites 3-6. To meet the Navy's requirement for MDR capable terminals, MDR appliqués will be procured and retrofitted into existing LDR terminals and the balance of the requirements will be procured as part of a combined terminal follow-on contract beginning in FY 98. Follow-on terminals will also have Phase III FMLOC capabilities incorporated into their baseline. The requirement for MDR is outlined in the JROC validated Milstar ORD and must be fielded by FY 99 in order to support the launch schedule of the first Milstar II satellite. By OPNAV paper, Ser N631D/703-693-0024 dated 16 September, the Program Office was directed to accelerate the MDR upgrade program to meet fleet needs. Prior to receiving the MDR appliqué, existing NESP terminals must have Phase III upgrades due to the processing throughput and memory requirements of MDR.

FY 97 funds will be used to continue the procurement of NECCs and FMLOC equipment. FY 98 funds will be used to begin procurement MDR retrofit appliqués and for the continued procurement of NECCs and FMLOC equipment. These procurements will be continued in FY 99 and FY 00.

BUDGET ITEM JUSTIFICATION SHEET (Continuation)

DATE February 1998

APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	SATCOM Shore Terminals	52NP

Global Broadcast System: This is the Navy shore portion of the joint program with the Air Force as Executive Service. The GBS will augment other Military Satellite Communications (MILSATCOM) systems and provide a continuous , high speed , one way information flow of high volume data to units ashore, afloat or special operations. GBS will support routine operations, training and military exercises, special activities, crises, situational awareness, weapons targeting, reconnaissance and the transition to and conduct of opposed operations short of nuclear war. GBS shore terminal will provide the capability of quick dissemination of large information products to various Navy fixed sites and small combat and combat support elements. FY97 begins procurement of shore site terminals as a result a Congressional budget plus up. In FY98 and FY99, the shore GBS terminal components will be procured as follows: GBS Antenna & receiver from GBS Joint Program Office (Air Force) contract. Transportable terminals will be procured from the GBS-JPO contract. A Mission Need Statement for GBS was signed on 3 AUG 1995, and the Operational Requirements Document (ORD) was signed on 30 April 1997.

JMINI: The JMINI Control System is a joint interest program with the Navy designated as the lead service. The JMINI Control System will provide dynamic centralized control of joint operable 5-kHz and 25-kHz ultra high frequency (UHF) military satellite communications (MILSATCOM) voice and data resources via a globally integrated system of four control stations to be located at each of the Naval Computer and Telecommunications Area Master Station/Naval Computer and Telecommunications Station (NCTAMS/NCTS) sites. Funds in FY98 procure two developmental sites; each site has two channel capacity. Funds in FY99 begin procurement of four control stations (each of which are required to form a JMINI control system). Each control station has a 156 channel capacity.

TRAINING SUPPORT AGENT: FY96 funds provided factory training for Mini-DAMA.

INSTALLATION AGENT: Various

Equipment (Includes Installation)	FY97	FY98	FY99	FY00	FY01	FY02	FY03
UHF Terminals	5.9	2.4	52.4	25.7	2.7	0.7	0.7
SHF Terminals	0.0	0.0	1.8	2.4	1.5	0.6	0.6
EHF Terminals	17.3	2.2	15.2	35.3	21.1	16.5	39.2
Global Broadcast System	3.5	0.2	1.6	1.6	3.1	2.3	0.7
	26.6	4.8	71.1	65.0	28.4	20.1	41.3

COST ANALYSIS

DATE February 1998

APPROPRIATION ACTIVITY OP,N - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE SATCOM Shore Terminals

SUBHEAD 52NP

COST CODE	ELEMENT OF COST	ID CODE	TOTAL COST IN THOUSANDS OF DOLLARS																
			PY		FY 1995			FY 1996			FY 1997			FY 1998			FY 1999		
			QTY	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
NP101	Mini-DAMA	A											640						
NP103	SI Comms-TACINTEL II	A									7	207	1,450	3	210	629			
NP103	SI Comms--SCI/TACINTEL II+/AD	A									5	52	258	15	49	730			
NP105	5/25 KHz SATCOM--Modems/DMI	A									14	50	706						
NP108	SHF Term.-AN/WSC-6(V)X	A															1	1,165	1,165
NP108	SHF Term.-AN/WSC-6(V)4 Mod K	A															1	660	660
NP109	EHF Terminals-NECC/ADNS	A									9	99	891	3	103	309	5	107	536
NP109	EHF Terminals-Interim Polar Gate	A									2	2,689	5,377						
NP109	EHF Terminals-MDR	B												2	394	787	5	1,664	8,320
NP109	EHF Terminals-AN/USC-38(V)	A	34										4,160				13	394	5,121
NP117	GBS Equip. Suite/Antenna	A									4	770	3,080				11	111	1,221
NP118	JMINI/ADNS	A												2	278	555	4	10,883	43,531
NP666	Training Support	A																	
NP776	Non-FMP Installation	A											10,061			1,798			10,523
	Various 1/																		
	TOTAL												**26,623**			**4,808**			**71,077**

1/ The amount identified against this cost element reflects total prior year funding associated with cost elements no longer financed in FY 1995 and beyond.

PROCUREMENT HISTORY AND PLANNING

A. DATE Feb 1998

B. APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

C. P-1 ITEM NOMENCLATURE SATCOM Shore Terminals

SUBHEAD 52NP

COST CODE	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
NP103	SI COMMs-TACINTEL II	FY97	SSC-San Diego, CA	WX	SPAWAR		Dec-96	Mar-97	7	207,000	Yes	
NP103	SI COMMs-TACINTEL II	FY98	SSC-San Diego, CA	WX	SPAWAR		Dec-97	Mar-98	3	210,000	Yes	
NP103	SI Comms--SCI/TACINTEL II+/ADNS	FY97	SSC-San Diego, CA	WX	SPAWAR		Dec-96	Mar-97	5	52,000	Yes	
NP103	SI Comms--SCI/TACINTEL II+/ADNS	FY98	SSC-San Diego, CA	WX	SPAWAR		Dec-97	Mar-98	15	49,000	Yes	
NP105	5/25 KHz SATCOM-- UHF Modems	FY97	ViaSAT, Carlsbad, CA	IDIQ	SPAWAR		Mar-97	Jun-97	14	50,000	Yes	
NP108	AN/WSC-6(V)X	FY99	Raytheon, Boston, MA	C/FFP	SPAWAR	Apr-97	Jan-99	Oct-99	1	1,165,000	Yes	
NP108	AN/WSC-6(V)4 Mod Kits	FY99	SSC-San Diego, CA	WX	SPAWAR	Oct-98	Jan-99	Jan-00	1	660,000	Yes	
NP109	EHF Terminals-NECC/ADNS	FY97	SSC-San Diego, CA	WX	SPAWAR		Nov-96	Jun-97	9	99,000	Yes	
NP109	EHF Terminals-NECC/ADNS	FY98	SSC-San Diego, CA	WX	SPAWAR		Nov-97	Jun-98	3	103,000	Yes	
NP109	EHF Terminals-NECC/ADNS	FY99	SSC-San Diego, CA	WX	SPAWAR		Nov-98	Jun-99	5	107,000	Yes	
NP109	EHF-Interim Polar Gateway 1/	FY97	Raytheon, Boston, MA	SS/IDIQ	SPAWAR		Nov-96	Feb-97	2	2,689,000	Yes	
NP109	EHF Terminals-MDR 2/	FY98	Raytheon, Boston, MA	SS	SPAWAR	Jul-97	Dec-97	Aug-98	2	394,000	Yes	
NP109	EHF Terminals-MDR 2/	FY99	Raytheon, Boston, MA	SS(Opt)	SPAWAR		Jan-99	Jan-01	5	1,664,000	Yes	
NP109	EHF Terminals-AN/USC-38(V)X 3/	FY97	Raytheon, Boston, MA	SS/IDIQ	SPAWAR	Aug-96	Jan-97	VAR	VAR	VAR	Yes	
NP109	EHF Terminals-AN/USC-38(V)X 3/	FY99	Raytheon, Boston, MA	Option	SPAWAR		Jan-99	Jun-99	13	393,923	Yes	
NP117	GBS Equip. Shore Suite/Antennas 4/	FY97	Raytheon Ft Wayne ID	CPAF	GBS-JPO	Apr-97	Nov-97	May-98	4	770,000	Yes	Jun-97
NP117	GBS Equip. Shore Suite/Antennas 4/	FY99	Raytheon Ft Wayne ID	CPAF	GBS-JPO	Apr-97	Nov-98	Mar-99	11	111,000	Yes	N/A
NP118	JMINI/ADNS 5/	FY98	Unknown	C/IDIQ	SPAWAR		Oct-97	Sep-98	2	278,000	Yes	
NP118	JMINI/ADNS 5/	FY99	Unknown	C/IDIQ	SPAWAR		Oct-98	Mar-99	4	10,883,000	Yes	

D.
REMARKS

General- All unit costs include a share of production support and ancillary hardware requirements.

1/ FY97 Polar Funding for System Integration/Procurement for 5 systems at 4 Shore Sites.

2/ FY98 MDR Procurement for modems only. Associated antennas will be procured with modems in FY99.

3/ FY97 EHF Terminal funding provides for procurement of FMLOC and preparation for follow on terminal procurement. FY99 EHF Terminal funding provides for procurement of FMLOC, SCAMP, reliability incentives, waranty costs and baseband equipment.

4/ NP117 in FY97 includes non-recurring production start up costs plus production support for preparation of specifications and procurement packages. NP117 in FY99 includes 8 low unit cost transportables.

FY 97Procurement = 7 Antennas, 3 transportables, 4 shore receivers; FY 98 No terminal Procurement, ancillary equipment only; FY 99 Procurement = 11 transportables, 4 shore receivers

5/ For NP118, the unit cost displayed here represents the average cost for each site. FY98 consists of two 2 channel systems for training and ISEA support. FY99 consists of four satellite uplink sites, each with one 72 channel primary insertion system. Funds include site unique interface hardware and production support.

6/ Unit cost includes cost of dual channel configuration engineering change proposal (ECP), ancillary hardware and Production support.

Feb 1998

MODIFICATION TITLE: **SATCOM Shore Terminals** **NP101 Mini-DAMA**

MODELS OF SYSTEMS AFFECTED: AN/USC-42(V)

DESCRIPTION/JUSTIFICATION: Provides a miniaturized version of the TD-1271B/U and incorporates UHF SATCOM and LOS and AN/SSR-1A broadcast receiver capabilities.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment			6	1.1	6	1.4	0	0.6													22	8.3	34	11.4	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*							12	0.8													22	2.2	34	3.0	
PRIOR YR EQUIP																							0	0.0	
FY 95 EQUIP							6	0.4															6	0.4	
FY 96 EQUIP							6	0.4															6	0.4	
FY 97 EQUIP																							0	0.0	
FY 98 EQUIP																							0	0.0	
FY 99 EQUIP																							0	0.0	
FY 00 EQUIP																							0	0.0	
FY 01 EQUIP																							0	0.0	
FY 02 EQUIP																							0	0.0	
FY 03 EQUIP																							0	0.0	
FY TC EQUIP																					22	2.2	22	2.2	
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.8		0.0		0.0		0.0		0.0		0.0		0.0		2.2		3.0	
TOTAL PROCUREMENT COST		0.0		1.1		1.4		1.4		0.0		0.0		0.0		0.0		0.0		0.0		10.5		14.4	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PROCUREMENT LEADTIME: 12 Mo.

CONTRACT DATES: FY 1996: Apr-96 FY 1997: Jul-97 FY 1998: FY 1999:

DELIVERY DATES: FY 1996: Apr-97 FY 1997: Jul-98 FY 1998: FY 1999:

INSTALLATION SCHEDULE:	PY	FY 97 1	2	3	4	FY 98 1	2	3	4	FY 99 1	2	3	4
INPUT				6	6								
OUTPUT					6	6							

INSTALLATION SCHEDULE:	FY 00 1	2	3	4	FY 01 1	2	3	4	FY 02 1	2	3	4	FY 03 1	2	3	4	TC	TOTAL
INPUT																	22	34
OUTPUT																	22	34

Note: 1/ This represents the total inventory objective.

Feb 1998

MODIFICATION TITLE: MODIFICATION TITLE: **NP103 SI Communications**

MODELS OF SYSTEMS AFFECTED: **TACINTEL II**

DESCRIPTION/JUSTIFICATION: TACINTEL II equipment consists of TAC-N work stations and ancillary hardware to replace two racks of obsolete equipment presently in fleet service supporting the dissemination of classified Special Intelligence informatio

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment			12	0.7	4	0.9	7	1.5	3	0.6													26	3.7	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*			12	1.2	4	0.4	5	0.2	2	0.2	3	0.3											26	2.3	
PRIOR YR EQUIP																							0	0.0	
FY 95 EQUIP			12	1.2																			12	1.2	
FY 96 EQUIP					4	0.4																	4	0.4	
FY 97 EQUIP							5	0.2	2	0.2													7	0.4	
FY 98 EQUIP											3	0.3											3	0.3	
FY 99 EQUIP																							0	0.0	
FY 00 EQUIP																							0	0.0	
FY 01 EQUIP																							0	0.0	
FY 02 EQUIP																							0	0.0	
FY 03 EQUIP																							0	0.0	
FY TC EQUIP																							0	0.0	
TOTAL INSTALLATION COST		0.0		1.2		0.4		0.2		0.2		0.3		0.0		0.0		0.0		0.0		0.0		2.3	
TOTAL PROCUREMENT COST		0.0		1.9		1.3		1.7		0.8		0.3		0.0		0.0		0.0		0.0		0.0		6.0	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 1 month PROCUREMENT LEADTIME: 3 MO.

CONTRACT DATES: FY 1996: Apr-96 FY 1997: Dec-96 FY 1998: Dec-97 FY 1999:

DELIVERY DATES: FY 1996: Jul-96 FY 1997: Mar-97 FY 1998: Mar-98 FY 1999:

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	16			2	3	2				3			
OUTPUT	16			2	3	2				3			

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT																		26
OUTPUT																		26

Note: 1/ This represents the total inventory objective.

Feb 1998

MODIFICATION TITLE: **SATCOM Shore Terminals** **NP103 SI Communications**
MODELS OF SYSTEMS AFFECTED: **SCI/TACINTEL II+/ADNS**
DESCRIPTION/JUSTIFICATION: Provides common processor capability for SI Communications interface with other systems

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment			0	0.0	0	0.0	5	0.3	15	0.7	0	0.0			4	0.2	5	0.2					29	1.4	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*	0	0.0	0	0.0	0	0.0	5	0.3	4	0.2	5	0.4	6	0.7	4	0.4	5	0.5	0	0.0	0	0.0	29	2.5	
PRIOR YR EQUIP																							0	0.0	
FY 95 EQUIP																							0	0.0	
FY 96 EQUIP																							0	0.0	
FY 97 EQUIP							5	0.3															5	0.3	
FY 98 EQUIP									4	0.2	5	0.4	6	0.7									15	1.3	
FY 99 EQUIP																							0	0.0	
FY 00 EQUIP																							0	0.0	
FY 01 EQUIP															4	0.4							4	0.4	
FY 02 EQUIP																	5	0.5					5	0.5	
FY 03 EQUIP																							0	0.0	
FY TC EQUIP																							0	0.0	
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.3		0.2		0.4		0.7		0.4		0.5		0.0		0.0		2.5	
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.6		0.9		0.4		0.7		0.6		0.7		0.0		0.0		3.9	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 2 Mo. PROCUREMENT LEADTIME: 3 Mo.

CONTRACT DATES: FY 1996: FY 1997: Dec-96 FY 1998: Dec-97 FY 1999:

DELIVERY DATES: FY 1996: FY 1997: Mar-97 FY 1998: Mar-98 FY 1999:

INSTALLATION SCHEDULE:	PY	FY 97 1	2	3	4	FY 98 1	2	3	4	FY 99 1	2	3	4
INPUT				3	2			2	2	2	2	1	
OUTPUT				3	2			2	2	2	2	1	

INSTALLATION SCHEDULE:	FY 00 1	2	3	4	FY 01 1	2	3	4	FY 02 1	2	3	4	FY 03 1	2	3	4	TC	TOTAL
INPUT	2	2	2				2	2			2	3						29
OUTPUT	2	2	2				2	2			2	3						29

Note: 1/ This represents the total inventory objective.

Feb 1998

MODIFICATION TITLE: **NP105 5/25 KHz SATCOM**

MODELS OF SYSTEMS AFFECTED: **UHF Modems/DMR**

DESCRIPTION/JUSTIFICATION: Modems for UHF communications in support of Information Technology for the 21st Century (IT-21)

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment							14	0.7											12	0.7			26	1.4	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*							14	1.6													12	2.4	26	4.0	
PRIOR YR EQUIP																							0	0.0	
FY 95 EQUIP																							0	0.0	
FY 96 EQUIP																							0	0.0	
FY 97 EQUIP							14	1.6															14	1.6	
FY 98 EQUIP																							0	0.0	
FY 99 EQUIP																							0	0.0	
FY 00 EQUIP																							0	0.0	
FY 01 EQUIP																							0	0.0	
FY 02 EQUIP																							0	0.0	
FY 03 EQUIP																							0	0.0	
FY TC EQUIP																					12	2.4	12	2.4	
TOTAL INSTALLATION COST		0.0		0.0		0.0		1.6		0.0		0.0		0.0		0.0		0.0		0.0		2.4		4.0	
TOTAL PROCUREMENT COST		0.0		0.0		0.0		2.3		0.0		0.0		0.0		0.0		0.0		0.7		2.4		5.4	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PROCUREMENT LEADTIME:

CONTRACT DATES: FY 1996: FY 1997: Mar-97 FY 1998: FY 1999:

DELIVERY DATES: FY 1996: FY 1997: Jun-97 FY 1998: FY 1999:

INSTALLATION SCHEDULE:	PY	FY 97 1	2	3	4	FY 98 1	2	3	4	FY 99 1	2	3	4
INPUT				7	7								
OUTPUT					7	7							

INSTALLATION SCHEDULE:	FY 00 1	2	3	4	FY 01 1	2	3	4	FY 02 1	2	3	4	FY 03 1	2	3	4	TC	TOTAL
INPUT																	12	26
OUTPUT																	12	26

Notes: 1/ This represents the total inventory objective.

Feb 1998

MODIFICATION TITLE: **SATCOM Shore Terminals** **NP108 -- SHF Terminals**

MODELS OF SYSTEMS AFFECTED: AN/WSC-6(V)X terminals

DESCRIPTION/JUSTIFICATION: Provides training and technical support for high data rate SHF satellite communications for inter and intra service message, data, voice and video transmission.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment											1	1.2	1	1.2									2	2.4	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*													1	0.3	1	0.3							2	0.6	
PRIOR YR EQUIP																							0	0.0	
FY 95 EQUIP																							0	0.0	
FY 96 EQUIP																							0	0.0	
FY 97 EQUIP																							0	0.0	
FY 98 EQUIP																							0	0.0	
FY 99 EQUIP													1	0.3									1	0.3	
FY 00 EQUIP															1	0.3							1	0.3	
FY 01 EQUIP																							0	0.0	
FY 02 EQUIP																							0	0.0	
FY 03 EQUIP																							0	0.0	
FY TC EQUIP																							0	0.0	
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.0		0.0		0.3		0.3		0.0		0.0		0.0		0.6	
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.0		0.0		1.2		1.5		0.3		0.0		0.0		0.0		3.0	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 13 Mos. PROCUREMENT LEADTIME: 9 Mos.

CONTRACT DATES: FY 1996: FY 1997: FY 1998: FY 1999: Jan-99

DELIVERY DATES: FY 1996: FY 1997: FY 1998: FY 1999: Oct-99

INSTALLATION SCHEDULE:	PY	FY 97 1	2	3	4	FY 98 1	2	3	4	FY 99 1	2	3	4
INPUT													
OUTPUT													

INSTALLATION SCHEDULE:	FY 00 1	2	3	4	FY 01 1	2	3	4	FY 02 1	2	3	4	FY 03 1	2	3	4	TC	TOTAL
INPUT		1					1											2
OUTPUT			1					1										2

Note: 1/ This represents the total inventory objective.

MODIFICATION TITLE: **SATCOM Shore Terminals** **NP108 -- SHF Terminals**

MODELS OF SYSTEMS AFFECTED: AN/WSC-6(V)2/4 Mod Kits to upgrade existing equipment for training and technical support.

DESCRIPTION/JUSTIFICATION: Provides training and technical support for high data rate SHF satellite communications for inter and intra service message, data, voice and video transmission.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment			0	0.0	0	0.0	0	0.0	0	0.0	1	0.7	1	0.2	0	0.2	0	0.0	0	0.0	0	0.0	2	1.1	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	1	0.4	0	0.0	0	0.0	0	0.0	2	0.6	
PRIOR YR EQUIP																							0	0.0	
FY 95 EQUIP																							0	0.0	
FY 96 EQUIP																							0	0.0	
FY 97 EQUIP																							0	0.0	
FY 98 EQUIP																							0	0.0	
FY 99 EQUIP													1	0.2									1	0.2	
FY 00 EQUIP															1	0.4							1	0.4	
FY 01 EQUIP																							0	0.0	
FY 02 EQUIP																							0	0.0	
FY 03 EQUIP																							0	0.0	
FY TC EQUIP																							0	0.0	
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.0		0.0		0.2		0.4		0.0		0.0		0.0		0.6	
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.0		0.0		0.7		0.4		0.6		0.0		0.0		0.0		1.7	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 Mos. PROCUREMENT LEADTIME: 12 Mos.

CONTRACT DATES: FY 1996: FY 1997: FY 1998: FY 1999: Jan-99

DELIVERY DATES: FY 1996: FY 1997: FY 1998: FY 1999: Jan-00

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT													
OUTPUT													

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT		1			1													2
OUTPUT				1			1											2

Note: 1/ This represents the total inventory objective.

February 1998

MODIFICATION TITLE: **SATCOM Shore Terminals** **NP109 EHF Terminals**

MODELS OF SYSTEMS AFFECTED: AN/USC-38(V)3 including EHF FMLOC, and production support.

DESCRIPTION/JUSTIFICATION: Jam resistant, low probability of intercept satellite communications connectivity from shore stations to submarines and surface ships in an electromagnetic threat.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Various

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring					1/		1/				2/													
Equipment	34	74.3				3.0		4.2			13	5.1	12	16.3	6	9.3	2	2.8	6	12.3	0	0.0	73	127.3 3/
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	6	17.0	5	6.1	10	8.4	8	2.4			1	0.6	4	3.2			6	5.5	12	15.2	8	8.2	60	66.6
PRIOR YR EQUIP	6	17.0	5	6.1	10	8.4	8	2.4			1	0.6	4	3.2									34	37.7
FY 95 EQUIP																							0	0
FY 96 EQUIP																							0	0
FY 97 EQUIP																							0	0
FY 98 EQUIP																							0	0
FY 99 EQUIP																							0	0
FY 00 EQUIP																	6	5.5	6	7.6			12	13.1
FY 01 EQUIP																			6	7.6			6	7.6
FY 02 EQUIP																					2	2.0	2	2
FY 03 EQUIP																					6	6.2	6	6.2
FY TC EQUIP																							0	0
TOTAL INSTALLATION COST		17.0		6.1		8.4		2.4		0.0		0.6		3.2		0.0		5.5		15.2		8.2		66.6
TOTAL COST		91.3		6.1		11.4		6.6		0.0		5.7		19.5		9.3		8.3		27.5		8.2		193.9

METHOD OF IMPLEMENTATION: Various ADMINISTRATIVE LEADTIME: 1 Mo. PROCUREMENT LEADTIME: 24-30 months

CONTRACT DATES: FY 1996: FY 1997: Jan-97 FY 1998: N/A FY 1999: Jan-99

DELIVERY DATES: FY 1996: FY 1997: Var FY 1998: N/A FY 1999: Jun-99

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	21	1	4	2	1						1		
OUTPUT	21		1	4	2	1						1	

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT		2	2							2	2	2	3	3	4	2	8	60
OUTPUT			2	2							2	2	2	3	3	4	10	60

Note: 1/ FY96 and FY97 EHF Terminal funding provides for procurement of FMLOC and SCAMP, NO INSTALL REQUIRED

Note: 2/ FY99 Procurement is for 13 transportables and will not require installation. This represents the delta between 73 procured and 60 installed.

Note: 3/ This represents total inventory objective.

February 1998

MODIFICATION TITLE: **SATCOM Shore Terminals** **NP109 EHF Terminals**
MODELS OF SYSTEMS AFFECTED: Medium Data Rate (MDR) Appliques for AN/USC-38(V), retrofit kits, and production support
DESCRIPTION/JUSTIFICATION: Jam resistant, low probability of intercept satellite communications connectivity between shore stations, submarinbes, and surface ships in an electromagnetic threat.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring									1/		2/														
Equipment									2	0.8	5	8.3	20	14.2	10	8.6	4	3.5	2	3.5			43	38.9	3/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*									2	0.6					5	1.0	20	2.1	10	1.9	6	0.9	43	6.5	
PRIOR YR EQUIP																							0	0	
FY 95 EQUIP																							0	0	
FY 96 EQUIP																							0	0	
FY 97 EQUIP																							0	0	
FY 98 EQUIP									2	0.6													2	0.6	
FY 99 EQUIP															5	1.0							5	1	
FY 00 EQUIP																	20	2.1					20	2.1	
FY 01 EQUIP																			10	1.9			10	1.9	
FY 02 EQUIP																					4	0.6	4	0.6	
FY 03 EQUIP																					2	0.3	2	0.3	
FY TC EQUIP																							0	0	
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.6		0.0		0.0		1.0		2.1		1.9		0.9		6.5	
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.0		1.4		8.3		14.2		9.6		5.6		5.4		0.9		45.4	

METHOD OF IMPLEMENTATION: Various ADMINISTRATIVE LEADTIME: 1 month PROCUREMENT LEADTIME: 24 mos.

CONTRACT DATES: FY 1996: FY 1997: FY 1998: Dec-97 FY 1999: Jan-99

DELIVERY DATES: FY 1996: FY 1997: FY 1998: Aug-98 FY 1999: Jan-01

INSTALLATION SCHEDULE:	PY	FY 97 1	2	3	4	FY 98 1	2	3	4	FY 99 1	2	3	4
INPUT									2				
OUTPUT									2				

INSTALLATION SCHEDULE:	FY 00 1	2	3	4	FY 01 1	2	3	4	FY 02 1	2	3	4	FY 03 1	2	3	4	TC	TOTAL
INPUT						2	3			7	7	6		4	4	2	6	43
OUTPUT							2	3			7	7	6		4	4	8	43

Note: 1/ FY98 procurement is for 2 MDR modems only for shipboard verification testing requiring a 9 month procurement leadtime.
Note: 2/ FY99 procurement includes f complete systems plus two additional antennas; FY99 and outyear procurements are for modems and antennas and require a 24 month procurement leadtime.
Note: 3/ This represents the total inventory objective.

February 1998

MODIFICATION TITLE: **SATCOM Shore terminals/NECC** **NP109 EHF Terminals**
MODELS OF SYSTEMS AFFECTED: **Navy EHF Communications Controllers (NECC)**
DESCRIPTION/JUSTIFICATION: Jam resistant, low probability of intercept satellite communications connectivity between shore stations, submarines, and surface ships in electromagnetic threat.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment							9	0.9	3	0.3	5	0.5	8	0.8	10	1.0	14	1.3	25	3.3			74	8.1	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*							9	0.8	3	0.5	5	0.6	8	0.8	10	1.2	14	1.3	25	3.1			74	8.3	
PRIOR YR EQUIP																							0	0.0	
FY 95 EQUIP																							0	0.0	
FY 96 EQUIP																							0	0.0	
FY 97 EQUIP							9	0.8															9	0.8	
FY 98 EQUIP									3	0.5													3	0.5	
FY 99 EQUIP											5	0.6											5	0.6	
FY 00 EQUIP													8	0.8									8	0.8	
FY 01 EQUIP															10	1.2							10	1.2	
FY 02 EQUIP																	14	1.3					14	1.3	
FY 03 EQUIP																			25	3.1			25	3.1	
FY TC EQUIP																							0	0.0	
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.8		0.5		0.6		0.8		1.2		1.3		3.1		0.0		8.3	
TOTAL PROCUREMENT COST		0.0		0.0		0.0		1.7		0.8		1.1		1.6		2.2		2.6		6.4		0.0		16.4	

METHOD OF IMPLEMENTATION: Various ADMINISTRATIVE LEADTIME: Various PROCUREMENT LEADTIME: NECC-6 mos.

CONTRACT DATES: FY 1996: FY 1997: Nov-96 FY 1998: Nov-97 FY 1999: Nov-98

DELIVERY DATES: FY 1996: FY 1997: Jun-97 FY 1998: Jun-98 FY 1999: Jun-99

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT				4	5			2	1			3	2
OUTPUT					4	5			2	1			3

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT			4	4		4	4	2		5	5	4		8	9	8		74
OUTPUT	2			4	4		4	4	2		5	5	4		8	9	8	74

Note: 1/ This represents the total inventory objective.

February 1998

MODIFICATION TITLE: **SATCOM Shore terminals** **NP109 EHF Terminals**

MODELS OF SYSTEMS AFFECTED: **Interim Polar Gateway System** testing/integration of terminals at two shore sites. (Brunswick, ME; Bangor, ME)

DESCRIPTION/JUSTIFICATION: Jam resistant, low probability of intercept satellite communications connectivity between shore stations and submarines operating in the Polar regions.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Various

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total		
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment							2	5.4															2	5.4	1/
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interm Contractor Support																									
Installation of Hardware*							2	3.7															2	3.7	
PRIOR YR EQUIP																							0	0.0	
FY 95 EQUIP																							0	0.0	
FY 96 EQUIP																							0	0.0	
FY 97 EQUIP							2	3.7															2	3.7	
FY 98 EQUIP																							0	0.0	
FY 99 EQUIP																							0	0.0	
FY 00 EQUIP																							0	0.0	
FY 01 EQUIP																							0	0.0	
FY 02 EQUIP																							0	0.0	
FY 03 EQUIP																							0	0.0	
FY TC EQUIP																							0	0.0	
TOTAL INSTALLATION COST		0.0		0.0		0.0		3.7		0.0		0.0		0.0		0.0		0.0		0.0		0.0		3.7	
TOTAL PROCUREMENT COST		0.0		0.0		0.0		9.1		0.0		0.0		0.0		0.0		0.0		0.0		0.0		9.1	

METHOD OF IMPLEMENTATION: Various ADMINISTRATIVE LEADTIME: Various PROCUREMENT LEADTIME: 3 MO

CONTRACT DATES: FY 1996: FY 1997: Nov-96 FY 1998: FY 1999:

DELIVERY DATES: FY 1996: FY 1997: Feb-97 FY 1998: FY 1999:

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT			2										
OUTPUT					2								

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT																		2
OUTPUT																		2

Note: 1/ This represents the total inventory objective.

Feb 1998

MODIFICATION TITLE: **SATCOM Shore Terminals** **NP117 Global Broadcast System (GBS)**

MODELS OF SYSTEMS AFFECTED: **Global Broadcast System**, Commercial off the Shelf (COTS) receive only satellite communications terminals with antennas, modems, and ancillary hardware and processing equipment

DESCRIPTION/JUSTIFICATION: Navy portio of joint services program to deliver continuous, high speed, one way information flow of high volume data to ship and shore units and special operations.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES Equipment is all commercial off the shelf (No development required)

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment							4	3.1			11	1.2	10	1.1	20	2.4	8	0.9	4	0.5	63	6.3	120	15.5
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware (See note below)							0	0.4	2	0.2	2	0.4	3	0.4	5	0.6	10	1.4	2	0.3	52	5.2	76	8.9
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP								0.4	2	0.2	2	0.4											4	1.0
FY 98 EQUIP																							0	0.0
FY 99 EQUIP													3	0.4									3	0.4
FY 00 EQUIP															5	0.6							5	0.6
FY 01 EQUIP																	10	1.4					10	1.4
FY 02 EQUIP																			2	0.3			2	0.3
FY 03 EQUIP																							0	0.0
FY TC EQUIP																					52	5.2	52	5.2
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.4		0.2		0.4		0.4		0.6		1.4		0.3		5.2	76	8.9
TOTAL COST		0.0		0.0		0.0		3.5		0.2		1.6		1.5		3.0		2.3		0.8		11.5		24.4

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: Various PROCUREMENT LEADTIME: Various

CONTRACT DATES: FY 1996: FY 1997: Nov-97 FY 1998: FY 1999: Nov-98

DELIVERY DATES: FY 1996: FY 1997: May-98 FY 1998: FY 1999: Mar-99

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT									2	2			
OUTPUT										2	2		

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT	2	1			2	3			2	2	3	3	2				52	76
OUTPUT		2	1			2	3			2	2	3	3	2			52	76

Note: The 44 unit delta between 120 bought and 76 installed is due to no installation requirement for units that are transportable training and backup units. These deltas begin with the FY99 procurements.

Feb 1998

MODIFICATION TITLE: **SATCOM Shore Terminals** **NP118 JMINI/ADNS**
MODELS OF SYSTEMS AFFECTED: Joint MILSATCOM Network Integrated Control System/ADNS
DESCRIPTION/JUSTIFICATION: Will provide dynamic centralized control of joint operable 5 KHz and 25 KHz ultra high frequency military satellite communications.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment									2	0.6	4	43.5	4	21.3	0	1.8							10	67.2
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*									2	0.1	4	8.2	4	3.8	0	0.3							10	12.4
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP																							0	0.0
FY 98 EQUIP									2	0.1													2	0.1
FY 99 EQUIP											4	8.2											4	8.2
FY 00 EQUIP													4	3.8									4	3.8
FY 01 EQUIP																0.3							0	0.3
FY 02 EQUIP																							0	0.0
FY 03 EQUIP																							0	0.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.1		8.2		3.8		0.3		0.0		0.0		0.0		12.4
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.0		0.7		51.7		25.1		2.1		0.0		0.0		0.0		79.6

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 1 month PROCUREMENT LEADTIME: 6-12 months

CONTRACT DATES: FY 1996: FY 1997: FY 1998: Oct-97 FY 1999: Oct-98

DELIVERY DATES: FY 1996: FY 1997: FY 1998: Sep-98 FY 1999: Mar-99

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT									2			2	2
OUTPUT									2				2

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT			2	2														10
OUTPUT	2			2	2													10

Note: FY98 consists of two 2 channel systems for training and ISEA support. Installation costs are minimal.
Note: FY00 and FY01 funds continue procurement and installation of channel systems for the four control stations.

UNCLASSIFIED
CLASSIFICATION

PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE: February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
SATCOM Shore Terminals

SUBHEAD NO.
52NP

COST CODE	ITEM/MANUFACTURER	FY	SERV	PROC QTY	ACCEP PRIOR TO 1-Oct	BAL DUE AS OF 1-Oct	FISCAL YEAR 96												FISCAL YEAR 97												FISCAL YEAR 98											
							PY			CALENDAR YEAR 96									CALENDAR YEAR 97												CALENDAR YEAR 98											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
NP101	Mini-DAMA	FY96		6		6							A												2	2	2															
NP103	SI COMMs-TACINTEL II	FY96		4		4							A			4																										
NP103	SI COMMs-TACINTEL II	FY97		7		7															A			7																		
NP103	SI COMMs-TACINTEL II	FY98		3		3																											A			3						
NP103	SCI/TACINTEL II+/ADNS	FY97		5		5															A			5																		
NP103	SCI/TACINTEL II+/ADNS	FY98		15		15																											A			15						
NP 105	5/25 KHz--UHF Modems	FY97		14		14																		A			14															
NP108	SHF AN/WSC-6(V)X	FY99		1		1																																				
NP108	SHF AN/WSC-4 Mod kits	FY99		1		1																																				
NP109	NECC/ADNS	FY97		9		9														A							4	4	1													
NP109	NECC/ADNS	FY98		3		3																										A						3				
NP109	NECC/ADNS	FY99		5		5																																				
NP109	EHF-Interim Polar Gateway	FY97		2		2														A			1	1																		
NP109	EHF-MDR	FY98		2		2																											A								1	1
NP109	EHF-MDR	FY99		5		5																																				
NP109	EHF-Term-AN/WSC-38(V)X3	FY99		13		13																																				
NP117	GBS Equipment Suite/Antenna	FY97		4		4																										A						4				
NP117	GBS Equipment Suite/Antenna	FY99		11		11																																				
NP118	JMINI/ADNS	FY98		2		2																									A											2
NP118	JMINI/ADNS	FY99		4		4																																				

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST
ITEM NO. 108 PAGE NO. 18

UNCLASSIFIED
CLASSIFICATION

UNCLASSIFIED
CLASSIFICATION

PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE: February 1998

APPROPRIATION/BUDGET ACTIVITY: OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE: SATCOM Shore Terminals

SUBHEAD NO.: 52NP

COST CODE	ITEM/MANUFACTURER/ PROCUREMENT YEAR	FISCAL YEAR	CARRY OVER	FISCAL YEAR 99												FISCAL YEAR 00												FISCAL YEAR 01												LATER
				CY98			CALENDAR YEAR 99												CALENDAR YEAR 00												CALENDAR YEAR 01									
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
NP101	DAMA/Mini-DAMA	FY96																																						0
NP103	SI COMMs-TACINTEL II	FY96																																						0
NP103	SI COMMs-TACINTEL II	FY97																																						0
NP103	SI COMMs-TACINTEL II	FY98																																						0
NP103	SCI/TACINTEL II+/ADNS	FY97																																						0
NP103	SCI/TACINTEL II+/ADNS	FY98																																						0
NP 105	5/25 KHz UHF Modems	FY97																																						0
NP108	SHF AN/WSC-6(V)X	FY99	1				A									1																								0
NP108	SHF AN/WSC-4 Mod kits	FY99	1				A												1																					0
NP109	NECC/ADNS	FY97																																						0
NP109	NECC/ADNS	FY98																																						0
NP109	NECC/ADNS	FY99	5		A							4	1																											0
NP109	EHF-Interim Polar Gateway	FY97																																						0
NP109	EHF-MDR	FY98																																						0
NP109	EHF-MDR	FY99	5				A																								1	1	1	1	1					0
NP109	EHF-Term-AN/WSC-38(V)X3	FY99	13				A					2	2	2	2	2	2	1																						
NP117	GBS Equipment Suite/Antenna	FY97	0																																					0
NP117	GBS Equipment Suite/Antenna	FY99	11		A				2	2	2	2	2	1																										0
NP118	JMINI/ADNS	FY98																																						0
NP118	JMINI/ADNS	FY99	4	A					2	2																														0
																																								0
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST
ITEM NO. 108 PAGE NO. 19

UNCLASSIFIED
CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
JCSE Communications Equipment 330200

SUBHEAD
52L4

	PY			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TO COMP	TOTAL
QUANTITY												
COST (in millions)	**$41.2**			**$1.9**	**$2.5**	**$3.4**	**$3.8**	**$3.6**	**$3.4**	**$3.1**	**Continuous**	**Continuous**

PROGRAM COVERAGE:

This is the Navy share of the Joint Communications Support Equipment (JCSE) Modernization Program. The total program is jointly funded by Army, Navy, Marine Corps and Air Force. Funds procure various communications equipment including the following: Ultra High Frequency (UHF) satellite communications (SATCOM) demand assigned multiple access (DAMA) radios, TYC-17A message processing and distribution system software modifications/enhancements, Extremely High Frequency (EHF) satellite terminals (both smart-T and scamp versions), TSEC/KIV-7s Encryption devices, SHF Tri-band advanced range extension terminals (STAR-T), global command and control system (GCCS) package upgrades, joint communications planning & management systems (JCPMS), mobile audodin remote terminal (MART), joint worldwide intelligence communication system (JWICS), GRC239 trupo, satellite support radios (TSSR), AN/TSQ-188(V) communications central, LST-8000 lightweight contingency satellite replacements for UYK-85A tempest ruggedized personal computers, manpack multi-mode multi-band radios for the quick reaction element, 20 foot quick reaction satellite antenna replacements, cellular phone systems serving between 300-400 subscribers, contractor off the shelf (COTS) replacements for SB-3614AT small switchboards, next generation multi-media switches and high data rate tactical satellite terminals and assorted switches transit cases multiplexers and antennas.

JUSTIFICATION OF BUDGET YEAR REQUIREMENTS:

FY 1998 and FY 1999 funds will be forwarded to the lead Service for the Navy's share of the JCSE Modernization Program as required by JCS.

INSTALLATION AGENT:
N/A

COST ANALYSIS

DATE February 1998

APPROPRIATION ACTIVITY OP,N - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE JCSE Communications Equipment 330200

SUBHEAD 52L4

			TOTAL COST IN THOUSANDS OF DOLLARS																
			PY		FY 1995			FY 1996			FY 1997			FY 1998			FY 1999		
COST CODE	ELEMENT OF COST	ID CODE	QTY	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
L4001	JCSE Modernization	A											1,906			2,542			3,363
	Various 1/																		
	TOTAL												**1,906**			**2,542**			**3,363**

1/ The amount identified against this cost element reflects total prior year funding associated with cost elements no longer financed in FY 1995 and beyond.

BUDGET ITEM JUSTIFICATION SHEET

DATE Feb-98

APPROPRIATION/BUDGET ACTIVITY
Other Procurement, Navy/BA-2

P-1 Nomenclature FY 1999 President's Budget
BLI: 3306 COMMUNICATIONS & ELECTRONIC EQUIPMENT

		FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (in thousands)		**$24.5**	**$20.0**	**$7.7**	**$.0**	**$.0**	**$2.9**	**$11.5**

PROGRAM COVERAGE/JUSTIFICATION FOR BUDGET YEAR REQUIREMENTS: The Navy Standard Integrated Personnel System (NSIPS) is a special-interest, major Automated Information System (AIS) to collect, process and distribute personnel and pay data within Navy and to various corporate level activities within DoD. NSIPS will operate Navy-wide, ashore and afloat. NSIPS will provide significant technology enhancement to Navy, provide an integrated approach to customer support of all Active, Reserve, and Retired personnel and will be Navy's only field-level data collection system for pay personnel transactions superceding various Navy and DoD systems.

The FY 1998 Congressional add of $20,023 is for the New Orleans area Reserve infrastructure which includes the following:

Application Control Center (ACC) is the physical plant that facilitates the implementation of a business process improvement philosophy for infrastructure called Enterprise Management (EM). EM includes activities under business process and rule planning, information technology (IT) planning, systems integration, IT solution management, and entails the capabilty to control all types of IT assets, systems, networks, databases, and applications through implementation of business processes and rules.

Migration System Support is to evaluate and maintain current personnel/manpower legacy systems for migration to NSIPS and the DoD objective systems and to establish requirements databases and developmental platforms for software incentive projects within the Navy and DoD.

University of New Orleans (UNO) facility is to provide initial outfitting equipment, communications, local area network equipment, software, hardware, and related infrastructure supporting requirements for information systems facilities.

Cable Plant Upgrade is to provide communications and LAN improvements to existing Naval Support Activity and Naval Air Station facilities.

The FY 1999 funding of $7,707 is for NSIPS field systems (workstations and servers) to be fully implemented prior to information technology 21st century timelines.

CLASSIFICATION

UNCLASSIFIED

PROGRAM COST BREAKDOWN
P-5

Date: Feb-98

Appropriation/Budget Activity	**P-1 Nomenclature**
Other Procurement, Navy/BA-2	BLI: 3306 COMMUNICATIONS & ELECTRONIC EQUIPMENT

TOTAL COST IN THOUSANDS OF DOLLARS

COST CODE	ELEMENT OF COST	IDENT CODE	QTY	FY 1997 TOTAL COST	QTY	FY 1998 TOTAL COST	QTY	FY 1999 TOTAL COST
VAR	NSIPS Equipment	3306		$24,477				$7,707
	Application Control Center					$7,250		
	Migration System Support					$1,073		
	UNO Facility					$7,300		
	Cable Plant Upgrade			-		$4,400		-
	TOTAL			$24477		$20023		$7707

P-1 SHOPP. LIST	PAGE NO.
110	2

PROCUREMENT HISTORY AND PLANNING

APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA-2 COMMUNICATIONS & ELECTRONIC EQUIPMENT							P-1 ITEM NOMENCLATURE NSIPS EQUIPMENT			
LINE ITEM FISCAL YEAR	CONTRACTOR	CONTRACT METHOD TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DEL	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV. REQ'D	IF YES, WHEN AVAIL
3306 FY 1997	TBD	IDIQ	FISC PA	Jan-98	Mar-98		$24,477	YES	NO	
ACC FY 1998	TBD	IDIQ	TBD	Mar-98	Jun-98		$7,250	YES	NO	
Migration FY 1998	TBD	IDIQ	TBD	Mar-98	Jun-98		$1,073	YES	NO	
UNO facility FY 1998	TBD	IDIQ	TBD	Mar-98	Jun-98		$7,300	YES	NO	
Cable Plant FY 1998	TBD	IDIQ	NCTAMSLANT	Mar-98	Jun-98		$4,400	YES	NO	
3306 FY 1999	TBD	IDIQ	TBD	Dec-98	Feb-99		$7,707	YES	NO	

(DOD EXHIBIT P-40)

OTHER PROCUREMENT, NAVY
BUDGET ITEM JUSTIFICATION SHEET

BUDGET ACTIVTY BA-2 JEDMICS						P-1 ITEM NOMENCLATURE JEDMICS SYSTEM EQUIPMENT	
QUANTITY	FY 97	FY 98	FY99	FY00	FY 01	FY02	FY 03
COST (in millions)	$4.1	$4.9	$0	$0	$0	$0	$0

JEDMICS is an effort to develop a centralized automated system to index, store, retrieve, and distribute technical drawings. The JEDMICS System replaces labor intensive, inefficient manual and semi-automated technical repositories with automated central repositories for all engineering and manufacturing information on ships, aircraft and electronics. This information is used by the fleet shore establishment and industry in support of spares acquisition, equipment maintenance, and modernization and preparation of technical publications.

JEDMICS was designated the DOD standard system for storing engineering drawings.

In FY 97, JEDMICS intends to upgrade Central Processing Units and Optical Disk Magnetic Storage Devices at 4 JEDMICS Repositories (MCLB Albany, NTSC Orlando, NADEP North Island and Portsmouth NSY).

FY 98 funding will be used to expand electronic commerce and electronic data interchange by enhancing security between JEDMICS and wide area networks which transport JEDMICS digital engineering data. This enhanced security will allow DOD to use Internet type technology to share electronic drawings for Military Critical Items throughout DOD and its authorized industry partners. Funds will procure a COTS product called VS-Net Diamond TEK ULTRA for 7000 users. This product is added to existing hardware and networks to build a heterogeneous B2 security solution capable of supporting types of hardware and operating systems. Items will be procured using an existing GSA schedule with CRYPTEK, Secure Communications.

UNCLASSIFIED
CLASSIFICATION

APPROPRIATION OTHER PROCUREMENT, NAVY	**PROGRAM COST BREAKDOWN**	(DOD Exhibit P-5)
BUDGET ACTIVITY BA-2 JEDMICS	P-1 ITEM NOMENCLATURE JEDMICS	SUBHEAD NO. 92JE

TOTAL COST IN THOUSANDS OF DOLLARS

COST CODE	ELEMENT OF COST	IDENT CODE		FY 1997 QTY	FY 1997 TOTAL COST	FY 1998 QTY	FY 1998 TOTAL COST	FY 1999 QTY	FY 1999 TOTAL COST
J0001	JEDMICS REPOSITORY COTS/HW UPGRADE	3311		25	$4,094,650	7000	$4,883,000	0	0

P-1 SHOPP. LIST	PAGE NO.
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PROCUREMENT HISTORY AND PLANNING

APPROPRIATION/BUDGET ACTIVITY
OTHER PROCUREMENT, NAVY/BA-6 SUPPLY SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE
JEDMICS SYSTEMS

LINE ITEM FISCAL YEAR	CONTRACTOR	CONTRACT METHOD TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DEL	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV. REQ'D	IF YES, WHEN AVAIL
J0001A FY 1997	Silicon Graphics	GSA Schedule	NAVICP	Jan-97	Apr-97	8	$360,956	YES	NO	
J0001B FY 1997	PRC	GSA Schedule	NAVICP	Mar-97	Sep-97	4	$65,788	YES	NO	
J0001C FY 1997	PRC	GSA Schedule	NAVICP	Jul-97	Oct-97	2	$54,750	YES	NO	
J0001D FY 1997	KOTTMAN	GSA Schedule	NAVICP	Apr-97	Jul-97	11	$75,850	YES	NO	
J0001A	CRYPTEC	GSA Schedule	NAVICP	Feb-98	May-98	7000	$698	YES	NO	

BUDGET ITEM JUSTIFICATION SHEET

DATE Feb. 1998

APPROPRIATION/BUDGET ACTIVITY	**P-1 ITEM NOMENCLATURE**	**SUBHEAD**
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	GCCS (#3350)	Subhead 52NW

	PY			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TO COMP	TOTAL
QUANTITY												
COST (in millions)	**Unable to Define**			**$2.7**	**$1.5**	**$2.9**	**$3.2**	**$3.3**	**$5.1**	**$3.8**	**CONT.**	**CONT.**

PROGRAM COVERAGE/JUSTIFICATION FOR BUDGET YEAR REQUIREMENTS:
This line item contains equipment to support the Global Command and Control System (GCCS). GCCS is an operational multi-service/agency C3 program encompassing both strategic and tactical C3 functions. GCCS supports the National Command Authority (NCA) and the CINCs by providing Command, Control and Communication (C3) data processing capabilities, including status of forces and support requirements for use in national security decision making, force preparation and operational planning execution. The Navy's procurement provides equipment to support the GCCS Automated Data Processing Equipment (ADPE) configuration at USCINCPAC, CINCPACFLT, CINCUSNAVEUR, CNO, USACOM, CINCLANTFLT, NAVCENTCOM, NAVSPACECOM, NAVSPECWARCOM, and COMUSJAPAN, and their remote user sites. All procurements will directly support Navy GCCS and is in accordance with Joint Staff direction. GCCS consists of standard hardware, standard software, and service/site unique software. GCCS is an open systems client-server environment using COTS and NDI software and hardware and service/site unique software. Procurements will include Intelligent Workstations to replace obsolete terminals, Servers, Local Area Network (LAN) hardware and software and communications equipment.

INSTALLATION DATA: All equipment is scheduled for installation at Navy supported GCCS shore sites, Fleet flagships, and all CV/CVN and flag configured Amphib ships.

FY 97 funds provided Intelligent Workstations, Servers LAN hardware and software, communications equipment, as well as FMP and Non-FMP installations for equipment installations.
FY 98 funds will provide Intelligent Workstations, Servers LAN hardware and software, communications equipment, as well as Non-FMP installations for equipment installations .
FY 99 funds will provide Intelligent Workstations, Servers LAN hardware and software, communications equipment, as well as Non-FMP installations for equipment installations.

COST ANALYSIS

DATE: Feb. 1998

APPROPRIATION ACTIVITY: OP,N - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE: GCCS (#3350)

SUBHEAD: Subhead 52NW

COST CODE	ELEMENT OF COST	ID CODE	TOTAL COST IN THOUSANDS OF DOLLARS																
			PY		FY 1995			FY 1996			FY 1997			FY 1998			FY 1999		
			QTY	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
NW036	GCCS Supt Equipment	A									29		1,993	6		878	11		1,694
NW776	Non-FMP Installation	A									7		552	6		648	11		1,250
NW777	FMP Installation	A									22		185						
	Note: QTY represents 'sites' not items of equipment																		
	TOTAL												**2,730**			**1,526**			**2,944**

Feb. 1998

MODIFICATION TITLE: Global Command and Control System(GCCS) (52NW) (FMP)
MODELS OF SYSTEMS AFFECTED: N/A
DESCRIPTION/JUSTIFICATION: GCCS is an operational multi-service/agency program. GCCS supports the National Command Authority (NCA) and the CINC's by providing Command, Control and Communication (C3) data processing capabillities including status of forces and support requirements for use in security decision making, force preparation and operational planning execution. Equipment is required for Fleet Flagships, all CV/CVNs, and flag configured Amphibs. Equipment/systems include intelligent workstations, servers, LAN hardware and software, and communications equipment.
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: N/A
FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment	VAR	0.2	VAR	0.2	VAR	0.3	VAR	0.2															VAR	0.9
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	3	0.4	8	0.3	12	0.1	22	0.2															45	1.0
PRIOR YR EQUIP	3	0.4																					3	0.4
FY 95 EQUIP			8	0.3																			8	0.3
FY 96 EQUIP					12	0.1																	12	0.1
FY 97 EQUIP							22	0.2															22	0.2
FY 98 EQUIP																								
FY 99 EQUIP																								
FY 00 EQUIP																								
FY 01 EQUIP																								
FY 02 EQUIP																								
FY 03 EQUIP																								
FY TC EQUIP																								
TOTAL INSTALLATION COST	3	0.4	8	0.3	12	0.1	22	0.2															45	1.0
TOTAL PROCUREMENT COST	VAR	0.6	VAR	0.5	VAR	0.4	VAR	0.4															VAR	1.9

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 1 Month PROCUREMENT LEADTIME: 2 Months

CONTRACT DATES: FY 1996: VAR FY 1997: VAR FY 1998: FY 1999: FY 2000: FY 2001:

DELIVERY DATES: FY 1996: VAR FY 1997: VAR FY 1998: FY 1999: FY 2000: FY 2001:

INSTALLATION SCHEDULE:	PY	FY 97				FY 98				FY 99			
		1	2	3	4	1	2	3	4	1	2	3	4
INPUT	23	6	5	5	6								
OUTPUT	23	6	5	5	6								

INSTALLATION SCHEDULE:	FY 00				FY 01				FY 02				FY 03				TC	TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
INPUT																		45
OUTPUT																		45

* Install Quantity Indicates Sites

Feb. 1998

MODIFICATION TITLE: Global Command and Control System(GCCS) (52NW) (Non-FMP)
MODELS OF SYSTEMS AFFECTED: N/A
DESCRIPTION/JUSTIFICATION: GCCS is an operational multi-service/agency program. GCCS supports the National Command Authority (NCA) and the CINC's by providing Command, Control and Communication (C3) data processing capabillities including status of forces and support requirements for use in security decision making, force preparation and operational planning execution. Equipment is Scheduled for installation at Navy supported GCCS shore sites, NAVCENTCOM, USACOM, CNO, COMUSJAPAN, and CINCUSNAVEUR. Procurements includes intelligent workstations, servers, LAN hardware and software, and communications equipment.
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: N/A
FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment	VAR	9.8	VAR	1.5	VAR	0.8	VAR	1.7	VAR	0.9	VAR	1.7	VAR	2.0	VAR	2.0	VAR	3.8	VAR	2.5		CONT		CONT
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware (Non-FMP)*	7	3.6	5	1.7	7	1.0	7	0.6	6	0.6	11	1.2	11	1.2	11	1.3	11	1.3	11	1.3		CONT		CONT
PRIOR YR EQUIP	7	3.6																						
FY 95 EQUIP			5	1.7																				
FY 96 EQUIP					7	1.0																		
FY 97 EQUIP							7	0.6																
FY 98 EQUIP									6	0.6														
FY 99 EQUIP											11	1.2												
FY 00 EQUIP													11	1.2										
FY 01 EQUIP															11	1.3								
FY 02 EQUIP																	11	1.3						
FY 03 EQUIP																			11	1.3				
FY TC EQUIP																								
TOTAL INSTALLATION COST	7	3.6	5	1.7	7	1.0	7	0.6	6	0.6	11	1.2	11	1.2	11	1.3	11	1.3	11	1.3		CONT		CONT
TOTAL PROCUREMENT COST	VAR	13.4	VAR	3.2	VAR	1.8	VAR	2.3	VAR	1.5	VAR	2.9	VAR	3.2	VAR	3.3	VAR	5.1	VAR	3.8		CONT		CONT

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 1 Month PROCUREMENT LEADTIME: 2 Months

CONTRACT DATES:	FY 1996:	OCT	FY 1997:	OCT	FY 1998:	OCT	FY 1999:	OCT	FY 2000:	OCT	FY 2001:	OCT
DELIVERY DATES:	FY 1996:	DEC	FY 1997:	DEC	FY 1998:	DEC	FY 1999:	DEC	FY 2000:	DEC	FY 2001:	DEC

INSTALLATION SCHEDULE:	PY	FY 97				FY 98				FY 99			
		1	2	3	4	1	2	3	4	1	2	3	4
INPUT	19	4	1	1	1	4	1	1		3	3	3	2
OUTPUT	19	2	2	2	1	4	1	1		3	3	3	2

INSTALLATION SCHEDULE:	FY 00				FY 01				FY 02				FY 03				TC	TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
INPUT	3	3	3	2	3	3	3	2	3	3	3	2	3	3	3	2	CONT	CONT
OUTPUT	3	3	3	2	3	3	3	2	3	3	3	2	3	3	3	2	CONT	CONT

* Install Quantity Indicates Sites

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
BLI: 3368 NAVAL SHORE COMMUNICATIONS

SUBHEAD
52D6

	PY			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TO COMP	TOTAL
QUANTITY												
COST (in millions)	**$73.1**			**$42.8**	**$99.2**	**$113.5**	**$138.1**	**$119.9**	**$129.6**	**$157.1**	**Cont.**	**Cont.**

PROGRAM COVERAGE/JUSTIFICATION FOR BUDGET YEAR REQUIREMENTS: The Naval Shore Communications program procures and installs communications equipment at shore stations. The equipment upgrades and/or replaces existing systems that are inadequate in mission performance due to obsolescence or cost-prohibitive maintenance. New equipment is predominately non-developmental items (NDI)/ commercial off the shelf (COTS) and provides maximum automated capabilities to accommodate remote control systems from unmanned or minimally manned locations.

(1) Information Exchange Systems (D6001): The purpose of the information exchange systems is to provide a transparent, completely automated, interoperable, and integrated shore communications environment which will expedite an orderly transition to Global Grid. Information exchange systems will result in increased throughput via faster system processing speeds and more capable end terminal devices. Additionally, Information Exchange Systems will accomplish more efficient upgrades through the use of modularity and backward-compatible technology applications. Information Exchange Systems consists of the Defense Messaging System (DMS) and Technical Control Upgrade (TCU).

Defense Messaging System: DMS will replace the present AUTODIN/TCC message delivery architecture with a single messaging system with seamless strategic and tactical interoperability. The DMS program provides for the planning, analysis, procurement, integration, implementation, and installation of the DMS components at approximately 8,500 activities worldwide.

Technical Control Upgrade: TCU provides for the shore segment interconnect of an end-to-end dynamic bandwidth management, Internet Protocol, and Channel Access Protocol capability to deploying Battle Groups/Amphibious Ready Groups and other support units. Automates the major shore nodes which allow network centric and lights-out operations. Tech Control Upgrade is the key enabling mechanism for the execution of the JMCOMS/ADNS strategy which is essential to meeting the IT21 vision.

(2) Transmission Systems (D6002): Transmission Systems projects provide a broad range of Navy shore communications enhancements. As the Defense Communications System (DCS) backbone evolves toward a totally digital environment, Navy transmission systems must be upgraded, modified, and replaced with digital systems. Transmission Systems consists of the Shore Remote Control System (SRC), the Automated Digital Multiplexer System(ADMS) and Terrestrial Connectivity (TC).

BUDGET ITEM JUSTIFICATION SHEET		DATE February 1998
APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	P-1 ITEM NOMENCLATURE BLI: 3368 NAVAL SHORE COMMUNICATIONS	SUBHEAD 52D6

Shore Remote Control Systems: SRCS automates and remotely controls communications, switching and quality monitoring equipment which eliminates manual operations.

Automated Digital Multiplexer System: ADMS is an automated network management capability which is fully compatible with various switching technologies and in compliance with national and international standards.

Terestrial Connectivity: TC enhances current and future C4I operational requirements by providing interoperability/redundant links to enhance survivability and reduces effects of jamming and destruction.

(3) Shore Life Cycle Support (D6004): Procures equipment necessary to enhance existing Naval Shore Communications equipment .

(4) Base Level Information Infrastructure (D6005): Procures outside cable plant, base interconnect point, digital switch, and network management system equipment to provide voice, video, and data connectivity from the Defense Information System Network Service Delivery Point to the tenant command building entry point.

(5) Equipment Installation (D6776): Installs the above procured equipment at shore stations worldwide. Installations include quality assurance, test evaluation, and as-built drawings.

JUSTIFICATION OF BUDGET YEAR REQUIREMENTS: Defense Communication System Six Year Plan

INSTALLING AGENTS: SPAWAR engineering field activities

COST ANALYSIS

DATE: February 1998

B. APPROPRIATION/BUDGET ACTIVITY: OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BLI: 3368 NAVAL SHORE COMMUNICATIONS

SUBHEAD: 52D6

COST CODE	ELEMENT OF COST	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS											
			PY		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999	
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
D6001	Information Exchange Systems	A								16,132		27,483		31,527
D6002	Transmission Systems	A								4,044		4,969		5,862
D6003	Comm Area Control	A												
D6004	Shore Life Cycle Support	A								444		201		342
D6005	Base Level Information Infrastructure	A								8,115		44,627		30,365
D6776	Non-FMP Installation	A								14,109		21,875		40,276
D6006	Joint War Fighting Center	A												2,474
D6007	Joint Battle Center	A												2,700
	TOTAL PROGRAM									**42,844**		**99,155**		**113,546**

PROCUREMENT HISTORY AND PLANNING

A. DATE February 1998

B. APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

C. P-1 ITEM NOMENCLATURE BLI: 3368 NAVAL SHORE COMMUNICATIONS

SUBHEAD 52D6

COST CODE	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
D6001	Tech Control Upgrade	97	NISE EAST	C/FP-O	SPAWAR	Sep-96	Dec-96	May-97	4	$450,500	Yes	N/A
		98	NRaD	C/FP-O	SPAWAR	Sep-97	Dec-97	May-98	4	$1,501,750	Yes	N/A
		99	NRaD	C/FP-O	SPAWAR	Sep-98	Dec-98	May-99	4	$1,378,500	Yes	N/A
D6001	Defense Messaging System	97	Lockheed Martin, Manassas VA	C/FP-O	Maxwell AFB, Guntor Annex, AL	Mar-94	Oct-96	Mar-97	4	$3,582,500	Yes	N/A
		98	Lockheed Martin, Manassas VA	C/FP-O	Maxwell AFB, Guntor Annex, AL	Mar-94	Oct-97	Mar-98	4	$5,369,000	Yes	N/A
		99	Lockheed Martin, Manassas VA	C/FP-O	Maxwell AFB, Guntor Annex, AL	Mar-94	Oct-98	Mar-99	4	$6,503,250	Yes	N/A
D6002	Shore Remote Control Systems (SRCS)	97	NISE EAST	C/FP-O	SPAWAR	Sep-96	Dec-96	May-97	4	$365,000	Yes	N/A
		98	NRaD	C/FP-O	SPAWAR	Sep-97	Dec-97	May-98	4	$586,750	Yes	N/A
		99	NRaD	C/FP-O	SPAWAR	Sep-98	Dec-98	May-99	4	$781,250	Yes	N/A
D6002	Automated Digital Mutiplexer System (ADMS)	97	NISE EAST	C/FP-O	SPAWAR	Sep-96	Dec-96	May-97	4	$572,750	Yes	N/A
		98	NRaD	C/FP-O	SPAWAR	Sep-97	Dec-97	May-98	4	$586,500	Yes	N/A
		99	NRaD	C/FP-O	SPAWAR	Sep-98	Dec-98	May-99	4	$611,000	Yes	N/A
D6002	Terestrial Connectivity	97	Various	Var	Various	Var	Var	Var	4	$73,250	Yes	N/A
		98	NRaD	C/TBD	DISA, Arlington VA	Sep-96	Oct-97	Feb-98	4	$69,000	Yes	N/A
		99	NRaD	C/TBD-O	DISA, Arlington VA	Sep-96	Oct-98	Feb-99	4	$73,250	Yes	N/A
D6004	Shore Life Cycle Support	97	NISE EAST	C/FP-O	SPAWAR	Sep-96	Dec-96	May-97	4	$111,000	Yes	N/A
		98	NRaD	C/FP-O	SPAWAR	Sep-97	Dec-97	May-98	4	$50,250	Yes	N/A
		99	NRaD	C/FP-O	SPAWAR	Sep-98	Dec-98	May-99	4	$85,500	Yes	N/A
D6005	Base Level Information Infrastructure (BLII)	97	Various	Var	Various	Var	Var	Var	4	$2,028,750		
		98	TBD	C/TBD	DISA, Arlington VA	Sep-96	Oct-97	Feb-98	4	$11,156,750	Yes	N/A
		99	TBD	C/TBD-O	DISA, Arlington VA	Sep-96	Oct-98	Feb-99	6	$5,060,833	Yes	N/A

D. REMARKS

D6002 - In FY96 and FY97 field activities purchased Terestrial Connectivity Equipment using various existing contracts.
D6005 - In FY97 field activities purchased BLII equipment using various existing contracts.

NOTE: Quantities reflect areas of coverage and costs vary by site requirements and configuration.

Feb-98

MODIFICATION TITLE: Tech Control Upgrade (D6001)
MODELS OF SYSTEMS AFFECTED: ANCC/ATC Patch and Test Facilities
DESCRIPTION/JUSTIFICATION: Modifications to operational ANCC/ATCs to maintain current technology; modernization of manual patch and test facilities.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment	2	6.0	4	4.5	4	6.9	4	1.8	4	6.0	4	5.5	4	5.7	4	6.3	4	6.4	4	6.3			38	* 55.4
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	2	0.1	4	1.1	4	2.0	4	0.3	4	0.6	4	2.6	4	2.4	4	2.7	4	2.7	4	2.6			38	17.0
PRIOR YR EQUIP	2	0.1																					2	0.1
FY 95 EQUIP			4	1.1																			4	1.1
FY 96 EQUIP					4	2.0																	4	1.1
FY 97 EQUIP							4	0.3															4	2.0
FY 98 EQUIP									4	0.6													4	0.3
FY 99 EQUIP											4	2.6											4	0.6
FY 00 EQUIP													4	2.4									4	2.6
FY 01 EQUIP															4	2.7							4	2.4
FY 02 EQUIP																	4	2.7					4	2.7
FY 03 EQUIP																			4	2.6			4	2.7
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.1		1.1		2.0		0.3		0.6		2.6		2.4		2.7		2.7		2.6		0.0		17.0
TOTAL PROCUREMENT COST		6.1		5.6		8.9		2.1		6.6		8.1		8.1		9.0		9.1		8.9		0.0		72.4

METHOD OF IMPLEMENTATION: EFA Install ADMINISTRATIVE LEADTIME: 2 MO PROCUREMENT LEADTIME: 4 MO

CONTRACT DATES: FY 1996: Dec-95 FY 1997: Dec-96 FY 1998: Dec-97 FY 1999: Dec-98

DELIVERY DATES: FY 1996: May-96 FY 1997: May-97 FY 1998: May-98 FY 1999: May-99

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	4
INPUT	10			4				4				4	
OUTPUT	10				4				4				4

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT			4				4				4				4		Cont.	38
OUTPUT				4				4				4				4	Cont.	38

Quantities reflect the following areas of coverage:
Med, Lant, Eastpac, and Westpac.
Costs vary by site requirements and configuration.

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P-3A Exhibit
UNCLASSIFIED

* Total quantity meets inventory objective. Program continues indefinitely.

Feb-98

MODIFICATION TITLE: Defense Messaging System (D6001)
MODELS OF SYSTEMS AFFECTED: Various
DESCRIPTION/JUSTIFICATION: State of the art technologies for messaging functions which will replace AUTODIN. Quantities reflect areas of coverage (East Conus,West Conus, Pac & Med).
DMS will procure and install at 299 worldwide sites (8,500 individual activities) Costs vary by site size, requirements and configuration.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment	4	7.7	4	7.7	4	8.2	4	14.3	4	21.5	4	26.0	4	34.8	4	13.6	4	12.4	4	10.1			40	* 156.4
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	4	0.2	4	2.9	4	3.3	4	2.9	4	6.5	4	7.8	4	9.7	4	4.6	4	4.2	4	3.6			40	45.7
PRIOR YR EQUIP	4	0.2																					4	0.2
FY 95 EQUIP			4	2.9																			4	2.9
FY 96 EQUIP					4	3.3																	4	3.3
FY 97 EQUIP							4	2.9															4	2.9
FY 98 EQUIP									4	6.5													4	6.5
FY 99 EQUIP											4	7.8											4	7.8
FY 00 EQUIP													4	9.7									4	9.7
FY 01 EQUIP															4	4.6							4	4.6
FY 02 EQUIP																	4	4.2					4	4.2
FY 03 EQUIP																			4	3.6			4	3.6
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.2		2.9		3.3		2.9		6.5		7.8		9.7		4.6		4.2		3.6		0.0		45.7
TOTAL PROCUREMENT COST		7.9		10.6		11.5		17.2		28.0		33.9		44.5		18.2		16.6		13.7		0.0		202.0

METHOD OF IMPLEMENTATION: EFA Install ADMINISTRATIVE LEADTIME: 4 MO PROCUREMENT LEADTIME: 2 MO

CONTRACT DATES: FY 1996: Oct-95 FY 1997: Oct-96 FY 1998: Oct-97 FY 1999: Oct-98

DELIVERY DATES: FY 1996: Mar-96 FY 1997: Mar-97 FY 1998: Mar-98 FY 1999: Mar-99

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	12		4				4				4		
OUTPUT	12				4				4				4

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT		4				4				4				4			Cont.	40
OUTPUT				4				4				4				4	Cont.	40

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P-3A Exhibit

* Total quantity meets inventory objective. Program continues indefinitely.

Feb-98

MODIFICATION TITLE: Shore Remote Control Systems (D6002)
MODELS OF SYSTEMS AFFECTED: Various transmission media.
DESCRIPTION/JUSTIFICATION: Automates and remotely controls communications, switching, and quality monitoring equipment which eliminates manual operations.
Quantities reflect the following areas of coverage: Med, Lant, Eastpac & Westpac. Costs vary by site size, requirements and configuration.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment	0	0.7	4	0.8	4	1.3	4	1.5	4	2.3	4	3.1	4	3.1	4	3.7	4	3.8	4	3.8			36 *	24.1
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	0	0.0	4	0.3	4	0.6	4	0.6	4	0.8	4	1.8	4	1.5	4	1.6	4	1.6	4	1.6			36	10.5
PRIOR YR EQUIP		0.0																					0	0.0
FY 95 EQUIP			4	0.3																			0	0.3
FY 96 EQUIP					4	0.6																	4	0.3
FY 97 EQUIP							4	0.6															4	0.6
FY 98 EQUIP									4	0.8													4	0.6
FY 99 EQUIP											4	1.8											4	0.8
FY 00 EQUIP													4	1.5									4	1.8
FY 01 EQUIP															4	1.6							4	1.5
FY 02 EQUIP																	4	1.6					4	1.6
FY 03 EQUIP																			4	1.6			4	1.6
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		0.3		0.6		0.6		0.8		1.8		1.5		1.6		1.6		1.6		0.0		10.5
TOTAL PROCUREMENT COST		0.7		1.1		1.9		2.0		3.1		5.0		4.6		5.3		5.4		5.5		0.0		34.6

METHOD OF IMPLEMENTATION: EFA Install ADMINISTRATIVE LEADTIME: 2 mo PROCUREMENT LEADTIME: 4 mo

CONTRACT DATES: FY 1996: Dec-95 FY 1997: Dec-96 FY 1998: Dec-97 FY 1999: Dec-98

DELIVERY DATES: FY 1996: May-96 FY 1997: May-97 FY 1998: May-98 FY 1999: May-99

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	8			4				4				4	
OUTPUT	8				4				4				4

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT			4				4				4				4		Cont.	36
OUTPUT				4				4				4				4	Cont.	36

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* Total quantity meets inventory objective. Program continues indefinitely.

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MODIFICATION TITLE: Automated Digital Multiplexer System (D6002)
MODELS OF SYSTEMS AFFECTED: Various transmission and network management systems.
DESCRIPTION/JUSTIFICATION: Automated network management capability which is fully compatible with various switching technologies and in compliance with national and international standards.
Quantities reflect the following areas of coverage: Med, Lant, Eastpac & Westpac. Costs vary by site size, requirements and configuration.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment			0	0.7	4	2.3	4	2.3	4	2.3	4	2.4	4	2.2	4	1.9	4	1.9	4	2.0			32 *	18.1
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	4	0.5	4	2.0	4	2.0	4	1.1	4	0.9	4	0.8	4	0.8	4	0.8			32	8.9
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP					4	0.5																	0	0.0
FY 97 EQUIP							4	2.0															4	0.5
FY 98 EQUIP									4	2.0													4	2.0
FY 99 EQUIP											4	1.1											4	2.0
FY 00 EQUIP													4	0.9									4	1.1
FY 01 EQUIP															4	0.8							4	0.9
FY 02 EQUIP																	4	0.8					4	0.8
FY 03 EQUIP																			4	0.8			4	0.8
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		0.0		0.5		2.0		2.0		1.1		0.9		0.8		0.8		0.8		0.0		8.9
TOTAL PROCUREMENT COST		0.0		0.7		2.8		4.3		4.3		3.5		3.1		2.7		2.7		2.8		0.0		26.9

METHOD OF IMPLEMENTATION: EFA Install ADMINISTRATIVE LEADTIME: 2 mo PROCUREMENT LEADTIME: 4 mo

CONTRACT DATES: FY 1996: Dec-95 FY 1997: Dec-96 FY 1998: Dec-97 FY 1999: Dec-98

DELIVERY DATES: FY 1996: May-96 FY 1997: May-97 FY 1998: May-98 FY 1999: May-99

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	4			4				4				4	
OUTPUT	4				4				4				4

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT			4				4				4				4		Cont.	32
OUTPUT				4				4				4				4	Cont.	32

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* Total quantity meets inventory objective. Program continues indefinitely.

MODIFICATION TITLE: Comm Area Control (D6003)
MODELS OF SYSTEMS AFFECTED: Various
DESCRIPTION/JUSTIFICATION: Installs equipment in support of joint initiatives that are voted on by the U.S. Military Communications Electronics Board and/or the Joint Chiefs of Staff.
Quantities reflect the following areas of coverage: Med, Lant, Eastpac & Westpac. Costs vary by site size, requirements and configuration.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment	0	0.8	4	4.4	1	0.9																	5 *	6.1
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	0	0.0	4	3.7	1	4.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0			5	7.9
PRIOR YR EQUIP		0.0																					0	0.0
FY 95 EQUIP			4	3.7																			4	3.7
FY 96 EQUIP					1	4.1																	1	4.1
FY 97 EQUIP																							0	0.0
FY 98 EQUIP																							0	0.0
FY 99 EQUIP																							0	0.0
FY 00 EQUIP																							0	0.0
FY 01 EQUIP																							0	0.0
FY 02 EQUIP																							0	0.0
FY 03 EQUIP																							0	0.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		3.7		4.1		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		7.9
TOTAL PROCUREMENT COST		0.9		8.1		5.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		14.0

METHOD OF IMPLEMENTATION: EFA Install ADMINISTRATIVE LEADTIME: 4 mo PROCUREMENT LEADTIME: 2 mo

CONTRACT DATES: FY 1996: Nov-95 FY 1997: FY 1998: FY 1999:

DELIVERY DATES: FY 1996: Feb-96 FY 1997: FY 1998: FY 1999:

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	5												
OUTPUT	5												

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT																		5
OUTPUT																		5

* Total quantity meets inventory objective. Program continues indefinitely.

MODIFICATION TITLE: Terrestrial Connectivity (D6002)
MODELS OF SYSTEMS AFFECTED: Various transmission media.
DESCRIPTION/JUSTIFICATION: Enhances current and future C4I operational requirements by providing interoperability/redundant links to enhance survivability and reduce effects of jamming and destruction.
Quantities reflect the following areas of coverage: Med, Lant, Eastpac & Westpac. Costs vary by site size, requirements and configuration.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment			4	0.1	4	0.1	4	0.3	4	0.3	4	0.3	4	0.3	4	0.3	4	0.3	4	0.3			36 *	2.2
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	0	0.0	4	0.1	4	0.4	4	0.1	4	0.1	4	0.1	4	0.1	4	0.1	4	0.1	4	0.1			36	1.2
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP			4	0.1																			4	0.1
FY 96 EQUIP					4	0.4																	4	0.4
FY 97 EQUIP							4	0.1															4	0.1
FY 98 EQUIP									4	0.1													4	0.1
FY 99 EQUIP											4	0.1											4	0.1
FY 00 EQUIP													4	0.1									4	0.1
FY 01 EQUIP															4	0.1							4	0.1
FY 02 EQUIP																	4	0.1					4	0.1
FY 03 EQUIP																			4	0.1			4	0.1
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		0.1		0.4		0.1		0.1		0.1		0.1		0.1		0.1		0.1		0.0		1.2
TOTAL PROCUREMENT COST		0.0		0.2		0.5		0.4		0.4		0.4		0.4		0.4		0.4		0.4		0.0		3.5

METHOD OF IMPLEMENTATION: EFA Install ADMINISTRATIVE LEADTIME: 4 mo PROCUREMENT LEADTIME: 2 mo

CONTRACT DATES: FY 1996: var FY 1997: var FY 1998: Oct-97 FY 1999: Oct-98

DELIVERY DATES: FY 1996: var FY 1997: var FY 1998: Feb-98 FY 1999: Feb-99

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	8			4				4				4	
OUTPUT	8				4				4				4

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT			4				4				4				4		Cont.	36
OUTPUT				4				4				4				4	Cont.	36

* Total quantity meets inventory objective. Program continues indefinitely.

MODIFICATION TITLE: Shore Life Cycle Support (D6004)
MODELS OF SYSTEMS AFFECTED: Various
DESCRIPTION/JUSTIFICATION: Procures equipment necessary to enhance existing equipment or to sufficiently meet operational requirements at shore sites worldwide.
Quantities reflect the following areas of coverage: Med, Lant, Eastpac & Westpac. Costs vary by site size, requirements and configuration.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment					4	0.6	4	0.4	4	0.2	4	0.3	4	0.3	4	0.3	4	0.3	4	0.3			28 *	2.9
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	4	0.3	4	0.1	4	0.3	4	0.3	4	0.3	4	0.3	4	0.3			28	1.9
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP							4	0.3															4	0.3
FY 97 EQUIP									4	0.1													4	0.3
FY 98 EQUIP											4	0.3											4	0.1
FY 99 EQUIP													4	0.3									4	0.3
FY 00 EQUIP															4	0.3							4	0.3
FY 01 EQUIP																	4	0.3					4	0.3
FY 02 EQUIP																			4	0.3			4	0.3
FY 03 EQUIP																							4	0.3
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.3		0.1		0.3		0.3		0.3		0.3		0.3		0.0		1.9
TOTAL PROCUREMENT COST		0.0		0.0		0.6		0.7		0.3		0.6		0.6		0.6		0.6		0.6		0.0		4.8

METHOD OF IMPLEMENTATION: EFA Install ADMINISTRATIVE LEADTIME: 1 mo PROCUREMENT LEADTIME: 1 mo

CONTRACT DATES: FY 1996: Dec-95 FY 1997: Dec-96 FY 1998: Dec-97 FY 1999: Dec-98

DELIVERY DATES: FY 1996: May-96 FY 1997: May-97 FY 1998: May-98 FY 1999: May-99

INSTALLATION SCHEDULE:	PY	FY 97 1	2	3	4	FY 98 1	2	3	4	FY 99 1	2	3	4
INPUT				4				4				4	
OUTPUT					4				4				4

INSTALLATION SCHEDULE:	FY 00 1	2	3	4	FY 01 1	2	3	4	FY 02 1	2	3	4	FY 03 1	2	3	4	TC	TOTAL
INPUT			4				4				4				4		Cont.	28
OUTPUT				4				4				4				4	Cont.	28

* Total quantity meets inventory objective. Program continues indefinitely.

Feb-98

MODIFICATION TITLE: Base Level Information Infrastructure (D6005)
MODELS OF SYSTEMS AFFECTED: All ship and shore voice, video, and data requirements.
DESCRIPTION/JUSTIFICATION: Procures outside cable plant, base interconnect point, digital switch, and network management system equipment to provide voice, video, and data connectivity from the Defense Information System Network Service Delivery Point to the tenant command building entry point. Quantities reflect areas. Prior 4 areas are Med, Lant, Eastpac & Westpac. The 6 future areas are Metropolitan Area Networks (MAN) , Tidewater, Pacific Northwest, Jacksonville, Northeast, San Diego & Oahu. Costs vary by site size, requirements and configuration.

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment							4	8.1	4	44.6	6	30.4	3	43.5	3	47.7	4	51.0	4	66.6			28	* 291.8
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	4	8.0	4	11.8	6	26.5	3	33.0	3	35.7	4	41.1	4	56.2			28	212.4
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP																							0	0.0
FY 97 EQUIP							4	8.0															4	8.0
FY 98 EQUIP									4	11.8													4	11.8
FY 99 EQUIP											6	26.5											6	26.5
FY 00 EQUIP													3	33.0									3	33.0
FY 01 EQUIP															3	35.7							3	35.7
FY 02 EQUIP																	4	41.1					4	41.1
FY 03 EQUIP																			4	56.2			4	56.2
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		0.0		0.0		8.0		11.8		26.5		33.0		35.7		41.1		56.2		0.0		212.4
TOTAL PROCUREMENT COST		0.0		0.0		0.0		16.1		56.4		56.9		76.5		83.4		92.1		122.8		0.0		504.2

METHOD OF IMPLEMENTATION: EFA Installation ADMINISTRATIVE LEADTIME: 3 mo PROCUREMENT LEADTIME: 2 mo

CONTRACT DATES: FY 1996: FY 1997: var FY 1998: Oct-97 FY 1999: Oct-98

DELIVERY DATES: FY 1996: FY 1997: var FY 1998: Feb-98 FY 1999: Feb-99

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT				4				4				6	
OUTPUT					4				4				6

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT			3				3				4				4		Cont.	28
OUTPUT				3				3				4				4	Cont.	28

P-1 SHOPPING LIST

ITEM NO.	PAGE NO.
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* Total quantity meets inventory objective. Program continues indefinitely.

UNCLASSIFIED
CLASSIFICATION

PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE: February 1998

APPROPRIATION/BUDGET ACTIVITY: OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE: BLI: 3368 NAVAL SHORE COMMUNICATIONS

SUBHEAD NO.: 52D6

COST CODE	ITEM/MANUFACTURER	FY	SERV	PROC QTY	ACCEP PRIOR TO 1-Oct	BAL DUE AS OF 1-Oct	FISCAL YEAR 96												FISCAL YEAR 97												FISCAL YEAR 98											
							PY 95			CALENDAR YEAR 96												CALENDAR YEAR 97												CALENDAR YEAR 98								
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
D6001	Tech Control Upgrade	96		4		4			A					4																												
		97		4		4															A					4																
		98		4		4																											A					4				
		99		4		4																																				
D6001	DMS	96		4		4	A					4																														
		97		4		4													A					4																		
		98		4		4																									A					4						
		99		4		4																																				
D6002	SRCS	96		4		4			A					4																												
		97		4		4															A					4																
		98		4		4																											A					4				
		99		4		4																																				
D6002	ADMS	96		4		4			A					4																												
		97		4		4															A					4																
		98		4		4																											A					4				
		99		4		4																																				
D6002	Terestrial Connectivity*	98		4		4																									A				4							
		99		4		4																																				
D6004	SLCS	96		4		4			A					4																												
		97		4		4															A					4																
		98		4		4																											A					4				
		99		4		4																																				
D6005	BLII*	98		4		4																									A				4							
		99		6		6																																				

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST

ITEM NO.	PAGE NO.
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*D6002 - In FY96 and FY97 field activities purchased Terestrial Connectivity Equipment using various existing contracts.

*D6005 - In FY97 field activities purchased BLII equipment using multiple existing contracts.

UNCLASSIFIED
CLASSIFICATION

UNCLASSIFIED

CLASSIFICATION

PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE: February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
BLI: 3368 NAVAL SHORE COMMUNICATIONS

SUBHEAD NO.
52D6

COST CODE	ITEM/MANUFACTURER/ PROCUREMENTY YEAR	FISCAL YEAR	CARRY OVER	FISCAL YEAR 99												FISCAL YEAR 00												FISCAL YEAR 01												LATER
				CY98			CALENDAR YEAR 99											CALENDAR YEAR 00												CALENDAR YEAR 01										
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
D6001	Tech Control Upgrade	96																																						
		97																																						
		98																																						
		99	4			A					4																													
D6001	DMS	96																																						
		97																																						
		98																																						
		99	4	A					4																															
D6002	SRCS	96																																						
		97																																						
		98																																						
		99	4			A					4																													
D6002	ADMS	96																																						
		97																																						
		98																																						
		99	4			A					4																													
D6002	Terestrial Connectivity*	98																																						
		99	4	A				4																																
D6004	SLCS	96																																						
		97																																						
		98																																						
		99	4			A					4																													
D6005	BLII*	98																																						
		99	6	A				6																																
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

NAVMAT FORM 7110/4 (REVISED 11/77)

*D6002 - In FY96 and FY97 field activities purchased Terestrial Connectivity Equipment using various existing contracts.

*D6005 - In FY97 field activities purchased BLII equipment using multiple existing contracts.

P-1 SHOPPING LIST

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UNCLASSIFIED

UNCLASSIFIED

CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
Secure Voice Systems 341000

SUBHEAD
52DP

	PY			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TO COMP	TOTAL
QUANTITY												
COST (in millions)	**$315.3**			**$13.5**								

Note: Secure Voice Systems Program transfers to the Information Systems Security Program (ISSP) NARM 33341500 in FY98. PY cost reflects historical data through FY90. Detail budget justification material for PY through FY97 is included in ISSP for budget comparability.

PROGRAM COVERAGE: The Secure Voice Systems Program provides Navy ships, shore sites, aircraft, and Marine Corps with secure voice communication capabilities. Secure Voice Systems consist of the following equipments:
o EDRZ Boards: The COMSEC boards used in SINCGARS.
o SINCGARS: SINCGARS COMSEC Devices will be procured in sets. A set consists of one KGV-10 and one EDRZ Board. A KGV-10 is a cryptographic component in a plug-in Electronic-Computer-Countermeasure Module (ECCM) in support of USMC SINCGARS.
o SACB: The STU-III/ANDVT Conference Bridge will facilitate the extension of STU-III secure voice, secure data, and secure fax traffic between select shore DCS users and fleet NTS communities.
o STU-III & Ancillaries: The STU-III is a secure telephone procured in compliance with SECDEF direction to secure all DoD telephones to protect classified and sensitive DoD information.
o STU-III/Cellular: The Stu-III CEL combines cellular mobile radio technology with advanced secure voice/data communications and is being procured for use by high level DoN staff.
o STE:
o INDICTOR: Embedded COMSEC Devices for MARCOR procurement of PRC-134, PSC-5, and PRC-117 radios.
o UPGRADE: The ANDVT Upgrade Program is a reconfiguration of previously fielded equipment with multiple voice encoding algorithms at increased selectable data rates.

JUSTIFICATION OF BUDGET YEAR REQUIREMENT: Navy procures this family of equipments in accordance with NSA direction and internally generated Navy implementation plans.

EXPLANATION OF PROGRAM CHANGE: N/A

INSTALLING AGENT: The STU-III/ANDVT Conference Bridge (SACB) will be installed by the In-Service Engineering Activity (ISEA).

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
Secure Data Systems 341200

SUBHEAD
52DQ

	PY			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TO COMP	TOTAL
QUANTITY												
COST (in millions)	**$179.3**			**$12.0**								

Note: Secure Data Systems Program transfers to the Information Systems Security Program (ISSP) NARM 33341500 in FY98. PY cost reflects historical data through FY90. Detail budget justification material for PY through FY97 is included in ISSP for budget comparability.

PROGRAM COVERAGE: The Secure Data Systems Program provides Navy ships, shore sites, aircraft, and Marine Corps with secure record and data communication capabilities. Secure Data System: consist of the following equipments:

o Modular Devices: Provide tactical high speed encryption of telemetry data on Navy and Air Force ranges; high speed encryption for missile telemetry; frequency hopping modules for tactical radio systems; and encryption for strategic communications receivers.

o COMSEC Equipment: Provides standard and special purpose cryptographic devices for high speed, strategic trunk Wide Area Network (WAN) interconnection encryption.

o Network Security Systems: Provide products to secure Navy information systems. Specific products include the Standard Mail Guard (SMG) which allows two way flow between SECRET high Local Area Networks (LANs) and UNCLASSIFIED LANs, the FORTEZZA/FORTEZZA+ card which provides writer to reader security for LANs, the Network Encryption System (NES) which provides in line encryption for classified data between Wide Area Networks (WANs), and Firewall components which provide protection for networks from unauthorized users.

(This program transfers to the Information Systems Security Program (ISSP), NARM 33341500, in FY98.)

JUSTIFICATION OF BUDGET YEAR REQUIREMENT: Navy procures this family of equipments in accordance with NSA direction, JCS mandated and Joint INFOSEC modernization requirements, and internally generated Navy implementation phasing plans.

EXPLANATION OF PROGRAM CHANGE: NA

INSTALLING AGENT: The Network Security System (NSS) equipments will be installed by the In-Service Engineering Activity (ISEA).

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1998

APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE		SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	Information Systems Security Program (ISSP)	341500	52DA

	PY			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TO COMP	TOTAL
QUANTITY												
COST (in millions)	* $549.7			* $37.3	$33.2	$46.0	$93.7	$88.4	$84.2	$69.3	CONT	CONT

PROGRAM COVERAGE: *This program consolidates OPN P-1 Line Items; Key Management Systems (NARM 33348600), Secure Voice Systems (NARM 33341000) and Secure Data Systems (NARM 33341200) beginning in FY98. PY through FY97 detail information is provided for budget comparability. The Information Systems Security Program (ISSP) provides funds for procurement of secure communications equipment for Navy ships, shore sites, aircraft, Marine Corps and U.S. Coast Guard to protect information systems from unauthorized access or modification of information, and against the denial of service to authorized users or provision of service to unauthorized users. The following specific efforts will be funded under this program:

Secure Voice : The Secure Voice Program procures equipments to secure voice communications. Equipments to be procured in this line in FY 98 and FY 99 include Secure Terminal Equipment (STE), Advanced Narrowband Digital Voice Terminal (ANDVT) upgrades, AIRTERM (KY-100), ancillary devices for these equipments and associated production support efforts. The STE is a ship, shore and desktop terminal for classified voice, data, facsimile, video and voice conferencing and will replace the existing STU III units via a phased approach, and replaces shipboard TA-970 (SA-2112). The ANDVT upgrades will provide multiple voice encoding algorithms at increased selectable data rates. The AIRTERM (KY-100) is a lightweight, low power, single channel half duplex narrowband/wideband terminal, providing secure voice/data communications. Procurement of ancillary devices will include cables, STE gateways and COMSEC custodian devices. In FY 98 SINCGARS COMSEC (RT-1523C) will be procured for the Marine Corps.

Secure Data: The Secure Data program procures equipment to secure record and data communications.. Equipments to be procured in this line in FY 98 and FY 99 include COMSEC equipment, Modular Devices, Network Security Systems, ancillary devices and associated production support efforts. The COMSEC equipment will procure standard and special purpose cryptographic devices for high speed, strategic trunk Wide Area Network (WAN) interconnection encryption. Modular Devices will procure hardware to provide tactical high speed encryption of telemetry data on Navy and Air Force ranges; high speed encryption for missile telemetry; frequency hopping modules for tactical radio systems; and encryption for strategic communications receivers. The Network Security Systems program procures equipment to secure Navy network information systems. Specific products include the Standard Mail Guard (SMG) which allows two way flow between SECRET high Local Area Networks (LANs) and Unclassified LANs, the FORTEZZA/FORTEZZA+ card which provides writer to reader security for LANs, the Network Encryption System (NES) which provides transmission encryption for packetized data among Wide Area Networks (WANs), and firewall components which provide protection for networks from unauthorized users. Various ancillary devices will also be procured in this line to integrate NSS equipment systems.

Key Management: The Key Management program is a COMSEC key distribution, and hardware management system consisting of interoperable Joint Service and civil agency key management systems. NSA established the Electronic Key Management program to meet multiple objectives, which include supplying electronic key in a secure and operationally responsive manner and providing COMSEC managers with an automated system capable of ordering, generation, distribution, storage, security, accounting, and access control. The FY98 and/or FY99 procurements include the Local Management Device (LMD)/Local COMSEC Management System (LCMS) upgrade, Benign Key, Single Point Key, associated ancillaries and production support. The LMD is a comercial off the shelf computer that runs Local COMSEC Management System (LCMS) software which controls the Key Processor (KP), and provides the COMSEC manager with improved security and enhanced management capabilities. The LCMS software upgrades ensure compatibility with revised NSA EKMS standards for interoperability with Tier 1 and the central facility. The Benign Key loads the cryptographic key into an end equipment in such a way that the unencrypted key is never available to personnel, eliminating the humint threat. The Key Processor equipment will perform cryptographic key management functions including encryption, decryption, public key encryption and cryptographic signature operations.

BUDGET ITEM JUSTIFICATION SHEET

DATE	February 1998

APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE		SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	Information Systems Security Program (ISSP)	341500	52DA

JUSTIFICATION OF BUDGET YEAR REQUIREMENTS: The procurement profile has been phased in accordance with internally generated Navy, Marine Corps, and Coast Guard implementation plans and availibility of NSA procured key management items.

INSTALLING AGENT: The ISSP equipment will be installed by the In-Service Engineering Activity (ISEA).

Note: This program represents a consolidation of Secure Voice Systems (341000), Secure Data Systems (341200) and Key Management Systems (348600) programs for FY98 and out.

COST ANALYSIS

DATE: Feb-98

B. APPROPRIATION/BUDGET ACTIVITY: OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

C. P-1 ITEM NOMENCLATURE: Information Systems Security Program (ISSP) 341500

SUBHEAD: 52DA

TOTAL COST IN THOUSANDS OF DOLLARS

COST CODE	ELEMENT OF COST	IDENT CODE	PY QTY	PY TOTAL COST	FY 1995 QTY	FY 1995 UNIT COST	FY 1995 TOTAL COST	FY 1996 QTY	FY 1996 UNIT COST	FY 1996 TOTAL COST	FY 1997 QTY	FY 1997 UNIT COST	FY 1997 TOTAL COST	FY 1998 QTY	FY 1998 UNIT COST	FY 1998 TOTAL COST	FY 1999 QTY	FY 1999 UNIT COST	FY 1999 TOTAL COST
	SECURE VOICE:																		
DA013	STE													903	4	3,200	2989	3	10,300
DP013	STE	A									4716	2	9,545						
DA040	INDICTOR	A												200	1	200			
DP040	INDICTOR	A									405	1	489						
DA041	ANDVT UPGRADE	A												303	7	2,121	627	5	3,200
DP041	ANDVT UPGRADE	A											763						
DA029	ANCILLARIES	A														2,549			1,500
DP029	ANCILLARIES	A																	
DP030	PRODUCTION SUPPORT	A											1,154						
DP011	STU-III & ANCILLARIES	A																	
DP001	EDRZ BOARDS	A																	
DP003	SINCGARS	A									1692	1	1,557						
DP010	SACB	A																	
DP012	STU-III/CELLULAR	A																	
DP776	NON-FMP INSTALL (SHORE)	NA																	
	PRIOR YEARS (FY90-FY94)																		
	SECURE DATA:																		
DA021	COMSEC EQUIPMENT	A												50	18	890	48	21	1,002
DQ021	COMSEC EQUIPMENT	A											415						
DA019	MODULAR DEVICES	A														400			1,733
DQ019	MODULAR DEVICES	A											1,480						
DA070	NSS	A														13,112			14,087
DQ070	NSS	A											5,528						
DA001	TEMPEST	A														400			400
DA050	COMSEC ANCILLARIES	A														500			1,000
DQ050	COMSEC ANCILLARIES	A											530						
DQ055	PRODUCTION SUPPORT	A											800						
DA002	NVACM															800			2,200
DQ061	KG-45 REPLACEMENT (KG-65)	A											120						
DQ666	TRAINING SUPPORT	NA																	
DQ776	INSTALLATIONS (Shore)	NA											3,060						
DQ777	INSTALLATIONS (Ship)	NA											110						
	PRIOR YEARS (FY90-FY94)																		
	KEY MANAGEMENT:																		
DA003	LMD REPLACEMENT'	A												200	10	2,000			
DA018	BENIGN KEY	A															181	7	1,200
1X018	BENIGN KEY	A									1125	7	7,555						
DA004	SINGLE POINT KEYING (SPK)	A												111	18	2,000	72	18	1,300
1X019	SINGLE POINT KEYING (SPK)	A											150						
DA016	ANCILLARIES	A														1,000			950
1X016	ANCILLARIES	A																	
1X015	PRODUCTION SUPPORT	A											1,715						
1X009	DTD RETROFIT KITS	A																	
1X013	KOK-22 (KPE)	A																	
1X666	TRAINING SUPPORT	NA											47						
1X776	INSTALLATION (Shore)	NA											618						
1X777	INSTALLATION (Ship)	NA											1,658						
	PRIOR YEARS (FY90-FY94)																		
DA030	PRODUCTION SUPPORT	NA														1,527			1,900
DA666	TRAINING SUPPORT	NA														90			90
DA776	INSTALLATION (Shore)	NA														2,390			4,955
DA777	INSTALLATION (Ship)	NA																	173
	TOTAL PROGRAM												**37,294**			**33,179**			**45,990**

WEAPON SYSTEM PROCUREMENT HISTORY AND PLANNING

A. DATE February 1998

B. APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

C. P-1 ITEM NOMENCLATURE
Information Systems Security Program (ISSP) 341500

SUBHEAD 52DA

COST CODE	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
	SECURE VOICE:											
DP013	STE	97	Lockheed Martin, Camden, NJ	IDIQ	DIRNSA		Jun-97	Jun-98	4,716	2,251	YES	NA
DA013	STE	98	UNKNOWN	IDIQ	DIRNSA		Feb-98	Feb-99	903	3,544	YES	NA
DA013	STE	99	UNKNOWN	IDIQ	DIRNSA		Mar-99	Mar-00	2989	3,445	YES	NA
DP040	INDICTOR	97	Northrop/Grumman	IDIQ	DIRNSA		Mar-97	Jan-98	405	1,207	YES	NA
DA040	INDICTOR	98	UNKNOWN	IDIQ	DIRNSA		Mar-98	Mar-99	200	1,000	YES	NA
DA041	ANDVT UPGRADE	98	UNKNOWN	FFP	DIRNSA		Mar-98	Mar-99	303	7,000	YES	NA
DA041	ANDVT UPGRADE	99	UNKNOWN	FFP	DIRNSA		Mar-99	Mar-00	627	5,104	YES	NA
DP003	SINCGARS	97	ITT, Ft. Wayne, IN	FFP	US ARMY		Aug-97	Sep-99	1,692	920	YES	NA
	SECURE DATA:											
DA021	COMSEC EQPT	98	UNKNOWN	UNKNOWN	DIRNSA		Mar-98	Mar-99	50	17,800	YES	NA
DA021	COMSEC EQPT	99	UNKNOWN	UNKNOWN	DIRNSA		Mar-99	Mar-00	48	20,875	YES	NA
	KEY MANAGEMENT:											
DA003	LMD	98	UNKNOWN	UNKNOWN	NISE-EAST		May-98	May-99	200	10,000	YES	NA
1X018	BENIGN KEY	97	Lockheed Martin, Camden NJ	ID/IQ	NISE-EAST		Jul-97	Oct-97	1,125	6,812	YES	NA
DA018	BENIGN KEY	99	UNKNOWN	FFP	DIRNSA		Mar-99	Jun-99	181	6,630	YES	NA
DA004	SINGLE POINT KEYING (SPK)	98	UNKNOWN	UNKNOWN	NISE-EAST		Mar-98	Mar-99	111	18,018	YES	NA
DA004	SINGLE POINT KEYING (SPK)	99	UNKNOWN	UNKNOWN	NISE-EAST		Dec-98	Aug-01	72	18,056	YES	NA

D. REMARKS

MODIFICATION TITLE: KPE (SHORE)
MODELS OF SYSTEMS AFFECTED: NONE
DESCRIPTION/JUSTIFICATION: Key Processor Equipment (KPE) (KOK-22) generates electronic cryptographic variables
1X013

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:	0	0.0	640	12.0	621	6.2																	1261	18.2
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment	0	0.0	640	12.0	621	6.2																	1261	18.2
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	371	0.3	633	0.3	257	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1261	0.8
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP							371	0.3	269	0.1													640	0.4
FY 96 EQUIP									364	0.2	257	0.2											621	0.4
FY 97 EQUIP																							0	0.0
FY 98 EQUIP																							0	0.0
FY 99 EQUIP																							0	0.0
FY 00 EQUIP																							0	0.0
FY 01 EQUIP																							0	0.0
FY 02 EQUIP																							0	0.0
FY 03 EQUIP																							0	0.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.3		0.3		0.2		0.0		0.0		0.0		0.0		0.0		0.8
TOTAL PROCUREMENT COST		0.0		12.0		6.2		0.3		0.3		0.2		0.0		0.0		0.0		0.0		0.0		19.0

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 6 MOS PROCUREMENT LEADTIME: 23 MOS

CONTRACT DATES: FY 1996: Apr-96 FY 1997: NA FY 1998: NA FY 1999: NA FY 2000: NA FY 2001: NA

DELIVERY DATES: FY 1996: Mar-98 FY 1997: NA FY 1998: NA FY 1999: NA FY 2000: NA FY 2001: NA

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT		0	53	159	159	161	160	156	156	155	102		
OUTPUT		0	53	159	159	161	160	156	156	155	102		

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT																		1261
OUTPUT																		1261

Feb-98

MODIFICATION TITLE: Network Security Systems (NSS) (SHORE)

MODELS OF SYSTEMS AFFECTED: NONE

DESCRIPTION/JUSTIFICATION: Provides products to secure Navy Information Systems:Standard Mail Guard (SMGs),FORTEZZA/FORTEZZA+Cards,Network Encryption System(NES),High Assurance Guards (HAGs), In-Line Encryptors (INE's), Certificate Authority Workstation (CAW's), and Firewall Systems.
DA070/DQ070

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:	VAR	2.0	VAR	2.4	VAR	1.7	VAR	5.5	VAR	13.1	VAR	13.4	VAR	35.8	VAR	35.4	VAR	30.1	VAR	16.0			VAR	155.4
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment	VAR	2.0	VAR	2.4	VAR	1.7	VAR	5.5	VAR	13.1	VAR	13.4	VAR	35.8	VAR	35.4	VAR	30.1	VAR	16.0	Cont	0.0	VAR	155.4
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	0	0.0	VAR	0.3	VAR	2.7	VAR	3.2	VAR	1.2	VAR	4.4	VAR	5.1	VAR	4.8	VAR	5.9	VAR	6.0	Cont	0.0	VAR	33.6
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP			VAR	0.3																			VAR	0.3
FY 96 EQUIP					VAR	2.7																	VAR	2.7
FY 97 EQUIP							VAR	3.2															VAR	3.2
FY 98 EQUIP									VAR	1.2													VAR	1.2
FY 99 EQUIP											VAR	4.4											VAR	4.4
FY 00 EQUIP													VAR	5.1									VAR	5.1
FY 01 EQUIP															VAR	4.8							VAR	4.8
FY 02 EQUIP																	VAR	5.9					VAR	5.9
FY 03 EQUIP																			VAR	6.0			0	6.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		0.3		2.7		3.2		1.2		4.4		5.1		4.8		5.9		6.0		0.0		33.6
TOTAL PROCUREMENT COST		2.0		2.7		4.4		8.7		14.3		17.8		40.9		40.2		36.0		22.0		0.0		189.0

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 MOS. PROCUREMENT LEADTIME: 3 MOS.

CONTRACT DATES: FY 1996: NA FY 1997: NA FY 1998: NA FY 1999: NA FY 2000: NA FY 2001: NA

DELIVERY DATES: FY 1996: NA FY 1997: NA FY 1998: NA FY 1999: NA FY 2000: NA FY 2001: NA

INSTALLATION SCHEDULE:	PY	FY 97				FY 98				FY 99			
		1	2	3	4	1	2	3	4	1	2	3	4
INPUT													
OUTPUT													

INSTALLATION SCHEDULE:	FY 00				FY 01				FY 02				FY 03				TC	TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
INPUT																		0
OUTPUT																		0

Feb-98

MODIFICATION TITLE: Network Security Systems (NSS) (SHIP)

MODELS OF SYSTEMS AFFECTED: NONE

DESCRIPTION/JUSTIFICATION: Provides products to secure Navy Information Systems:Standard Mail Guard (SMGs),FORTEZZA/FORTEZZA+Cards,Network Encryption System(NES),High Assurance Guards (HAGs), In-Line Encryptors (INE's), Certificate Authority Workstation (CAW's), and Firewall Systems.
DA070/DQ070

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:	VAR	0.0	VAR	0.0	VAR	0.0	VAR	0.0	VAR	0.0	VAR	0.7	VAR	3.3	VAR	3.5	VAR	3.0	VAR	0.0			VAR	10.5
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment	VAR	0.0	VAR	0.0	VAR	0.0	VAR	0.0	VAR	0.0	VAR	0.7	VAR	3.3	VAR	3.5	VAR	3.0	VAR	0.0	Cont	0.0	VAR	10.5
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	0	0.0	VAR	0.0	VAR	0.0	VAR	0.1	VAR	0.0	VAR	0.2	VAR	1.2	VAR	1.3	VAR	0.9	VAR	0.0	Cont	0.0	VAR	3.7
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP			VAR	0.0																			VAR	0.0
FY 96 EQUIP					VAR	0.0																	VAR	0.0
FY 97 EQUIP							VAR	0.1															VAR	0.1
FY 98 EQUIP									VAR	0.0													VAR	0.0
FY 99 EQUIP											VAR	0.2											VAR	0.2
FY 00 EQUIP													VAR	1.2									VAR	1.2
FY 01 EQUIP															VAR	1.3							VAR	1.3
FY 02 EQUIP																	VAR	0.9					VAR	0.9
FY 03 EQUIP																			VAR	0.0			VAR	0.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.1		0.0		0.2		1.2		1.3		0.9		0.0		0.0		3.7
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.0		0.0		0.9		4.5		4.8		3.9		0.0		0.0		14.2

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 MOS. PROCUREMENT LEADTIME: 3 MOS.

CONTRACT DATES: FY 1996: NA FY 1997: NA FY 1998: NA FY 1999: NA FY 2000: NA FY 2001: NA

DELIVERY DATES: FY 1996: NA FY 1997: NA FY 1998: NA FY 1999: NA FY 2000: NA FY 2001: NA

INSTALLATION SCHEDULE:	PY	FY 97				FY 98				FY 99			
		1	2	3	4	1	2	3	4	1	2	3	4
INPUT													
OUTPUT													

INSTALLATION SCHEDULE:	FY 00				FY 01				FY 02				FY 03				TC	TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
INPUT																		0
OUTPUT																		0

Feb-98

MODIFICATION TITLE: BENIGN KEY (SHORE)
MODELS OF SYSTEMS AFFECTED: NONE
DESCRIPTION/JUSTIFICATION: The Benign Key loads cryptographic key into an end equipment in such a way that the unencrypted key is never available to personnel.
DA018/1X018

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity					200	0.8	1125	7.6	0	0.0	181	1.2	0	0.0									181	9.6
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment					200	0.8	1125	7.6	0	0.0	181	1.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	181	9.6
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	0	0.0	200	0.3	1125	0.8	60	0.3	121	0.4	0	0.0	0	0.0	0	0.0	0	0.0	1506	1.8
PRIOR YR EQUIP																							0	0.0
FY 95 EQUIP																							0	0.0
FY 96 EQUIP							200	0.3															200	0.3
FY 97 EQUIP									1125	0.8													0	0.0
FY 98 EQUIP																							1125	0.8
FY 99 EQUIP											60	0.3	121	0.4									181	0.7
FY 00 EQUIP																							0	0.0
FY 01 EQUIP																							0	0.0
FY 02 EQUIP																							0	0.0
FY 03 EQUIP																							0	0.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.3		0.8		0.3		0.4		0.0		0.0		0.0		0.0		1.8
TOTAL PROCUREMENT COST		0.0		0.0		0.8		7.9		0.8		1.5		0.4		0.0		0.0		0.0		0.0		11.4

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 5 MOS PROCUREMENT LEADTIME: 3 MOS.

CONTRACT DATES: FY 1996: Oct-96 FY 1997: Jul-97 FY 1998: NA FY 1999: Mar-99 FY 2000: FY 2001: NA

DELIVERY DATES: FY 1996: Jan-97 FY 1997: Oct-97 FY 1998: NA FY 1999: Jun-99 FY 2000: FY 2001: NA

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT		0	200	0	0	279	282	282	282			15	45
OUTPUT		0	200	0	0	279	282	282	282			15	45

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT	45	45	31															1506
OUTPUT	45	45	31															1506

Feb-98

MODIFICATION TITLE: BENIGN KEY (SHIP)
MODELS OF SYSTEMS AFFECTED: NONE
DESCRIPTION/JUSTIFICATION: The Benign Key loads cryptographic key into an end equipment in such a way that the unencrypted key is never available to personnel.
DA018/1X018

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity	0	0.0	0	0.0	80	0.3		0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.3
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment																							0	0.3
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*	0	0.0	0	0.0	10	0.4	80	1.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	90	2.0
PRIOR YR EQUIP					10	0.4																	10	0.4
FY 95 EQUIP					0	0.0																	0	0.0
FY 96 EQUIP					0	0.0	80	1.6	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0	80	1.6
FY 97 EQUIP																							0	0.0
FY 98 EQUIP																							0	0.0
FY 99 EQUIP																							0	0.0
FY 00 EQUIP																							0	0.0
FY 01 EQUIP																							0	0.0
FY 02 EQUIP																							0	0.0
FY 03 EQUIP																							0	0.0
FY TC EQUIP																							0	0.0
TOTAL INSTALLATION COST		0.0		0.0		0.4		1.6		0.0		0.0		0.0		0.0		0.0		0.0		0.0		2.0
TOTAL PROCUREMENT COST		0.0		0.0		0.7		1.6		0.0		0.0		0.0		0.0		0.0		0.0		0.0		2.3

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 MOS. PROCUREMENT LEADTIME: 3 MOS.

CONTRACT DATES: FY 1996: Oct-96 FY 1997: FY 1998: FY 1999: FY 2000: FY 2001:

DELIVERY DATES: FY 1996: Jan-97 FY 1997: FY 1998: FY 1999: FY 2000: FY 2001:

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT	10		80										
OUTPUT	10		80										

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT																		90
OUTPUT																		90

UNCLASSIFIED

CLASSIFICATION

PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
Information Systems Security Program (ISSP) 341500

SUBHEAD NO. 52DA

COST CODE	ITEM/MANUFACTURER	FY	SERV	PROC QTY	ACCEP PRIOR TO 1-Oct	BAL DUE AS OF 1-Oct	PY OCT	PY NOV	PY DEC	96 JAN	96 FEB	96 MAR	96 APR	96 MAY	96 JUN	96 JUL	96 AUG	96 SEP	96 OCT	96 NOV	96 DEC	97 JAN	97 FEB	97 MAR	97 APR	97 MAY	97 JUN	97 JUL	97 AUG	97 SEP	97 OCT	97 NOV	97 DEC	98 JAN	98 FEB	98 MAR	98 APR	98 MAY	98 JUN	98 JUL	98 AUG	98 SEP
DP013	STE	97		4716		4716																					A												393	393	393	393
DA013	STE	98		903		903																													A							
DP040	INDICTOR	97		405		405																		A										33	33	33	34	34	34	34	34	34
DA040	INDICTOR	98		200		200																														A						
DA041	ANDVT UPGRADE	98		303		303																														A						
DP001	EDRZ BOARDS	96		997		997																		A																		
DP003	SINCGARS	96		5,673		5,673							A																								472	472	472	473	473	473
DP003	SINCGARS	97		1,692		1,692																							A													
DQ061	KG-45 REPLACE (KG-65)	95		150		150																								12	12	12	12	12	12	12	12	12	14	14	14	
DA021	COMSEC EQPT	98		50		50																														A						
DA003	LMD	98		200		200																																A				
1X018	BENIGN KEY	96		280		280													A			93	93	94																		
1X018	BENIGN KEY	97		1,125		1,125																						A			93	93	93	94	94	94	94	94	94	94	94	94
DA004	SINGLE POINT KEY(SPK)	98		111		111																														A						
1X013	KPE (KOK-22)	96		621		621							A																							52	52	52	52	52	52	52
1X013	KPE (KOK-22)	95		640		640																		53	53	53	53	53	53	53	53	54	54	54	54							
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST
ITEM NO. 116 PAGE NO. 10

UNCLASSIFIED

CLASSIFICATION

UNCLASSIFIED

CLASSIFICATION

PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
Information Systems Security Program (ISSP) 341500

SUBHEAD NO.
52DA

COST CODE	ITEM/MANUFACTURER/ PROCUREMENTY YEAR	FISCAL YEAR	CARRY OVER	FISCAL YEAR 99												FISCAL YEAR 00												FISCAL YEAR 01												LATER
				CY98			CALENDAR YEAR 99												CALENDAR YEAR 0										CALENDAR YEAR 1										
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
DP013	STE	97	3,144	393	393	393	393	393	393	393	393																													
DA013	STE	98	903					75	75	75	75	75	75	75	75	75	76	76	76																					
DA013	STE	99	2,989						A												249	249	249	249	249	249	249	249	249	249	249	250								
DP040	INDICTOR	97	102	34	34	34																																		
DA040	INDICTOR	98	200						16	16	16	16	17	17	17	17	17	17	17	17																				
DA041	ANDVT UPGRADE	98	303						25	25	25	25	25	25	25	25	25	26	26	26																				
DP041	ANDVT UPGRADE	99	627						A												52	52	52	52	52	52	52	52	52	53	53	53								
DP001	EDRZ BOARDS	96	997							83	83	83	83	83	83	83	83	83	83	83	84																			
DP003	SINCGARS	96	2,838	473	473	473	473	473	473																															
DP003	SINCGARS	97	1,692												141	141	141	141	141	141	141	141	141	141	141	141														
DA021	COMSEC EQPT	98	50						4	4	4	4	4	4	4	4	4	4	5	5																				
DA021	COMSEC EQPT	99	48						A												4	4	4	4	4	4	4	4	4	4	4	4								
DA003	LMD	98	200								16	16	16	16	17	17	17	17	17	17	17	17																		
DA018	BENIGN KEY	99	181						A			15	15	15	15	15	15	15	15	15	15	15	16																	
DA004	SINGLE POINT KEY (SPK)	98	111						9	9	9	9	9	9	9	9	9	10	10	10																				
DA004	SINGLE POINT KEY (SPK)	99	72						A																													6	6	60
1X013	KPE (KOK--22)	96	257	52	52	51	51	51																																
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST
ITEM NO. 116 PAGE NO. 11

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
Key Management Systems 348600

SUBHEAD
521X

	PY			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TO COMP	TOTAL
QUANTITY												
COST (in millions)	**$55.4**			**$11.7**								

Note: Key Management Systems Program transfers to the Information Systems Security Program (ISSP) NARM 33341500 in FY98. PYcost reflects historical data through FY90. Detail budget justification material for PY through FY97 is included in ISSP for budget comparability.

NARRATIVE DESCRIPTION/JUSTIFICATION:
The term "Key Management" describes a family of equipments which are designed to replace the current system of physically distributing hard copy (paper) COMSEC keying material. The current system is manpower intensive,
slow, and provides only limited protection against theft or compromise. The Key Management Program will provide an automated computer system that will generate, manage, protect, and electronically distribute COMSEC
keying material of all classifications. Equipments identified for procurement in this program are:
o The DATA TRANSFER DEVICE (DTD) retrofit kits provide software download capability and memory enhancements to DTDs.
o The KEY PROCESSOR EQUIPMENT(KPE) (KOK-22) will perform cryptographic key management functions including encryption, decryption, public key encryption and cryptographic signature operations.
o The BENIGN KEY loads cryptographic key into an end equipment in such a way that the unencrypted key is never available to personnel.
o SINGLE POINT KEY (SPK) permits remote keying of fixed plant crypto from a PC. Eliminates manual (hand) fill by operator.

JUSTIFICATION OF BUDGET YEAR REQUIREMENT: The procurement profile has been phased in accordance with internally generated Navy Marine Corps, and Coast Guard implementation plans and availability of NSA procured key management items.

EXPLANATION OF PROGRAM CHANGE: N/A

INSTALLING AGENT: The Key Processor Equipment (KPE) will be installed by the In-Service Engineering Activity (ISEA). Funding is required to perform installations in advance of equipment delivery. This is a common practice
for systems/equipment when attempting to meet a planned fleet wire cutover date. The installation of all mounts, wiring, racks, patch panels and IntermediateDistribution Frames (IDFs) can be performed in advance so that the
site is ready for System Operation Verification Testing (SOVT) and cutover in a very short timeframe to shorten downtime at the site during transition from old to new equipments. This procedure was used in the KW-46/KG-84
and ANDVT system cutovers. It is accepted fleet-wide by users as the only way to perform cutovers without taking down the communication path.

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
CRYPTOLOGIC EQUIPMENT 3501

SUBHEAD
521V

	PY			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TO COMP	TOTAL
QUANTITY												
COST (in millions)	**$23.9**			**$1.0**	**$6.9**	**$21.2**	**$21.0**	**$19.0**	**$22.0**	**$22.9**	**CONT.**	**CONT.**

NARRATIVE DESCRIPTION JUSTIFICATION: This line supports the Cryptologic Carry-On Program (CCOP), the Cryptologic Training Equipment Program, the Training Technology Program, and the Signal Analysis Laboratory Program.

CRYPTOLOGIC CARRY-ON EQUIPMENT: This program procures state-of-the-art, Commercial Off-The-Shelf (COTS) signal acquisition equipment (hardware and software) in response to the Fleet Commander's In Chief (CINC) requirements for a quick-reaction surface, subsurface and airborne cryptologic carry-on capability. Due to a continually changing threat environment, requirements are dynamic and equipment procured varies by quantity and type. Hardware procurement includes: receivers, recorders, Transportable-Radio Direction Finding (T-RDF) systems, tactical computers and related peripherals, antennas, Electronic-Warfare Support Measures (ESM) systems, and advanced signal and search equipment including spectrum analyzers, VXI chassis/cards and associated portable Special Intelligence communications equipment. Ancillary equipment such as special maintenance tools and installation gear is also procured. CCOP equipment is installed either in AN/SSQ-99 vans for deployment or augments cryptologic capabilities on ships with permanent facilities. The temporary installation of equipment is done by Fleet Electronic Support (FES) personnel. FY 95 and FY 96 funds procured the upgrade of AN/SSQ-80A(V) systems to Advanced Cryptologic Carry-On Exploitation System (ACCES) with VXI-based Digital Signal Processing (DSP) capability, and negotiated a competitive contract for a T-RDF capabillity. FY 97 - FY 03 funds continue to procure ACCES core architecture system upgrades (24 Fleet CINC's surface, subsurface and airborne deployable upgrade systems; 11 shore-based training system upgrades for Cryptologic Shore Support Activities (CSSAs) and Cryptologic Readiness Groups (CRGs) worldwide) and provide available and affordable additional functionality to the Fleet CINC's. FY97 - FY 03 funds will also procure T-RDF systems with associated antennas and pregroom installations (pregroom installations are required on 13 CG-47, 6 LPD and 21 DDG-51 class ships in order to utilize the T-RDF systems as carry-on hardware during critical missions). A total of 12 T-RDF systems with 26 associated mast antennas, 36 deck antenna arrays and 40 pregroom installations will be procured.

CRYPTOLOGIC TRAINING EQUIPMENT: This program provides Technical Training Laboratories and Computer Based Classroom Training systems interconnected by a system of Local Area Networks (LAN) and procures other Technical Training Equipment (TTE) (e.g. maintenance diagnostic equipment, analytic workstations, network file servers, signal analyzers, etc). This hardware is provided to the Naval Technical Training Center in Pensacola, FL, and its detachments as well as NAVSECGRU Field Activities worldwide to support both core cryptologic skills training and systems familiarization training. FY98-03 funds will continue to modernize the NTTC Cryptologic Training Department infrastructure, CT "A" School laboratories, classrooms and courseware equipment with state-of-the-art multimedia CBT hardware capable of supporting both national and Navy unique Cryptologic training worldwide.

TRAINING TECHNOLOGY PROGRAM (TMP): This program supports the Reinvestment Strategy For Cryptologic And Intelligence Training (RSCIT). This program improves the effectiveness and efficiency of cryptologic and general intelligence training at NAVTECHTRACEN (NTTC) Corry Station, Fleet Intelligence Training Center Pacific (FITCPAC) San Diego and Navy Marine Corps Intelligence Training Center (NMITC) Dam Neck. With investment in technology-enhanced training systems and methods, courseware will be produced and exported to fleet users through the purchase of state-of-the-art interactive multimedia courseware production suites, predeployment suites, and the use of advanced modeling and simulation techniques. Distribution via the Automated Electronic Classroom, and mobile training teams will necessitate infrastructure improvements at the schoolhouses. Program funding in FY 98 - FY 99 will initiate the procurement of equipment composed of Commercial Off The Shelf (COTS) hardware with particulars determined, initially by training plans and training equipment plans, that validate nearterm training requirements and recommend the equipment/system configuration.

BUDGET ITEM JUSTIFICATION SHEET

DATE	February 1998

APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	CRYPTOLOGIC EQUIPMENT 3501	521V

NARRATIVE DESCRIPTION JUSTIFICATION: (continued)

SIGNALS ANALYSIS LABORATORY: This program directly supports tactical commanders with tailored and responsive feedback from theater Information Warfare (IW) exploitation operations. Navy Signals Analysis Laboratories (SALs) are forward based signals analysis and processing centers for complex communications and electronic emissions. SALs require advanced signals processing equipment to keep pace with information technology and continually changing target sets. Funds are required to procure signals analysis equipment to perform shore-based IW exploitation of data resulting from mobile collection missions, and to deploy advanced signal analysis systems afloat to aid near real-time exploitation efforts. The Reconnaisance Intercept Processor Signal Analysis Workstation (RIPSAW), a high powered workstation combined with a digitizer and a multitude of digital signal analysis software packages, is the heart of the SAL effort. RIPSAW workstations will provide theater focal points for analysis and exploitation of specialized emissions. New recorders and advanced digitzers are needed to effectively analyze and exploit modern emitters (signals utilizing increasingly wide bandwidths). Using GOTS/COTS technology to adapt to the ever-changing global signals environment, SALs also augment organic mobile IW exploitation capabilities with sophisticated carry-on exploitation and analysis equipment. The acquisition of this equipment will allow Theater Commanders to use the information derived from the exploitation of these emitters in near real-time. This capacity will ensure the warfighter has the tools requir to meet the challenges of emergent information technology trends. FY 99 funding will be used for the purchase of components to upgrade six existing RIPSAW II analysis workstations: one located at each of the four SALs (NAVSECGRUACTs at Yokosuka, JA, Rota, SP, Whidley Island, WA and NIWA, Suitland, MD); one deployable system and one Configuration Control Model (CCM) located at NISE East, Charleston, SC.

INSTALLATION NON FMP: Installation of Cryptologic Training Equipment is done by SPAWARSYSCOM Engineering Field Activities or by system integration contractors. Installation of SAL cryptologic equipment will be performed by Naval Command, Control and Ocean Surveillance Center (NCCOSC) In-Service Engineering, East Coast Division (NISE East) or by system integration contractors on behalf of NISE East. Installation of ACCES Training systems and upgrades is done by NISE East Charleston, SC, the SPAWARSYSCOM Field Activity responsible for the Cryptologic Carry-On Program (CCOP).

INSTALLATION FMP: Installation of Transportable-Radio Direction Finding (T-RDF) pregrooms are done by SPAWARSYSCOM Engineering Field Activities or by system integration contractors. Fleet Electronic Support Personnel install the T-RDF systems.

COST ANALYSIS

DATE: February 1998

B. APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

C. P-1 ITEM NOMENCLATURE
CRYPTOLOGIC EQUIPMENT 3501

SUBHEAD
521V

COST CODE	ELEMENT OF COST	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS																
			PY		FY 1995			FY 1996			FY 1997			FY 1998			FY 1999		
			QTY	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1V005	PRODUCTION SUPPORT	A											311			874			903
1V039	CRYPTOLOGIC CARRY-ON EQUIPMENT	A									VAR		496						
1V040	CRYPTOLOGIC TRAINING EQUIPMENT	A									1	56	56	1	499	499	5	820	4,099
1V041	TMP EQUIPMENT	A												15	151	2,261	13	200	2,597
1V042	SIGNALS ANALYSIS LAB	A															10	69	690
1V043	T-RDF EQUIPMENT	A												2	435	870	3	424	1,272
1V044	T-RDF ANTENNAS	A												4	67	266	11	71	784
1V045	ACCES SYSTEMS	A												12	129	1,546	17	569	9,670
1V776	INSTALLATION NON-FMP	A											19			276			526
1V777	INSTALLATION FMP	A											100			346			675
	INSTALL															326			655
	DSA															20			20
	TOTAL PROGRAM												**982**			**6,938**			**21,216**

WEAPON SYSTEM PROCUREMENT HISTORY AND PLANNING

A. DATE February 1998

B. APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

C. P-1 ITEM NOMENCLATURE CRYPTOLOGIC EQUIPMENT 3501

SUBHEAD 521V

COST CODE	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
1V040	CTE	97	DEC, MD	BOA	OSP	Dec-96	Jan 97	Mar 97	1	56	YES	N/A
1V040	CTE	98	DEC, MD	BOA	OSP	Aug-97	Feb 98	Apr 98	1	499	YES	N/A
1V040	CTE	99	DEC, MD	BOA	OSP	Aug-98	Oct 98	Dec 98	5	820	YES	N/A
1V041	TMP EQUIPMENT	98	DEC, MD	BOA	OSP	Aug-97	Mar 98	May 98	15	151	YES	N/A
1V041	TMP EQUIPMENT	99	DEC, MD	BOA	OSP	Aug-98	Oct 98	Dec 98	13	200	YES	N/A
1V042	SAL	99	VARIOUS	CPFF	NISE EAST	N/A	Dec 98	May 99	10	69	YES	N/A
1V043	T-RDF EQUIPMENT	98	SWRI, TX	OPT	OSP	N/A	Jan 98	Jun 98	2	435	YES	N/A
1V043	T-RDF EQUIPMENT	99	SWRI, TX	OPT	OSP	N/A	Jan 99	Jun 99	3	424	YES	N/A
1V044	T-RDF ANTENNAS	98	SWRI, TX	OPT	OSP	N/A	Jan 98	Jun 98	4	67	YES	N/A
1V044	T-RDF ANTENNAS	99	SWRI, TX	OPT	OSP	N/A	Jan 99	Jun 99	11	71	YES	N/A
1V045	ACCES SYSTEMS *	98	VAR	VAR	NISE EAST	N/A	Nov 97	Mar 98	12	129	YES	N/A
1V045	ACCES SYSTEMS *	99	VAR	VAR	NISE EAST	N/A	Nov 98	Mar 99	17	569	YES	N/A

D. REMARKS

CTE and TMP quantities reflect the number of classrooms and labs that require hardware updates. Mix of hardware to be procured for each classroom and lab varies.

* Various commercial off-the-shelf (COTS) procurements.

Feb-98

MODIFICATION TITLE: T-RDF Equipment (521V) (1V043/1V777) - Ship
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: This program provides Transportable-Radio Direction Finding (T-RDF) Systems to Fleet Electronic Support (FES) Activities worldwide for temporary installation and use with the Advanced Cryptologic Carry-on Exploitation System (ACCES).

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

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment					2***	1.5			2	0.9	3	1.3	2	0.9	1	0.5	1	0.5	1	0.5			12 *	6.1
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*					1	0.1	1	0.1	3	0.3	6	0.7	8	0.9	8	0.9	8	0.9	5	0.6			40 **	4.5
PRIOR YR EQUIP																								
FY 95 EQUIP																								
FY 96 EQUIP					1	0.1																	1	0.1
FY 97 EQUIP							1	0.1															1	0.1
FY 98 EQUIP									3	0.3													3	0.3
FY 99 EQUIP											6	0.7											6	0.7
FY 00 EQUIP													8	0.9									8	0.9
FY 01 EQUIP															8	0.9							8	0.9
FY 02 EQUIP																	8	0.9					8	0.9
FY 03 EQUIP																			5	0.6			5	0.6
FY TC EQUIP																								
TOTAL INSTALLATION COST*						0.1		0.1		0.3		0.7		0.9		0.9		0.9		0.6				4.5
TOTAL PROCUREMENT COST						1.6		0.1		1.2		2.0		1.8		1.4		1.4		1.1				10.6

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 2 MONTHS PROCUREMENT LEADTIME: 3 MONTHS

CONTRACT DATES: FY 1996: FY 1997: FY 1998: Jan 98 FY 1999: Jan 99

DELIVERY DATES: FY 1996: FY 1997: FY 1998: Jun 98 FY 1999: Jun 99

INSTALLATION SCHEDULE:	PY	FY 97				FY 98				FY 99			
		1	2	3	4	1	2	3	4	1	2	3	4
INPUT	1				1		1	1	1	2	2	2	
OUTPUT	1				1		1	1	1	2	2	2	

INSTALLATION SCHEDULE:	FY 00				FY 01				FY 02				FY 03				TC	TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
INPUT	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	0		40
OUTPUT	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	0		40

*Inventory objective is 12 systems with antennas. Systems and antennas are carry-on hardware (not permanently installed).
**Reflects pregrooms. Pregroom installations are required in order to utilize the T-RDF systems as carry-on hardware during critical missions. T-RDF System antennas are also carry-on items.
*** Procured against Cost Code 1V039.

Feb-98

MODIFICATION TITLE: ACCES Systems (521V) (1V045/1V776) - Shore

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: This program upgrades ACCES training systems installed at Cryptologic shore Support Activities (CSSAs) and Cryptologic Readiness Groups (CRGs) worldwide. These upgrades provide ACCES with improved hardware/software capabilities/functionalities for operator/maintenance training of Direct Support (DIRSUP) personnel who temporarily deploy aboard surface, subsurface and airborne platforms in support of Fleet CINC's cryptologic mission requirements.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment											3	1.7	1	1.0	4	3.9	3	3.0			CONT.		CONT.	
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware											3	0.1	1	0.03	4	0.1	3	0.1			CONT.		CONT.	
PRIOR YR EQUIP																								
FY 95 EQUIP																								
FY 96 EQUIP																								
FY 97 EQUIP																								
FY 98 EQUIP																								
FY 99 EQUIP											3	0.1											3	0.1
FY 00 EQUIP													1	0.03									1	0.03
FY 01 EQUIP															4	0.1							4	0.1
FY 02 EQUIP																	3	0.1					3	0.1
FY 03 EQUIP																								
FY TC EQUIP																					CONT.		CONT.	
TOTAL INSTALLATION COST												0.1		0.03		0.1		0.1		0.0	CONT.		CONT.	
TOTAL PROCUREMENT COST												1.8		1.03		4.0		3.1		0.0	CONT.		CONT.	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 2 MONTHS PROCUREMENT LEADTIME: 3 MONTHS

CONTRACT DATES: FY 1996: FY 1997: FY 1998: Nov 97 FY 1999: Nov 98

DELIVERY DATES: FY 1996: FY 1997: FY 1998: Mar 98 FY 1999: Mar 99

INSTALLATION SCHEDULE:	PY	FY 97 1	2	3	4	FY 98 1	2	3	4	FY 99 1	2	3	4
INPUT											1	2	
OUTPUT											1	2	

INSTALLATION SCHEDULE:	FY 00 1	2	3	4	FY 01 1	2	3	4	FY 02 1	2	3	4	FY 03 1	2	3	4	TC	TOTAL
INPUT		1				2	2			2	1						CONT	CONT
OUTPUT		1				2	2			2	1						CONT	CONT

ACCES ship systems are carry-on. Shore systems are permanently installed.

MODIFICATION TITLE: Cryptologic Training Equipment (521V) (1V040/1V776) - Shore

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: This program provides Computer Based Training (CBT) systems and other technical equipment (TTE) (e.g. maintenance diagnostic equipment, analytic workstations, network file servers, signal analyzers) at Naval Technical Training Center in Pensacola, FL, its detachments as well as NAVSECGRU Cryptologic Readiness Groups worldwide.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment			8	1.6	14	2.3	1	0.1	1	0.5	5	4.1	4	3.2	3	2.4	3	2.4	3	2.5	CONT.		CONT.	
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware			8	0.5	14	0.4	1	0.02	1	0.05	5	0.2	4	0.1	3	0.1	3	0.1	3	0.1	CONT.		CONT	
PRIOR YR EQUIP																								
FY 95 EQUIP			8	0.5																			8	0.5
FY 96 EQUIP					14	0.4																	14	0.4
FY 97 EQUIP							1	0.02															1	0.02
FY 98 EQUIP									1	0.05													1	0.05
FY 99 EQUIP											5	0.2											5	0.2
FY 00 EQUIP													4	0.1									4	0.1
FY 01 EQUIP															3	0.1							3	0.1
FY 02 EQUIP																	3	0.1					3	0.1
FY 03 EQUIP																			3	0.1			3	0.1
FY TC EQUIP																								
TOTAL INSTALLATION COST				0.5		0.4		0.02		0.05		0.2		0.1		0.1		0.1		0.1	CONT.		CONT.	
TOTAL PROCUREMENT COST				2.1		2.7		0.12		0.55		4.3		3.3		2.5		2.5		2.6	CONT.		CONT.	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 1 MONTH PROCUREMENT LEADTIME: 2 MONTHS

CONTRACT DATES: FY 1996: Apr 96 FY 1997: Jan 97 FY 1998: Feb 98 FY 1999: Oct 98

DELIVERY DATES: FY 1996: Jul 96 FY 1997: Mar 97 FY 1998: Apr 98 FY 1999: Dec 98

INSTALLATION SCHEDULE:	PY	FY 97				FY 98				FY 99			
		1	2	3	4	1	2	3	4	1	2	3	4
INPUT	22			1				1			5		
OUTPUT	22			1				1			5		

INSTALLATION SCHEDULE:	FY 00				FY 01				FY 02				FY 03				TC	TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
INPUT		4				3				3				3			CONT	CONT
OUTPUT		4				3				3				3			CONT	CONT

Feb-98

MODIFICATION TITLE: TMP Equipment (521V) (1V041/1V776) - Shore

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: This program improves the effectiveness and efficiency of cryptologic and general intelligence training at NAVTECTRACEN (NTTC) Corry Station, Fleet Intelligence Training Center (FITC) San Diego and Navy and Marine Corps Intelligence Center (NMITC) Dam Neck. State-of-the-art interactive multimedia classrooms and courseware will be developed for schoohouse use.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment									15	2.3	13	2.6	40	5.2	17	1.9	15	1.1	10	1.2	CONT.		CONT.	
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware									15	0.2	13	0.2	40	0.3	17	0.1	15	0.04	10	0.07	CONT.		CONT.	
PRIOR YR EQUIP																								
FY 95 EQUIP																								
FY 96 EQUIP																								
FY 97 EQUIP																								
FY 98 EQUIP									15	0.2													15	0.2
FY 99 EQUIP											13	0.2											13	0.2
FY 00 EQUIP													40	0.3									40	0.3
FY 01 EQUIP															17	0.1							17	0.1
FY 02 EQUIP																	15	0.04					15	0.04
FY 03 EQUIP																			10	0.07			10	0.07
FY TC EQUIP																					CONT.		CONT.	
TOTAL INSTALLATION COST										0.2		0.2		0.3		0.1		0.04		0.07	CONT.		CONT.	
TOTAL PROCUREMENT COST										2.5		2.8		5.5		2.0		1.14		1.27	CONT.		CONT.	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 1 MONTH PROCUREMENT LEADTIME: 2 MONTHS

CONTRACT DATES: FY 1996: FY 1997: FY 1998: Mar 98 FY 1999: Oct 98

DELIVERY DATES: FY 1996: FY 1997: FY 1998: May 98 FY 1999: Dec 98

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT								5	10		10	3	
OUTPUT								5	10		10	3	

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT		16	8	16		17				15				10			CONT	CONT
OUTPUT		16	8	16		17				15				10			CONT	CONT

Feb-98

MODIFICATION TITLE: Signals Analysis Laboratory (521V)(1V042/1V776) - Shore

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: This program directly supports tactical commanders with tailored and responsive feedback from theater Information Warfare (IW) exploitation operations
Navy Signals Analysis Laboratories (SALs) are forward based signals analysis and processing centers for complex communications and electronic emissions.
SALs require advanced signals processing equipment to keep pace with information technology and continually changing target sets
Funds are required to procure signals analysis equipment to perform shore-based IW exploitation of data resulting from mobile collection missions, and to deploy advanced signals analysis systems afloat to aid near real-time exploitation efforts.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

FINANCIAL PLAN: ($ in millions)

	PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment											10	0.7	6	0.8	7	0.5	2	0.4	2	0.4			27 *	2.8
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interm Contractor Support																								
Installation of Hardware*											10	0.10	6	0.03	7	0.10	2	0.02	2	0.04			27	0.29
PRIOR YR EQUIP																								
FY 95 EQUIP																								
FY 96 EQUIP																								
FY 97 EQUIP																								
FY 98 EQUIP																								
FY 99 EQUIP											10	0.10											10	0.1
FY 00 EQUIP													6	0.03									6	0.03
FY 01 EQUIP															7	0.10							7	0.1
FY 02 EQUIP																	2	0.02					2	0.02
FY 03 EQUIP																			2	0.04			2	0.04
FY TC EQUIP																								
TOTAL INSTALLATION COST												0.1		0.03		0.10		0.02		0.04				0.29
TOTAL PROCUREMENT COST												0.8		0.83		0.60		0.42		0.44				3.09

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 2 MONTHS PROCUREMENT LEADTIME: 3 MONTHS

CONTRACT DATES: FY 1996: FY 1997: FY 1998: FY 1999: Dec 98

DELIVERY DATES: FY 1996: FY 1997: FY 1998: FY 1999: May 99

INSTALLATION SCHEDULE:	PY	FY 97 1	FY 97 2	FY 97 3	FY 97 4	FY 98 1	FY 98 2	FY 98 3	FY 98 4	FY 99 1	FY 99 2	FY 99 3	FY 99 4
INPUT										0	0	2	8
OUTPUT										0	0	2	8

INSTALLATION SCHEDULE:	FY 00 1	FY 00 2	FY 00 3	FY 00 4	FY 01 1	FY 01 2	FY 01 3	FY 01 4	FY 02 1	FY 02 2	FY 02 3	FY 02 4	FY 03 1	FY 03 2	FY 03 3	FY 03 4	TC	TOTAL
INPUT	0	0	2	4	0	0	2	5	0	0	1	1	0	0	1	1		27
OUTPUT	0	0	2	4	0	0	2	5	0	0	1	1	0	0	1	1		27

* Inventory objective is 27.

UNCLASSIFIED
CLASSIFICATION

PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE: February 1998

APPROPRIATION/BUDGET ACTIVITY: OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE: CRYPTOLOGIC EQUIPMENT 3501

SUBHEAD NO.: 521V

COST CODE	ITEM/MANUFACTURER	FY	SERV	PROC QTY	ACCEP PRIOR TO 1-Oct	BAL DUE AS OF 1-Oct	FISCAL YEAR 96 PY OCT	NOV	DEC	CALENDAR YEAR 96 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	FISCAL YEAR 97 OCT	NOV	DEC	CALENDAR YEAR 97 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	FISCAL YEAR 98 OCT	NOV	DEC	CALENDAR YEAR 98 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1V040	CTE	97		1		1																A		1																		
1V040	CTE	98		1		1																													A		1					
1V040	CTE	99		5		5																																				
1V041	TMP EQUIPMENT	98		15		15																														A		5		5		5
1V041	TMP EQUIPMENT	99		13		13																																				
1V042	SAL	99		10		10																																				
1V043	T-RDF EQUIPMENT	98		2		2																												A					2			
1V043	T-RDF EQUIPMENT	99		3		3																																				
1V044	T-RDF ANTENNAS	98		4		4																												A					2	2		
1V044	T-RDF ANTENNAS	99		11		11																																				
1V045	ACCES SYSTEMS	98		12		12																										A				3	3	3	3			
1V045	ACCES SYSTEMS	99		17		17																																				
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST
ITEM NO. 118 PAGE NO. 10

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PRODUCTION SCHEDULE

(DOD EXHIBIT P-21A)

DATE
February 1998

APPROPRIATION/BUDGET ACTIVITY
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

P-1 ITEM NOMENCLATURE
CRYPTOLOGIC EQUIPMENT 3501

SUBHEAD NO.
521V

COST CODE	ITEM/MANUFACTURER/ PROCUREMENTY YEAR	FISCAL YEAR	CARRY OVER	FISCAL YEAR 99												FISCAL YEAR 00												FISCAL YEAR 01												LATER
				CY98			CALENDAR YEAR 99												CALENDAR YEAR 00												CALENDAR YEAR 01									
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1V040	CTE	99	5	A		5																																		
1V041	TMP EQUIPMENT	99	13	A		5		5		3																														
1V042	SAL	99	10			A					10																													
1V043	T-RDF EQUIPMENT	99	3				A					3																												
1V044	T-RDF ANTENNAS	99	11				A					3	3	3	2																									
1V045	ACCES SYSTEMS	99	17		A				3	3	3	3	3	2																										

ITEM	Manufacturer's Name and Location	PRODUCTION RATE MSR	1-8-5	MAX	PROCUREMENT LEADTIMES ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure

M 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST
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