

CLASSIFICATION:

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET							DATE:					
P-40							February 2004					
APPROPRIATION/BUDGET ACTIVITY BA-2 COMMUNICATIONS & OTHER PROCUREMENT, NAVY ELECTRONICS EQUIPMENT					P-1 ITEM NOMENCLATURE Shipboard Air Traffic Control (42MP) BLI #283100							
Program Element for Code B Items: Not Applicable					Other Related Program Elements 0604504N							
	Prior Years	ID Code		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total
QUANTITY												
COST (In Millions)	\$106.0	N/A		\$8.1	\$7.8	\$7.7	\$8.0	\$8.2	\$8.4	\$8.5	CONT	CONT
<p>DESCRIPTION: Shipboard Air Traffic Control (SATC) systems are responsible for safe and expeditious control of air traffic within 50 Nautical Miles of a ship. SATC systems include the air traffic surveillance radar, AN/SPN-43, and the air traffic central tracking and control system, AN/TPX-42, which has two major configurations: Carrier Air Traffic Control Center-Direct Altitude and Identity Readout (CATCC-DAIR) and Amphibious Air Traffic Control-Direct Altitude and Identity Readout (AATC-DAIR). Both DAIR systems use AN/SPN-43 and Identification Friend or Foe (IFF) inputs to track and control aircraft. Obsolescence problems are being addressed through various upgrades in a phased approach. The major upgrades include AN/SPN-43C, CATCC-to-AATC field change, and AN/TPX-42(V) Advanced Display System (ADS) upgrade, and a series of AN/TPX-42 modification kits requiring various combinations of AN/UYPK-44 processor rehost, track processor upgrade, AN/UYPQ-70 console, flat panel display, and other components to bring the predecessor system to AN/TPX-42A(V)14 with field changes 1 and 2 configuration.</p> <p>FY 2005 funds the procurement of one AN/TPX-42A(V)14 Upgrade A kit and two AN/TPX-42A(V)14 Upgrade C kits. It also funds the installation of one AN/TPX-42A(V)14 Upgrade A kit, three AN/TPX-42A(V)14 Upgrade C kits, and various AN/SPN-43 modification kits.</p> <p>Installing Agent: Shipyards and Alteration Installation Teams When installation to be made: ROH/SRA/RAV Ships or facilities to receive the equipment: CV/CVNs, LHD/LHAs, Software Support Activity (NAWCAD, St Inigoes), Integrated Combat System Test Facility (San Diego), Landing Systems Test Facility (NAWCAD, Patuxent River), and training sites.</p>												

P-1 SHOPPING LIST

CLASSIFICATION:

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BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS P-40a							DATE: February 2004				
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY			BA-2 COMMUNICATIONS & ELECTRONICS EQUIPMENT			P-1 ITEM NOMENCLATURE Shipboard Air Traffic Control (42MP)					
Procurement Items	ID Code	Prior Years		FY 2003	FY 2004	FY 2005					Total
MP042											
CATCC to AATC F/C KIT	N/A										
QTY		13									13
FUNDING		26.326									26.326
MP043											
AN/TPX-42 ADS UPG	N/A										
QTY		1									1
FUNDING		0.860									0.860
MP044 1/											
AN/TPX-42 UPG A KIT	N/A										
QTY				2	2	1					5
FUNDING				3.020	2.968	1.553					7.541
MP046											
AN/TPX-42 UPG C KIT	N/A										
QTY					1	2					3
FUNDING					0.815	2.276					3.091
MP047											
AN/TPX-42 UPG D KIT	N/A										
QTY					3						3
FUNDING					1.582						1.582
MP048											
AN/TPX-42 UPG E KIT	N/A										
QTY											0
FUNDING											0.000
OTHER COST	N/A	78.857		5.089	2.437	3.866					CONT
TOTAL P-1 FUNDING		106.043		8.109	7.802	7.695					CONT

P-1 SHOPPING LIST

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1/ As design for the AN/TPX-42A(V)14 with field changes 1 and 2 reached completion, it was found that more functionality could be transferred into the upgraded digital and signal processors. The originally conceived product line of A, B, C, and D kits were meant to convert various configurations of AN/TPX-42A(V) to the AN/TPX-42A(V)14 with field change 1 and 2 configuration. The current submission reflects consolidation of the A, B, C and D product lines into two product lines (A and C), which adequately convert all existing configurations.

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WEAPONS SYSTEM COST ANALYSIS P-5		Weapon System			DATE: February 2004		
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-2 COMMUNICATIONS & ELECTRONICS EQUIP		ID Code A	P-1 ITEM NOMENCLATURE/SUBHEAD Shipboard Air Traffic Control 42MP				

COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 2003			FY 2004			FY 2005					
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost			
MP023	AN/SPN-43 MOD KITS	N/A	1,027				Var.		1,517				Var.		63
MP042	CATCC TO AATC F/C KITS	N/A	26,326												
MP043	AN/TPX-42 ADS UPGRADE	N/A	860												
MP044	AN/TPX-42A(V)14 UPG A KIT 1/	N/A				2	1,510	3,020		2	1484	2,968	1	1553	1,553
MP046	AN/TPX-42A(V)14 UPG C KIT	N/A								1	815	815	2	1138	2,276
MP047	AN/TPX-42A(V)14 UPG D KIT	N/A								3	527	1,582			
MP048	AN/TPX-42A(V)14 UPG E KIT	N/A													
MP800	INTEGRATED LOGISTICS SUPPORT	N/A	888					245				246			319
MP830	PRODUCTION ENGINEERING SPT	N/A	1,774					775				250			248
MP840	QUALITY ASSURANCE	N/A	343					97				98			120
MP860	ACCEPTANCE TEST & EVALUATION	N/A	456					170							
MP900	NON-FMP INSTALLATION	N/A	3,168					309				438			305
MP910	FMP INSTALLATION	N/A	31,516					1,976				1405			2,811
	VARIOUS 2/	N/A	39,685												
1/ As design for the AN/TPX-42A(V)14 with field changes 1 and 2 reached completion, it was found that more functionality could be transferred into the upgraded digital and signal processors. The originally conceived product line of A, B, C, and D kits were meant to convert various configurations of AN/TPX-42A(V) to the AN/TPX-42A(V)14 with field change 1 and 2 configuration. The current submission reflects consolidation of the A, B, C and D product lines into two product lines (A and C), which adequately convert all existing configurations.															
2/ The amount identified against this cost element reflects total prior year funding associated with cost elements no longer financed in FY 2002 and beyond.															
			106,043						8,109				7,802		7,695

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			A. DATE February 2004			
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy					C. P-1 ITEM NOMENCLATURE BA2-Communications and Electronics Equipment					SUBHEAD 42MP	
Shipboard Air Traffic Control (SATC)											
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	
MP042 CATTTC to AATC-DAIR F/C Kits FY02	2	\$2,617	NAVAIR	N/A	PO	NAWCAD St. Inigoes	3/02	9/03	YES		
MP044 AN/TPX-42A(V)14 UPG A KIT											
FY03	2	\$1,510	NAVAIR	N/A	PO	NAWCAD St. Inigoes	12/02	10/03	YES		
FY04	2	\$1,484	NAVAIR	N/A	PO	NAWCAD St. Inigoes	12/03	10/04	YES		
FY05	1	\$1,553	NAVAIR	N/A	PO	NAWCAD St. Inigoes	12/04	10/05	YES		
MP046 AN/TPX-42A(V)14 UPG C KIT											
FY04	1	\$815	NAVAIR	N/A	PO	NAWCAD St. Inigoes	12/03	10/04	YES		
FY05	2	\$1,138	NAVAIR	N/A	PO	NAWCAD St. Inigoes	12/04	10/05	YES		
MP047 AN/TPX-42A(V)14 UPG D KIT											
FY04	3	\$527	NAVAIR	N/A	PO	NAWCAD St. Inigoes	3/04	3/05	YES		

D. REMARKS

1. System integration and assembly will be accomplished by the field activity, NAWCAD, after procuring individual components through existing contractual vehicles.
2. Due to maturing design of the AN/TPX-42A(V)14 with Field Changes 1 and 2, the B Kit and D Kit have become identical with the C Kit. All three requirements have now been merged under the C Kit's Cost Code, beginning in FY 2005.
3. Lead times for the A Kit and C Kit have decreased due to learning curve efficiencies and a change of contract for one of the major components.

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P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: CVs/CVNs, L-class, selected shore sites. TYPE MODIFICATION: Flight Safety MODIFICATION TITLE: SATC Modification Kit Summary (MP023, MP043, MP047, MP048)

DESCRIPTION/JUSTIFICATION:
 SATC MODIFICATION KIT SUMMARY This exhibit summarizes procurement and installation for project unit MP023, MP043 and MP048.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL			
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$		
FINANCIAL PLAN (IN MILLIONS)																						
<i>RDT&E</i>																						
<i>PROCUREMENT</i>																						
INSTALLATION KITS NRE																						
INSTALLATION KITS																						
EQUIPMENT NRE																						
EQUIPMENT	Var.	1.027																CONT		CONT		
Equipment "B"																						
TPX-42 Upg. D Kit					3	1.582														3	1.582	
TPX-42 Upg. E Kit															7	3.921	24	13.686	31	17.607		
TPX-42 ADS Upg.	1	0.860																		1	0.860	
SPN-43 Pitch/Roll Servo			28	1.514																28	1.514	
SPN-43 Tilt Meter			13	0.003													15	0.004	28	0.007		
SPN-43 STALO Repl.							6	0.063	6	0.063	9	0.112	5	0.061					2	0.026	28	0.325
SPN-43 Pedestal Upg.									2	0.312	6	1.048	1	0.165					19	3.543	28	5.068
SPN-43C Repl.															1	1.941	27	53.365	28	55.306		
INTEGRATED LOGISTICS SUPPORT		0.027		0.074		0.049		0.020		0.032		0.014		0.039		0.171		CONT		CONT		
PRODUCTION ENGINEERING		0.037		0.096		0.050		0.022		0.034		0.015		0.041		0.164		CONT		CONT		
QUALITY ASSURANCE		0.014		0.041		0.021		0.008		0.013		0.006		0.016		0.075		CONT		CONT		
ACCEPTANCE TEST & EVALUATION				0.170														CONT		CONT		
INSTALL COST		1.728		0.827		0.117		0.305		0.258		0.094		0.104		0.011		CONT		CONT		
OTHER		70.919																				70.919
TOTAL PROCUREMENT		74.612		2.725		1.819		0.418		0.712		1.289		0.426		6.283		CONT		CONT		

Exhibit P-3A (Individual Modification) CLASSIFICATION:

UNCLASSIFIED

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

MODELS OF SYSTEMS AFFECTED: CVs, CVNs, LHDs, LHAs, and selected shore sites. MODIFICATION TITLE: SATC Modification Kit Summary (MP023, MP043, MP048)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Field Change Install Team

ADMINISTRATIVE LEADTIME: Var. PRODUCTION LEADTIME: Var.

CONTRACT DATES: FY 2003: Var. FY 2004: Var. FY 2005: Var.

DELIVERY DATE: FY 2003: Var. FY 2004: Var. FY 2005: Var.

(\$ in Millions)

Cost:	Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS		1.728																			1.728
FY 2003 EQUIPMENT				0.827																	0.827
FY 2004 EQUIPMENT						0.117															0.117
FY 2005 EQUIPMENT								0.305													0.305
FY 2006 EQUIPMENT									0.258												0.258
FY 2007 EQUIPMENT										0.094											0.094
FY 2008 EQUIPMENT													0.104								0.104
FY 2009 EQUIPMENT																0.011					0.011
TO COMPLETE																	Var.	CONT			CONT

INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	TOTAL			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
In	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

CLASSIFICATION: **UNCLASSIFIED**

P3A	INDIVIDUAL MODIFICATION		
MODELS OF SYSTEM AFFECTED:	<u>CVs/CVNs, L-class,</u> <u>selected shore sites.</u>	TYPE MODIFICATION:	<u>Flight Safety</u>
		MODIFICATION TITLE:	<u>CATCC to AATC F/C Kits (MP042)</u>
DESCRIPTION/JUSTIFICATION:			
This kit retrofits CV/CVNs with improvements from the AATC-DAIR system configuration.			

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONE Production ECP 1/97 (configuration with ADS)

FINANCIAL PLAN (IN MILLIONS)	<u>Prior Years</u>		<u>FY 2003</u>		<u>FY 2004</u>		<u>FY 2005</u>		<u>FY 2006</u>		<u>FY 2007</u>		<u>FY 2008</u>		<u>FY 2009</u>		<u>TC</u>		<u>TOTAL</u>	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
<i>RD&E</i>																				
<i>PROCUREMENT</i>																				
INSTALLATION KITS NRE																				
INSTALLATION KITS																				
EQUIPMENT NRE																				
EQUIPMENT	13	26.326																	13	26.326
Equipment "B"																				
ECP 1 Grp "B"																				
ECP 2 Grp "B"																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
INTEGRATED LOGISTICS SUPPORT		0.167																		0.167
PRODUCTION ENGINEERING		0.228																		0.228
QUALITY ASSURANCE		0.084																		0.084
ACCEPTANCE, TEST & EVALUATION																				
INITIAL TRAINING																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	9	4.625	2	1.393	2	0.800													13	6.818
TOTAL PROCUREMENT		31.430		1.393		0.800														33.623

Exhibit P-3A (Individual Modification) CLASSIFICATION:

UNCLASSIFIED

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

MODELS OF SYSTEMS AFFECTED: CVs, CVNs, LHDs, LHAs, and selected shore sites. MODIFICATION TITLE: CATCC to AATC F/C Kits (MP042)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 18 Months

CONTRACT DATES: FY 2003: N/A FY 2004: N/A FY 2005: N/A
 DELIVERY DATE: FY 2003: N/A FY 2004: N/A FY 2005: N/A

(\$ in Millions)

Cost:	Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS	9	4.625	2	1.393	2	0.800													13	6.818
FY 2003 EQUIPMENT																				
FY 2004 EQUIPMENT																				
FY 2005 EQUIPMENT																				
FY 2006 EQUIPMENT																				
FY 2007 EQUIPMENT																				
FY 2008 EQUIPMENT																				
FY 2009 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				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	1	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	0	0
Out	9	1	0	1	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

CLASSIFICATION: **UNCLASSIFIED**

P3A	INDIVIDUAL MODIFICATION		
MODELS OF SYSTEM AFFECTED:	<u>CVs/CVNs, L-class, selected shore sites.</u>	TYPE MODIFICATION: <u>Flight Safety</u>	MODIFICATION TITLE: <u>AN/TPX-42A(V)14 Upgrade A Kit (MP044)</u>
DESCRIPTION/JUSTIFICATION:			
This upgrade converts AN/TPX-42A(V)12 to AN/TPX-42A(V)14 with Field Changes 1 and 2.			

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTON ECP 12/01

FINANCIAL PLAN (IN MILLIONS)	Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL		
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	
<i>RDT&E</i>																					
<i>PROCUREMENT</i>																					
INSTALLATION KITS NRE																					
INSTALLATION KITS																					
EQUIPMENT NRE																					
EQUIPMENT			2	3.020	2	2.968	1	1.553	1	1.579	1	1.607	2	3.271					9	13.998	
Equipment "B"																					
ECP 1 Grp "B"																					
ECP 2 Grp "B"																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
INTEGRATED LOGISTICS SUPPORT				0.171		0.098		0.095		0.091		0.092		0.094							0.641
PRODUCTION ENGINEERING				0.679		0.077		0.076		0.072		0.075		0.079							1.058
QUALITY ASSURANCE				0.056		0.031		0.037		0.036		0.037		0.039							0.236
ACCEPTANCE, TEST & EVALUATION																					
INITIAL TRAINING																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST			AP	0.065	2	0.732	1	0.703	1	0.781	2	1.319	AP	0.138	2	0.448	1	0.227	9	4.413	
TOTAL PROCUREMENT				3.991		3.906		2.464		2.559		3.130		3.621		0.448		0.227			20.346

NOTE: AP is advance planning for installation.

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Exhibit P-3A (Individual Modification) CLASSIFICATION:

UNCLASSIFIED

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

MODELS OF SYSTEMS AFFECTED: CVs, CVNs, LHDs, LHAs, and selected shore sites. MODIFICATION TITLE: AN/TPX-42A(V)14 Upgrade A Kit (MP044)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 2 Months PRODUCTION LEADTIME: 10 Months

CONTRACT DATES: FY 2003: 12/02 FY 2004: 12/03 FY 2005: 12/04
 DELIVERY DATE: FY 2003: 10/03 FY 2004: 10/04 FY 2005: 10/05

(\$ in Millions)

Cost:	Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS																					
FY 2003 EQUIPMENT			AP	0.065	2	0.667														2	0.732
FY 2004 EQUIPMENT					AP	0.065	1	0.703	1	0.648										2	1.416
FY 2005 EQUIPMENT									AP	0.067	1	0.660								1	0.727
FY 2006 EQUIPMENT									AP	0.066	1	0.659								1	0.725
FY 2007 EQUIPMENT													AP	0.069	1	0.224				1	0.293
FY 2008 EQUIPMENT													AP	0.069	1	0.224	1	0.227	2	0.520	
FY 2009 EQUIPMENT																					
TO COMPLETE																					

INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				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	1	1	0	0	1	1	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	1	0	0	0	9
Out	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	1	0	1	0	1	9

*NOTE: The system integrator, NAWCAD, has reduced total lead time to 12 months for all builds. This has been achieved by aggressively pursuing learning curve improvements.

CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: CVs/CVNs, L-class, selected shore sites. TYPE MODIFICATION: Flight Safety MODIFICATION TITLE: AN/TPX-42A(V)14 Upgrade C Kit (MP046)

DESCRIPTION/JUSTIFICATION:
 This upgrade converts AN/TPX-42A(V)13 and 14 to AN/TPX-42A(V)14 with Field Changes 1 and 2.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES ECP 12/01

FINANCIAL PLAN (IN MILLIONS)	Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		IC		TOTAL		
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	
RDT&E																					
PROCUREMENT																					
INSTALLATION KITS NRE																					
INSTALLATION KITS																					
EQUIPMENT NRE																					
EQUIPMENT					1	0.815	2	2.276	2	2.314	2	2.355	2	2.398			6	7.454	15	17.612	
Equipment "B"																					
ECP 1 Grp "B"																					
ECP 2 Grp "B"																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
INTEGRATED LOGISTICS SUPPORT						0.099		0.204		0.195		0.195		0.204		0.111					1.008
PRODUCTION ENGINEERING						0.123		0.150		0.143		0.148		0.159		0.170					0.893
QUALITY ASSURANCE						0.046		0.075		0.072		0.075		0.079		0.084					0.431
ACCEPTANCE, TEST & EVALUATION																					
INITIAL TRAINING																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST						0.194	1	2.108	2	2.053	2	1.011	2	1.480	2	1.436	6	3.080	15	11.362	
TOTAL PROCUREMENT						1.277		4.813		4.777		3.784		4.320		1.801		10.534			31.306

Exhibit P-3A (Individual Modification) CLASSIFICATION:

UNCLASSIFIED

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

MODELS OF SYSTEMS AFFECTED: CVs, CVNs, LHDs, LHAs, and selected shore sites. MODIFICATION TITLE: AN/TPX-42A(V)14 Upgrade C Kit (MP046)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 2 Months PRODUCTION LEADTIME: 10 Months

CONTRACT DATES: FY 2003: N/A FY 2004: 12/03 FY 2005: 12/04
 DELIVERY DATE: FY 2003: N/A FY 2004: 10/04 FY 2005: 10/05

(\$ in Millions)

Cost:	Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS																					
FY 2003 EQUIPMENT																					
FY 2004 EQUIPMENT					AP	0.194	1	1.911												1	2.105
FY 2005 EQUIPMENT							AP	0.197	2	1.944										2	2.141
FY 2006 EQUIPMENT									AP	0.109	2	0.875								2	0.984
FY 2007 EQUIPMENT										AP	0.136	2	1.342							2	1.478
FY 2008 EQUIPMENT												AP	0.138	2	1.366					2	1.504
FY 2009 EQUIPMENT																					
TO COMPLETE														AP	0.070	6	3.080	6	3.150	6	3.150

INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				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	1	0	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	6	15
Out	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	1	0	1	0	0	1	1	0	1	0	1	0	6	15				