CLASSIFICATION: UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET P-40	DATE: February 2004
APPROPRIATION/BUDGET ACTIVITY Aircraft Procurement, Navy/APN-5 Aircraft Modifications	P-1 ITEM NOMENCLATURE P-3 Series Modifications
Program Element for Code B Items:	Other Related Program Elements

	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)	2,194.5		167.8	139.2	135.0	158.2	126.3	96.2	139.6	1,960.8	5,117.5

This line item funds modifications to P-3 aircraft. The P-3 Orion is a 4 engine, long-range maritime surveillance aircraft which performs Anti-Submarine (ASW) and Anti-Surface Warfare (ASUW) in support of battle group and littoral operations. The overall goal of the modifications budgeted in FY2005 is to continue the USQ-78 installation (part of Update III), weapon system improvements, upgrading and refurbishing airframe components and systems. Total aircraft inventory is 150. The P-3C has an average service life of 29.5 years. The specific modifications budgeted and programmed are:

(TOA, $ in Millions)

OSIP No.	Description	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total
80-84	Update III Block Upgrade	1039.5	13.1	15.4	28.5	53.7	22.4			103.6	1276.3
53-85	Critical Systems Improvements	25.5	2.9	3.2	0.6	0.4	0.9	0.4	0.4		34.3
60-86	UHF/VHF Comm. Update	115.4	6.4								121.8
42-92	Counter Narcotics Improv Prog	3.8	2.6								6.4
29-94	ASUW Improv. Prog.	907.5	126.5	93.9	53.8	5.9			48.5	1636.0	2872.2
34-99	Additional Aircraft #1	41.0									41.0
22-00	Additional Aircraft #2	48.1									48.1
13-01	CNS/ATM	13.7	16.3	10.8	14.1	21.8	20.8	15.7	15.0	18.7	146.9
04-04	P-3 Critical Obsolscence Program			15.9	19.9	43.0	44.3	42.6	43.0	36.5	245.1
05-05	P-3/EP-3 Special Structural Inspection Kits				18.1	33.4	37.9	37.5	32.7	165.9	325.4
TOTAL		2194.5	167.8	139.2	135.0	158.2	126.3	96.2	139.6	1960.8	5117.5

* Indicates value less than $51,000.
Totals may vary due to rounding

CLASSIFICATION:

DD Form 2454, JUN 86

Exhibit P-3a INDIVIDUAL MODIFICATION

MODIFICATION T Update III Block Upgrade (OSIP 80-84)

MODELS OF SYSTEM AFFECTED: P-3C TYPE MODIFICAT Operational Improvement

DESCRIPTION/JUSTIFICATION:

The Update III Common Configuration provides the Fleet with significantly improved anti-submarine warfare detection and classification which are essential for targe prosecution in average and poor water conditions. This program will modify older P-3's to an Update III common configuration. This modification includes associated processors, receivers, displays, and recorders. Update III Common Configuration is comprised of two major efforts: the Block Modification Upgrade program and the AN/USQ-78 Upgrade program. Both are based on Decision Coordinating Paper W-080-AS and the Program Management Plan #0526 serial 902D/6U324405. The objective of the Block Modification Upgrade program is to standardize the Maritime Patrol Aircraft fleet to the Update III configuration. This will update the configuration of 25 Update I, II, and II.5 aircraft towards the total sustainment inventory requirement of 150 Update III configured aircraft. Eight of the 25 aircraft are Reserve assets. The objective of the AN/USQ-78 Upgrade program is to correct display shortcomings of the USQ-78 system as identified by Fleet Operational Advisory Group and by Operational Test and Evaluation, to provide for future workload sharing capability as directed by Chief Naval Operations (CNO) and processing growth for the life of the aircraft. Total aircraft and lab trainers to be modified by Loral ECP #LFS-95-001R2 is 160.

FY-02 SEI Congressional Plus-up provides associated NRE, 8 units, and installs as initial integration of new capability.

FY-02 Congressional Plus-up provides NRE for Acoustic Data Recorder-Digital (ADR-D) input enhancements, a prototype digital model (EDM) and 31 ADR-D upgrade kits.

FY-03 Congressional Plus-up provides associated NRE for 8 units to upgrade and install (ALR-95).

FY-03 Congressional Plus-up provides 10 additional ADR-D kits with some NRE for obsolescense issues.

FY-03 Congressional Plus-up for USQ-78(V) will be used to upgrade existing USQ78(V) hardware for technical refresh and End of Life (EOL) requirements.

FY-04 Congressional Plus-up upgrades the ADR tape transport to a hard drive configuration for reliability and maintainability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Update III received approval for limited production in December 1983 and December 1984. Approval for full production was received in January 1986.

Exhibit P-3a INDIVIDUAL MODIFICATION

MODIFICATION TITLE: Update III Block Upgrade (OSIP 80-84)

MODELS OF SYSTEM AFFECTED: P-3C TYPE MODIFICATION: Operational Improvement

FINANCIAL PLAN (TOA, $ in Millions):

	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	$
RDT&E																				
PROCUREMENT																				
Installation Kits																				
Prior Year Kits	434	72.5																		
MK-50 Kits	147	4.0																		
USQ-78(V) Kits	53	9.0			2	1.3	25	4.6												
Block Mod Upgrade Kits	8	9.9																		
Installation Kits N/R		65.7				2.2														
Installation Equipment																				
Prior Year Equipment	1,181	349.8																		
CP-2044/ASQ CPU Equip	121	64.1																		
USQ-78(V)/CHRDS Equip	53	83.7			2	5.8	25	20.3												
CHRDS Equip	4	.1																		
Block 1C Harpoon Equip	148	5.1																		
AN/ASH-33/RDDS	221	24.3																		
Common CONFIG Equip	22	64.0																		
PEP Equip	25	6.4																		
DASD/DASD Docks Equip	118	1.0			4	*	50	.5												
ADR/DDR		11.3		2.4		2.8														
SEI Cards		2.1																		
ESEI Hardware		1.1		1.8																
LESPA Equip		19.0																		

Notes:

1. Asterick indicates amount less than 51K

Exhibit P-3a

Exhibit P-3a

INDIVIDUAL MODIFICATION

MODIFICATION TITLE: Update III Block Upgrade (OSIP 80-84)

MODELS OF SYSTEM AFFECTED: P-3C

TYPE MODIFICATION: Operational Improvement

FINANCIAL PLAN (TOA, $ in Millions):

	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	$
RDT&E																				
Installation Equipment N/R		56.6		5.3				.5												
Engineering Change Orders																				
Data		16.8																		
Training Equipment		17.4																		
Support Equipment		1.6																		
ILS		3.7																		
Other Support		117.7		1.1		1.9		2.5												
Interim Contractor Support																				
Installation Cost	526	32.3	6	2.5	15	1.4	2	.2												
TOTAL PROCUREMENT	2,535	1,039.5		13.1	8	15.4	100	28.5												

Notes:
1. Totals do not add due to rounding
2. Asterick indicates amount less than 51K

Exhibit P-3a

Exhibit P-3a

MODELS OF SYSTEMS AFFECTED: P-3C

MODIFICATION TITLE: Update III Block Upgrade (OSIP 80-84) USQ-78A

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Installation will be accomplished on-site by contractor field team

ADMINISTRATIVE LEADTIME: 4 Months

PRODUCTION LEADTIME: 18 Months

CONTRACT DATES: FY 2003: ____ FY 2004: 10/03 FY 2005: 10/04

DELIVERY DATE: FY 2003: ____ FY 2004: 4/05 FY 2005: 4/06

($ 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	$
FY 2002 & PY (53) kits	33	1.9	5	.3	15	1.4														
FY 2003 () kits																				
FY 2004 (2) kits							2	.2												
FY 2005 (25) kits																				
FY 2006 (43) kits																				
FY 2007 (8) kits																				
FY 2008 () kits																				
FY 2009 () kits																				
To Complete (19) kits																				
TOTAL	33	1.9	5	.3	15	1.4	2	.2												

** FY07 funds installs for FY07-FY09.

Installation Schedule

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In	33	1	1	1	2	3	4	4	4			2				6	6	6	6	6	6
Out	33	1	1	1	2	3	4	4	4			2				6	6	6	6	6	6

	FY 2008				FY 2009				To Complete	TOTAL
	1	2	3	4	1	2	3	4		
In										
Out										

Completions same as inductions; one week effort.

- USQ-78A to be installed in trainers as depicted in the APN-5 install portion of the OSIP.

Exhibit P-3a

MODELS OF SYSTEMS AFFECTED: P-3C MODIFICATION TITLE: Update III Block Upgrade (OSIP 80-84) Block Mod Upgrade

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Installation will be accomplished at contractor's facility.

ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 24 Months

CONTRACT DATES: FY 2003: ____ FY 2004: ____ FY 2005: ____

DELIVERY DATE: FY 2003: ____ FY 2004: ____ FY 2005: ____

($ 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	$
FY 2002& PY (8) kits	7	8.7	1	1.5															8	10.3
FY 2003 () kits																				
FY 2004 () kits																				
FY 2005 () kits																				
FY 2006 () kits																				
FY 2007 () kits																				
FY 2008 () kits																				
FY 2009 () kits																				
To Complete () kits																				
TOTAL	7	8.7	1	1.5															8	10.3

NOTE: Block Mod Upgrade modifies 25 aircraft; 15 install kits and installations funded via a separate program outside OSIP 80-84; 8 install kits and installations reflected above are for USNR; 2 install kits and installations support validation effort through NRE.

Installation Schedule

	FY 2002	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In	7	1																			
Out	2	1	2	2	1																

	FY 2008				FY 2009				To Complete	TOTAL
	1	2	3	4	1	2	3	4		
In										8
Out										8

Exhibit P-3a INDIVIDUAL MODIFICATION

MODIFICATION TITLE: Critical Systems Improvements (OSIP 53-85)

MODELS OF SYSTEM AFFECTED: P-3C TYPE MODIFICATION: Readiness

DESCRIPTION/JUSTIFICATION:

The purpose of this program is to provide the requisite funding to implant various minor cost effective changes to critical P-3 weapon systems. These changes are essential to the operation of the aircraft and/or it's mission systems, but are not currently being addressed by an existing aircraft modification program. The changes can be either airframe, avionic, or procedures.

SINGLE ARMAMENT CONTROL PANEL (SACP) ECP JAX P3-649: This ECP replaces existing 9622068 Wing Jettison/Special Weapon Control Box and the A-393 Pilot's Armament Control Box in 228 P-3C aircraft with the PEU-196/A Pilot's Armament Control Box.

KAPTON WIRING REPLACEMENT MOD ECP JAX P3-610: This ECP replaces the Kapton wiring in the wing trailing edge of P-3C aircraft. The initial program will modify 97 P-3C aircraft.

STRUCTURAL DATA RECORDING SYSTEM (SDRS) ECP SEI 196-1A: The SDRS (ASH-37) CCB was approved in June of 1994 to install the ASH-37 in all P-3C aircraft. The funding to procure and install the kits was provided by OSIP 5-93. The funding for SDRS ended in FY95. The task covered in this OSIP include SDRS Pubs, SDRS data reduction and installation of last 20 kits.

STANDBY ATTITUDE INDICATOR (PEANUT GYRO) ECP BFGAAS ID-1481A/A-25583-48: This ECP modifies the P-3C Standby Attitude Indicator (Peanut Gyro) to operate with a DC power vice an AC power. This modification is planned for 150 P-3C's and 3 trainers.

E-J RECEIVER MOD AN/ALR-66 B(V)3 ECP LITTON 970: The AN/ALR-66B(V)3 ECP upgrades certain components of the AN/ALR-66A(V)3 ESM to improve system performance, including the E-J Amplifier Receivers, CD Amplifier Receivers, Processor Interface and Computer Converter. The effort under this OSIP supports the modification and certain RIM in support of AN/ALR-66 B(V)3 installs on 145 P-3C aircraft, 6 operational trainers and 10 test bench installations.

APS-115 FEEDBALL MODIFICATION ECP CUBIC 2509-02F3: This ECP are liability and performance improvement to the APS-115 radar feedball. The unmodified feedballs are susceptible to burning out which decreased the APS 115 sensitivity (or caused failure) and made the feedball incompatible with the AN/ALR-66 B(V)3 ESM system, which uses the feedball as the center channel receiver. This modified will be installed in all APS-115 equipped aircraft. This modification effects 90 P-3C aircraft.

P-3 PILOT/COPILOT/ PLANE CAPTAIN SEAT MODIFICATION FOR THE MA-16 INERTIA REEL ECP JAX P3-519: MA-1 and MA-2 Inertia Reels are no longer available in the supply system and further procurement is anticipated. This ECP provides a kit to modify 50 Pilot/Copilot/Plane Captain seats to install the MA-16 Inertia Reel as a substitute for the MA-1/2 to meet outstanding requirements.

FOLLOW-0N KAPTON WIRING REPLACEMENT (WHEEL WELLS) ECP TBD: The Kapton Wiring in the landing gear retraction housing areas (wheel wells) will require replacement due to weather exposure. Initial program will modify 18 P-3C aircraft.

DIGITAL AUTOPILOT: An FY02 Congressional Plus-Up provides funding to perform NRE, procure, install and test a Digital Autopilot in the P-3C as a replacement for the ASW-31 system, which is highly unreliable and costly to maintain. An FY-03 Congressional Plus-Up provides funding to procure and install four Digital Autopilot systems.

AIRCRAFT HEALTH MONITORING SYSTEM (AHMS) ECP N/A: An FY02 Congressional Plus-Up provides NRE funding to develop an AHMS for the P-3C which can monitor critical aircraft systems (engines, structures, electrical, avionics) to identify items that require maintenance or repair. An FY-03 Congressional Plus-Up provides funding to test an AHMS in a P-3C.

INFRA-RED (IR) STROBES ECP JAX P3-776: FY-02 Defense Emergency Response Fund (DERF) funding for 100 IR strobes for P-3 aircraft.

HUB INTEGRATED POWER SWITCHING SYATEM/PROPELLER BALANCING MONITORING SYSTEM (PBMS): An FY-04 Congressional Plus-Up provides funding to install and test a new propeller hub mounted system for power generation and in-flight measurement of propeller vibration and balancing requirements.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The changes identified are minor and do not require approval for full production.

Exhibit P-3a

Exhibit P-3a INDIVIDUAL MODIFICATION

MODIFICATION TITLE: Critical Systems Improvements (OSIP 53-85)

MODELS OF SYSTEM AFFECTED: P-3C TYPE MODIFICATION: Readiness

FINANCIAL PLAN (TOA, $ in Millions):

	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	$
RDT&E																				
PROCUREMENT																				
Installation Kits																				
APS-115 Feedball Mod	90	1.6																		
EJ Receiver Mod	145	**																		
Single Arm Cont Panel (SACP)	228	.7																		
Kapton Wire Replace (Wings)	97	1.0																		
Kapton Wire Replace (Wheel Well)																				
Standby (Peanut) Gyro Mod	61	.3	5	*	18	.1	13	.1												
AHMS			1	.1																
Digital Autopilot	5	.1																		
HIPSS/PBMS					20	.1														
Infra-Red (IR) Strobes	100	.5																		
MA-16 Inertial Reel Mod kits	50	.1																		
Prior Years Kits	171	7.6																		
Installation Kits N/R		3.7		.7		1.1														
Installation Equipment																				
AHMS			1	**																
Digital Autopilot	5	1.1																		
HIPSS/PBMS					20	.3														
Infra-Red (IR) Strobes	100	.5																		
Installation Equipment N/R																				
Engineering Change Orders																				
Data		2.2		.2		.1		.3												
Training Equipment		.3		.1				*												
Support Equipment		.2																		
ILS		*		.1																
Other Support		2.4		1.5		1.0		.2												
Interim Contractor Support																				
Installation Cost		3.2		.1		.4														
TOTAL PROCUREMENT	1,052	25.5	7	2.9	58	3.2	13	.6												

Notes:
1. Totals do not add due to rounding
2. Asterick indicates amount less than 51K ** AHMS Equipment on Loan from Contractor.

Exhibit P-3a

Exhibit P-3a

MODELS OF SYSTEMS AFFECTED: P-3C MODIFICATION TITLE: Critical Systems Improvement (OSIP 53-85) Kapton Wiring (Wings)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Contractor Field Mod Team

ADMINISTRATIVE LEADTIME: Months PRODUCTION LEADTIME: 5 Months

CONTRACT DATES: FY 2003: ____ FY 2004: ____ FY 2005: ____

DELIVERY DATE: FY 2003: ____ FY 2004: ____ FY 2005: ____

($ 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	$
FY 2002 & PY (97) kits	96	.9	1	*															97	.9
FY 2003 () kits																				
FY 2004 () kits																				
FY 2005 () kits																				
FY 2006 () kits																				
FY 2007 () kits																				
FY 2008 () kits																				
FY 2009 () kits																				
To Complete () kits																				
TOTAL	96	.9	1	*															97	.9

Installation Schedule

	FY 2002	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In	96				1																
Out	96				1																

	FY 2008				FY 2009				To Complete	TOTAL
	1	2	3	4	1	2	3	4		
In										97
Out										97

Exhibit P-3a

MODELS OF SYSTEMS AFFECTED: P-3C MODIFICATION TITLE: Critical Systems Improvement (OSIP 53-85) Kapton Wiring (Wheel Well)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Contractor Field Mod Team

ADMINISTRATIVE LEADTIME: Months PRODUCTION LEADTIME: 5 Months

CONTRACT DATES: FY 2003: FY 2004: FY 2005:

DELIVERY DATE: FY 2003: FY 2004: FY 2005:

($ 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	$
FY 2002 & PY () kits																				
FY 2003 () kits																				
FY 2004 () kits																				
FY 2005 () kits																				
FY 2006 () kits																				
FY 2007 (18) kits																				
FY 2008 () kits																				
FY 2009 () kits																				
To Complete () kits																				
TOTAL																				

Installation Schedule

	FY 2002	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In																					
Out																					

	FY 2008				FY 2009				To	
	1	2	3	4	1	2	3	4	Complete	TOTAL
In										
Out										

Exhibit P-3a

MODELS OF SYSTEMS AFFECTED: P-3C

MODIFICATION TITLE: Critical Systems Improvement (OSIP 53-85) Digital Autopilot

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Contractor Field Mod Team

ADMINISTRATIVE LEADTIME: 5 Months

PRODUCTION LEADTIME: 8 Months

CONTRACT DATES: FY 2003: ____ FY 2004: ____ FY 2005: ____

DELIVERY DATE: FY 2003: ____ FY 2004: ____ FY 2005: ____

($ 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	$
FY 2002 & PY(5) kits	*	.4	1	*	4	*													5	.4
FY 2003 () kits																				
FY 2004 () kits																				
FY 2005 () kits																				
FY 2006 () kits																				
FY 2007 () kits																				
FY 2008 () kits																				
FY 2009 () kits																				
To Complete () kits																				
TOTAL	*	.4	1	*	4	*													5	.4

* FY02 Congressional Add funds (5) install.

Installation Schedule

	FY 2002	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In					1				4												
Out					1				4												

	FY 2008				FY 2009				To	
	1	2	3	4	1	2	3	4	Complete	TOTAL
In										5
Out										5

Exhibit P-3a

MODELS OF SYSTEMS AFFECTED: P-3C MODIFICATION TITLE: Critical Systems Improvement Program (OSIP 53-85) Structural Data Recorder Set

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: Months PRODUCTION LEADTIME: Months

CONTRACT DATES: FY 2003: FY 2004: FY 2005:

DELIVERY DATE: FY 2003: FY 2004: FY 2005:

($ 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	$
FY 2002 & PY (4) kits	4	.1																	4	.1
FY 2003 () kits																				
FY 2004 () kits																				
FY 2005 () kits																				
FY 2006 () kits																				
FY 2007 () kits																				
FY 2008 () kits																				
FY 2009 () kits																				
To Complete () kits																				
TOTAL	4	.1																	4	.1

*NOTE: Four (4) previously procured SDRS kits are being installed in FY02 due to aircraft availability.

Installation Schedule

	FY 2002	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In	4																				
Out	4																				

	FY 2008				FY 2009				To	
	1	2	3	4	1	2	3	4	Complete	TOTAL
In										4
Out										4

Exhibit P-3a

INDIVIDUAL MODIFICATION

MODIFICATION TITLE: Ultra High Frequency (UHF)/Very High Frequency (VHF) Communications Update (OSIP 60-86)

MODELS OF SYSTEM AFFECTED: P-3A/B/C & 4 Special Projects

TYPE MODIFICATION: Readiness

DESCRIPTION/JUSTIFICATION:

P-3 aircraft have an operational requirement for UHF satellite communications (SATCOM) , and currently have satellite capable communications suites. JCS Memo CJCSI 6251.01 OF 31 July 1996 modified SATCOM access to require Advanced Narrowband Digital Voice Terminal (ANDVT) and Demand Assigned Mulitple Access (DAMA) standards by 30 September 1996. In addition, the ARC-101 VHF radio does not have a 25KHz channel capability and does not comply with Air Traffic Control regulations and represents a potential safety of flight issue. The older UHF and VHF (ARC-143 and ARC-101) radios suffer from considerable degraded performance because of crosstalk sensitivity, lack of channel selectivity, intermodulation and are not compatible with the JCS satellite access requirements. The ARC-182 is the Navy's standard VHF radio and corrects the VHF deficiencies. Ir FY 1993, Vinson Baseband kits were procured to provide succinct channel identification for the ARC-187 radios currently installed in P-3 aircraft.

The FY 1994 and subsequent programs will bring 108 P-3C aircraft to a common radio configuration which meets all requirements for SATCOM and Havequick. 108 P-3C aircraft will receive the ANDVT/SATCOM (CIP) installation. Additionally, 32 P-3C A/C will have the ARC-182 radio installed in conjunction with CIP and 23 aircraft will have the ARC-187 radio (2 per A/C) installed in conjunction with CIP. Some of the ARC-182 and/or ARC-187 installations may occur as stand-alone to meet fleet requirements.

P-3C Communications Improvement Program (CIP) Engineering Change Proposal (ECP) Lockheed 1025: This ECP covers the installation of the kit and equipment necessary for DAMA SATCOM which includes the AN/ARC-187/VIASAT Modem combination, modified ARC-187 Controls and Advanced Narrowband Digital Voice Terminal (ANDVT). In aircraft that presently do not have an ARC-187 UHF and/or ARC-182 VHF radios installed, ECP 988 (UHF) and/or ECP 990 (VHF) will be installed in conjunction with ECP 1025 or through stand-alone installations.

This OSIP update reflects program funding termination as of FY03.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The ARC-182 and ARC-187 radios have Approval for Full Production (AFP) and are verified in the P-3 aircraft. ECP 1025 (CIP) was approved in January 1997. DAMA SATCOM certification for the ARC-187/Viasat Modem combination was received in March 1998.

Exhibit P-3a

Exhibit P-3a INDIVIDUAL MODIFICATION

MODIFICATION TITLE: Ultra High Frequency (UHF)/Very High Frequency (VHF) Communications Update (OSIP 60-86)

MODELS OF SYSTEM AFFECTED: P-3A/B/C & 4 Special Projects TYPE MODIFICATION: Readiness

FINANCIAL PLAN (TOA, $ in Millions):

	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	$
RDT&E																				
PROCUREMENT																				
Installation Kits																				
AFC(P-3C)ARC-182	166	3.4																	166	3.4
AFC(P-3C)ARC-187	186	2.6																	186	2.6
AFC(P-3A/B)ARC-182	11	.3																	11	.3
AFC(P-3C)UHF/VHF UPGRADE	26	.3																	26	.3
AFC(P-3C)KG-84	143	2.6																	143	2.6
AFC(P-3C)SATCOM COMPATIBILI	141	1.6																	141	1.6
AFC(P-3C)VINSON BASEBAND	378	2.2																	378	2.2
AFC(P-3C) CIP (ANDVT/DAMA)	88	2.3	20	.6															108	2.9
Installation Kits N/R		27.4																		27.4
Installation Equipment																				
ARC-187 (2 per A/C)	374	19.0																	374	19.0
ARC-187 POWER SUPPLY MOD	90	.5																	90	.5
ARC-210	10	.4																	10	.4
ARC-182**	179	4.2																	179	4.2
ARC-187 Control (2 per A/C)	194	2.8	40	.8															234	3.5
CRYPTO Fill Port (2 per A/C)	208	.3	40	.1															248	.3
Interface Adapter Assembly (IAA)	91	.4	20	.1															111	.5
Diplexer	91	.4	20	.1															111	.6
Modem (1 per A/C)	106	4.0	11	.3															117	4.3
ANDVT	91	***	20	***															111	***
Installation Equipment N/R		3.1																		3.1
Engineering Change Orders																				
Data		6.2		.5																6.7
Training Equipment	68	3.7																	68	3.7
Support Equipment		2.3																		2.3
ILS		1.7		.5																2.2
Other Support		13.9		1.8																15.7
Interim Contractor Support																				
Installation Cost	1,096	9.7	79	1.6															1,175	11.3
TOTAL PROCUREMENT	2,641	115.5	171	6.4															2,812	121.8

Notes:

1. Totals do not add due to rounding
2. Asterisk indicates amount less than 51K

** AN/ARC-182 radios to be obtained from F/A18 or other aircraft installing AN/ARC-210 radios.

*** ANDVT provided by NSA. **** Included in Prototype A-Kit cost.

Exhibit P-3a

Exhibit P-3a

MODELS OF SYSTEMS AFFECTED: P-3A/B/C

MODIFICATION TITLE: Ultra High Frequency (UHF)/Very High Frequency (VHF) Communications Update (OSIP 60-86)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: P-3A/B/C & 4 Special Projects

ADMINISTRATIVE LEADTIME: 6 Months

PRODUCTION LEADTIME: 10 Months

CONTRACT DATES: FY 2003: 2/03 FY 2004: FY 2005:

DELIVERY DATE: FY 2003: 12/03 FY 2004: FY 2005:

($ 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	$
FY 2002 & PY (1155) kits	1,096	9.7	37	.9	22	**													1,155	10.6
FY 2003 (20) kits				.7	20	**													20	.8
FY 2004 () kits																				
FY 2005 () kits																				
FY 2006 () kits																				
FY 2007 () kits																				
FY 2008 () kits																				
FY 2009 () kits																				
To Complete () kits																				
TOTAL	1,096	9.7	37	1.6	42	**													1,175	11.3

** FY03 funds installs in FY04.

Installation Schedule

	FY 2002	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In	1096	3	11	11	12	10	10	11	11												
Out	1096	3	11	11	12	10	10	11	11												

	FY 2008				FY 2009				To	
	1	2	3	4	1	2	3	4	Complete	TOTAL
In										1175
Out										1175

Exhibit P-3a INDIVIDUAL MODIFICATION

MODIFICATION TITLE: Anti-Surface Warfare (ASUW) Improvement Program (OSIP 29-94)

MODELS OF SYSTEM AFFECTED: P-3C TYPE MODIFICATION Operational Improvement

DESCRIPTION/JUSTIFICATION:

The Navy's Maritime Patrol and Reconnaissance Force (primarily P-3C Orion aircraft) provides three deliverables to Navy and joint commanders worldwide: Undersea warfare; Intelligence Surveillance, and Reconnaissance; and Maritime Surveillance Targeting. The ASUW Improvement Program meets the Navy's requirement to rapidly provide a significant increase in the current P-3's ability to perform Anti-Submarine Warfare (ASW), Anti-Surface Warfare (ASUW), Over-the-Horizon Targeting (OTH-T), and Command, Control, Communications, Computers, and Intelligence (C^4I).The target aircraft for this modification are P-3C Update II/II.5 and Update III. This modification focuses on improving the weapon system's capability for standoff targeting and classification. Significant sensor improvements and capabilities are provided by the APS-137D (V) 5 imaging radar, the Advanced Imaging Multi-Spectral Sensor (AIMS) electro optical/infrared system, and ESM upgrades that include Specific Emitter Identification (SEI), SEI Utility Improvement, ALR-95, improved pulse processing, and DF accuracy. C^4I is improved with a DAMA Satcom radio suite and Multi-mission Advanced Tactical Terminal (MATT) that can receive the Officer in Tactical Command Information Exchange System (OTCIXS), and other fleet broadcasts. Additional planned Phased Capability Upgrade (PCU) improvements include the Maritime Surveillance Targeting (MST) capability as well as Tactical Common Data Link (TCDL). Survivability enhancements include the ALE-47/AAR-47 missile warning countermeasures, explosive suppressant foam, and small circular area of probability weapon system (Maverick, SLAM, SLAM-ER, and provisions to carry and launch all Mil Std 1760 Digital weapons such as JSOW). Additional funding in FY1995 and FY1996 was utilized to meet an urgent fleet requirement to upgrade 17 Pre-AIP aircraft with Maverick armament control kits. The P3 AIP operational requirement document (ORD) is Ser # 355-88-94.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

This modification makes maximum use of previously developed subsystems.

FINANCIAL PLAN (TOA, $ in Millions):

	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	$
RDT&E (H-2417)		9.4																		
PROCUREMENT																				
Installation Kits																				
AFC A Kit	62	69.8	5	5.7	3	4.8	1	2.4												
AFC B Kit		235.1		27.1		20.7		14.6												
Pre-AIP Armament Kit	17	12.9																		
Installation Kits N/R		30.3		6.1		.2														
Installation Equipment																				
GFE Sensors and Avionics		232.6		32.5		18.5		13.8												
Advanced IRDS		4.0																		
Phased Capability Upgrade(MST				1.0		8.1														
Installation Equipment N/R		41.9		15.0		5.2														
Engineering Change Orders		17.6		5.0		5.0														
Data		14.7		1.0		1.4		.4												
Training Equipment		49.4		5.4		1.9		3.3												
Support Equipment		11.1		.4		.4		.1												
ILS		12.2		1.7		.5		.3												
Other Support		96.8		10.4		9.8		6.2												
Interim Contractor Support																				
Installation Cost	58	79.1	5	15.1	5	17.5	2	12.6												
TOTAL PROCUREMENT	79	907.5	5	126.5	3	93.9	1	53.8												

Notes:
1. Totals do not add due to rounding
2. Asterisk indicates amount less than 51K

Exhibit P-3a

MODELS OF SYSTEMS AFFECTED: P-3C MODIFICATION TITLE: Anti-Surface Warfare (ASUW) Improvement Program (OSIP 29-94)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Installation through FY98 funded turn-key operation. Installation for FY99 and out years funded in the year they occur.

ADMINISTRATIVE LEADTIME: 1 Months PRODUCTION LEADTIME: 16 Months

CONTRACT DATES: FY 2003: 10/02 FY 2004: 10/03 FY 2005: 10/04

DELIVERY DATE: FY 2003: 02/04 FY 2004: 02/05 FY 2005: 02/06

($ 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	$
FY 2002 & PY (62) kits **	56	79.1	4	11.6	2	**														
FY 2003 (5) kits ***			***	3.5	4	14.2	1	***												
FY 2004 (3) kits ****					****	3.3	3	12.6												
FY 2005 (1) kit																				
FY 2006 ( ) kits																				
FY 2007 () kits																				
FY 2008 () kits																				
FY 2009 () kits																				
To Complete (73) kits																				
TOTAL	56	79.1	4	15.1	6	17.5	4	12.6												

** FY 02 Congressional Add funds two (2) installs.
*** FY 03 Congressional Add funds one (1) install.
**** FY 04 Congressional Add funds one (1) install.

Installation Schedule

	FY 2002	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In	56		1	1	2		2	2	2		2	2									
Out	52	2	2	1	1	2		2	2	1	1	1	1								

	FY 2008				FY 2009				To	
	1	2	3	4	1	2	3	4	Complete	TOTAL
In										144
Out										144

Exhibit P-3a INDIVIDUAL MODIFICATION

MODIFICATION TITLE ADDITIONAL AIRCRAFT #1 (OSIP 34-99)

MODELS OF SYSTEM AFFECTED: P-3 Special Projects TYPE MODIFICATION Investment

DESCRIPTION/JUSTIFICATION:

This requirement is to provide an additional special project aircraft that can be used to maintain force structure while other mission aircraft are being replaced or upgraded.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The current inventory is four mission aircraft. Periods of maintenance and major modifications typically reduced inventory to three or less available for CINC's tasking. This additional fifth mission aircraft would allow for four aircraft to be available for CINC tasking at all times. Special Projects aircraft are directly tasked by JCS, opeating as a Low-Density High-Demand asset under Global Military Force Policy. An additional special project mission aircraft was the number 2 priority of the FY99 Special Projects Operational Advisory Board.

FINANCIAL PLAN (TOA, $ in Millions):

	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	$
RDT&E																				
PROCUREMENT																				
Installation Kits	1	3.5																	1	3.5
Installation Kits N/R		3.1																		3.1
Installation Equipment	1	21.6																	1	21.6
Installation Equipment N/R																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
ILS																				
Other Support		1.3																		1.3
Interim Contractor Support																				
Installation Cost	1	11.5																	1	11.5
TOTAL PROCUREMENT	2	41.0																	2	41.0

Notes:
1. Totals do not add due to rounding
2. Asterisk indicates amount less than 51K

Exhibit P-3a

Exhibit P-3a

MODELS OF SYSTEMS AFFECTED: P-3 Special Projects MODIFICATION TITLE: Additional Aircraft #1

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Depot Level Modification

ADMINISTRATIVE LEADTIME: 9 Months PRODUCTION LEADTIME: 6 Months

CONTRACT DATES: FY 2003: ____ FY 2004: ____ FY 2005: ____

DELIVERY DATE: FY 2003: ____ FY 2004: ____ FY 2005: ____

($ 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	$
FY 2002& PY (1) kits	1	11.5																	1	11.5
FY 2003 () kits																				
FY 2004 () kits																				
FY 2005 () kits																				
FY 2006 () kits																				
FY 2007 () kits																				
FY 2008 () kits																				
FY 2009 () kits																				
To Complete () kits																				
TOTAL	1	11.5																	1	11.5

Installation Schedule

	FY 2002 & PRIOR	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In	1																				
Out			1																		

	FY 2008				FY 2009				To Complete	TOTAL
	1	2	3	4	1	2	3	4		
In										1
Out										1

Exhibit P-3a INDIVIDUAL MODIFICATION

MODIFICATION TITLE ADDITIONAL AIRCRAFT #2 (OSIP 22-00)

MODELS OF SYSTEM AFFECTED: P-3 Special Projects TYPE MODIFICATION Investment

DESCRIPTION/JUSTIFICATION:

This requirement is to provide an additional special project aircraft that can be used to maintain force structure while other mission aircraft are being replaced or upgraded. This effort also includes Congressional direction to replace obsolete equipment on four (4) other Special Project aircraft.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The current inventory is four mission aircraft. Periods of maintenance and major modifications typically reduced inventory to three or less available for CINC's tasking. This additional sixth mission aircraft would allow for four aircraft to be available for CINC tasking at all times. Special Projects aircraft are directly tasked by JCS, opeating as a Low-Density High-Demand asset under Global Military Force Policy. An additional special project mission aircraft was the number 2 priority of the FY99 Special Projects Operational Advisory Board.

FINANCIAL PLAN (TOA, $ in Millions):

	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	$
RDT&E																				
PROCUREMENT																				
Installation Kits	1	4.0																	1	4.0
Installation Kits N/R																				
Installation Equipment	1	32.1																	1	32.1
Installation Equipment N/R																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
ILS																				
Other Support		1.8																		1.8
Interim Contractor Support																				
Installation Cost	1	10.2																	1	10.2
TOTAL PROCUREMENT	2	48.1																	2	48.1

Notes:
1. Totals do not add due to rounding
2. Asterisk indicates amount less than 51K

Exhibit P-3a

Exhibit P-3a

MODELS OF SYSTEMS AFFECTED: P-3 Special Projects MODIFICATION TITLE: Additional Aircraft #2

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Depot Level Modification

ADMINISTRATIVE LEADTIME: 9 Months PRODUCTION LEADTIME: 9 Months

CONTRACT DATES: FY 2003: FY 2004: FY 2005:

DELIVERY DATE: FY 2003: FY 2004: FY 2005:

($ 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	$
FY 2002 & PY (1) kits	1	10.2																	1	10.2
FY 2003 () kits																				
FY 2004 () kits																				
FY 2005 () kits																				
FY 2006 () kits																				
FY 2007 () kits																				
FY 2008 () kits																				
FY 2009 () kits																				
To Complete () kits																				
TOTAL	1	10.2																	1	10.2

Installation Schedule

	FY 2002 & PRIOR	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In	1																				
Out					1																

	FY 2008				FY 2009				To Complete	TOTAL
	1	2	3	4	1	2	3	4		
In										1
Out										1

Exhibit P-3a INDIVIDUAL MODIFICATION

MODIFICATION TITLE: Communications Navigation Surveillance/Air Traffic Management (OSIP 13-01)

MODELS OF SYSTEM AFFECTED: P-3C/EP-3 TYPE MODIFICATION: Operational Improvement/Safety

DESCRIPTION/JUSTIFICATION:

P-3C aircraft have a requirement for a Communications, Navigation and Surveillance/ Air Traffic Management (CNS/ATM) upgrades to meet expanding CNS/ATM requirements and ensure global access to commercial airspace. The CNS/ATM requirements consist of various avionics systems upgrades/replacements which currently include; VHF radio with 8.33 kHz channel spacing and VHF data link (VDL), IFF (Mode S and Mode 5), protected ILS/VOR with FM Immunity, and an upgraded GPS to provide increased navigation accuracy (RNP5, BRNAV, RVSM). Successful integration of any or all of these capabilities, and any future Federal Aviation Administration (FAA) or International Civil Aviation Organization (ICAO) mandates, requires an Flight Management System (FMS) which provides for growth and interface flexibility. This OSIP provides non-recurring engineering for the development of the CNS/ATM architecture for the P-3 aircraft which includes a FMS/CDU, air data computer (ADC) and an Electronic Flight Display Systems (EFDS). This modification program provides CNS/ATM upgrades for 150 P-3C aircraft and 16 EP-3 aircraft. P-3C CNS/ATM Engineering Change Proposal (ECP) TBD: There is presently no specific ECP associated with the CNS/ATM architecture design and development.

NOTE: CNO directed 150 P-3C aircraft in FY05.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The CNS/ATM architecture development in FY-01 and FY-02 is funded by Congressional Plus-ups. MMR procurement in FY-02 is funded by a Congressional Plus-up.

FINANCIAL PLAN (TOA, $ in Millions):

	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	$
RDT&E																				
PROCUREMENT																				
Installation Kits																				
FMS/CDU	1	.2	1	.2	2	.1	18	1.1												
8.33kHz VHF Radio			10	*	18	*		****												
Digital ADC	1	*	1	*	2	*	18	.4												
MMR (P-ILS)	39	.2	21	.1	29	.2		****												
CXP (IFF/MODE S)	1	*	1	*	2	***		****												
EFDS **	66	.4	6	.4	18	1.2	18	1.5												
Installation Kits N/R		5.7		2.5																
Installation Equipment																				
FMS/CDU	3	.2	3	.2	6	.8	57	2.4												
8.33kHz VHF Radio			10	.5	18	.8		****												
Digital ADC	1	*	1	*	2	.1	19	.8												
MMR (P-ILS)	78	3.2	42	1.7	58	2.4		****												
CXP (IFF/MODE S)	1	*	1	.1	2	.1 ***		****												
RINU-G (RNP 4/5)			2	*	4	.1 ***		****												
EFDS **	66	.7	6	.8	18	2.4	20	2.7												
Installation Equipment N/R				6.6																
Engineering Change Orders																				
Data		*				.9		.5												
Training Equipment	2	**					8	1.3												
Support Equipment																				
ILS		.2		.5		.2		.3												
Other Support		2.7		2.2		1.1		1.5												
Interim Contractor Support																				
Installation Cost **	1	.2	1	.6		.4	2	1.5												
TOTAL PROCUREMENT	259	13.7	105	16.3	179	10.8	158	14.1												

Notes:
1. Totals do not add due to rounding
2. Asterisk indicates amount less than 51K

** 60 EFDS funded under GPS OSIP 28-92
*** CXP and RINU-G funding in FY04 is for TKIs.
**** Beginning in FY-04, PMA-209 will fund NRE, Kits, equipment and installs for 8.33kHz VHF radio, CPX, MMR and RINU-G.

Exhibit P-3a

MODELS OF SYSTEMS AFFECTED: P-3C/EP-3/Derivatives MODIFICATION TITLE: CNS/ATM (OSIP 13-01) Architecture

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Contractor Field Team

ADMINISTRATIVE LEADTIME: 9 Months PRODUCTION LEADTIME: 8 Months

CONTRACT DATES: FY 2003: FY 2004: 6/04 FY 2005: 6/05

DELIVERY DATE: FY 2003: FY 2004: 2/05 FY 2005: 2/06

($ 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	$
FY 2002 & PY (1) kits	**	.2	1	**																
FY 2003 (1) kits			***	.1	1	***														
FY 2004 (2) kits							2	.2												
FY 2005 (18) kits																				
FY 2006 (29) kits																				
FY 2007 (25) kits																				
FY 2008 (25) kits																				
FY 2009 (32) kits																				
To Complete (33) kits																				
TOTAL		.2	1	.1	1	***	2	.2												

P-3C Prototype NRE, prototype kit and prototype installation funded in FY02 with Congressional Plus-Up.

Block CNS/ATM Architecture installs begin in FY05 and consist of FMS/CDU, Digital Air Data Computer (ADC) and EFDS.

** FY02 Congressional Add funds one (1) install

** FY03 Congressional Add includes one (1) EP-3 install

Installation Schedule

	FY 2002 & PRIOR	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In			1				1				1	1									
Out				1				1				1	1								

	FY 2008				FY 2009				To Complete	TOTAL
	1	2	3	4	1	2	3	4		
In										
Out										

Exhibit P-3a

MODELS OF SYSTEMS AFFECTED: P-3C/EP-3/Derivatives MODIFICATION TITLE: CNS/ATM (OSIP 13-01) Multimode Receivers (MMRs)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Contractor Field Team

ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 8 Months

CONTRACT DATES: FY 2003: 05/03 FY 2004: 02/04 FY 2005:

DELIVERY DATE: FY 2003: 01/04 FY 2004: 10/04 FY 2005:

($ 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	$
FY 2002 & PY (39) kits	14	**	25	**															39	**
FY 2003 (21) kits			***	*	21	*													21	*
FY 2004 (29) kits					****	*	29	*											29	*
FY 2005 () kits																				
FY 2006 () kits																				
FY 2007 () kits																				
FY 2008 () kits																				
FY 2009 () kits																				
To Complete () kits																				
TOTAL	14	**	25	**	21	*	29	*											89	.1

NOTE: Will conduct stand-alone MMR installations in FY01-05 to meet immediate requirements. The remainder of MMRs will be procured and installed by PMA-209.

* Asterisk indicates amount less than 51K

** O-Level - Roll-On/Roll-Off, No Install Cost

**** FY03 Congressional Plus up funds 21 installs in FY04.

**** Includes the 14 FY04 Congressional Add.

Installation Schedule

	FY 2002	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	& PRIOR	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In	14		12	13			10	11		7	7	7	8								
Out	14		12	13			10	11		7	7	7	8								

	FY 2008				FY 2009				To	
	1	2	3	4	1	2	3	4	Complete	TOTAL
In										89
Out										89

Exhibit P-3a

MODELS OF SYSTEMS AFFECTED: P-3C/EP-3/Derivatives MODIFICATION TITLE: CNS/ATM (OSIP 13-01) Electronic Flight Display Systems (EFDS)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Contractor Field Team

ADMINISTRATIVE LEADTIME: 9 Months PRODUCTION LEADTIME: 8 Months

CONTRACT DATES: FY 2003: 6/03 FY 2004: 6/04 FY 2005: 6/05

DELIVERY DATE: FY 2003: 2/04 FY 2004: 2/05 FY 2005: 2/06

($ 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	$
FY 2002 & PY (66) kits	60	*	6	.5																
FY 2003 (6) kits			**	.1	6	.4														
FY 2004 (18) kits							18	1.3												
FY 2005 (18) kits																				
FY 2006 (29) kits																				
FY 2007 (25) kits																				
FY 2008 (4) kits																				
FY 2009 () kits																				
To Complete () kits																				
TOTAL	60	*	6	.6	6	.4	18	1.3												

Note: Will conduct stand-alone EFDS installations in FY01-05 to meet immediate requirements. EFDS will be installed concurrent with CNS/ATM Architecture installs beginning in FY05.

* Prior year EFDS funded under GPS OSIP 29-92

** FY-03 Congressional Add includes one EP-3 EFDS installation.

Installation Schedule

	FY 2002	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	& PRIOR	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In	60		2	2	2	1	1	2	2	4	4	5	5								
Out	60			2	2	2	1	1	2	2	4	4	5								

	FY 2008				FY 2009				To	
	1	2	3	4	1	2	3	4	Complete	TOTAL
In										
Out										

Exhibit P-3a INDIVIDUAL MODIFICATION

MODIFICATION TITLE: P-3 Critical Obsolescence Program (OSIP 04-04)

MODELS OF SYSTEM AFFECTED: P-3C TYPE MODIFICATION: Readiness Improvement

DESCRIPTION/JUSTIFICATION:

The purpose of this program is to incorporate a number of cost effective changes to the P-3 weapon system, specifically targeting improvements to high cost and maintenance and obsolete readiness degrader items. These improvements are a vital element of the P-3 sustainment bridge, significantly enhancing the strategy of a smaller, more ready, more capable P-3 force during the bridge to Multi-Mission Maritime Aircraft (MMA). The increased readiness and capabilities that will be realized, support the foundational sustainment bridge elements, specifically operational availability and common configuration. Planned improvements under this OSIP cover airframe, propulsion and avionics related subsystems, utilizing Commercial Off-The-Shelf Systems (COTS) technology to the maximum extent practicable to minimize development and procurement costs, and to reduce the time to field the improved systems.

FY04 Congressional Plus-Up of $2.0M for Electro-Optics and Communications Upgrade.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

This Modification makes maximum use of Commercial Off-The-Shelf Systems that have been installed on operational platforms.

FINANCIAL PLAN (TOA, $ in Millions):

	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	$
RDT&E (H1152)						4.5		5.5												
PROCUREMENT																				
Installation Kits																				
HF Radio Kit					3	.1	8	.1												
Data Link Kit					3	.1	8	.1												
Infrared Detection Kit					3	.1	9	.1												
Auto-Pilot Kit					3	.1	9	.2												
Inter Communications Kit					3	.1	8	.1												
Installation Kits N/R						.5		.5												
Installation Equipment																				
HF Radio Kit					3	.8	8	2.1												
Data Link Kit					3	.2	8	.6												
Infrared Detection Kit					3	1.5	9	4.5												
Auto-Pilot Kit					3	.9	9	2.2												
Inter Communications Kit					3	1.2	8	3.1												
Installation Equipment N/R						6.8		.8												
Engineering Change Orders																				
Data						.2		.4												
Training Equipment						1.7		.8												
Support Equipment						.5		.6												
ILS						.2		.4												
Other Support						1.1		2.0												
Interim Contractor Support																				
Installation Cost							15	1.5												
TOTAL PROCUREMENT					30	15.9	84	19.9												

Notes:
1. Totals do not add due to rounding
2. Asterisk indicates amount less than 51K

Exhibit P-3a

MODELS OF SYSTEMS AFFECTED: P-3C

MODIFICATION TITLE: P-3 Critical Obsolescence Program (OSIP 04-04) HF Radio

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Installation will be accomplished by contractor mod teams.

ADMINISTRATIVE LEADTIME: 3 Months

PRODUCTION LEADTIME: 12 Months

CONTRACT DATES: FY 2003: FY 2004: 01/04 FY 2005: 01/05

DELIVERY DATE: FY 2003: FY 2004: 01/05 FY 2005: 01/06

($ 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	$
FY 2002 & PY () kits																				
FY 2003 () kits																				
FY 2004 (3) kits							3	.1												
FY 2005 (8) kits																				
FY 2006 (30) kits																				
FY 2007 (30) kits																				
FY 2008 (25) kits																				
FY 2009 (33) kits																				
To Complete (21) kits																				
TOTAL							3	.1												

Installation Schedule

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In											3										
Out												3									

	FY 2008				FY 2009				To Complete	TOTAL
	1	2	3	4	1	2	3	4		
In										
Out										

Exhibit P-3a

MODELS OF SYSTEMS AFFECTED: P-3C

MODIFICATION TITLE: P-3 Critical Obsolescence Program (OSIP 04-04) Data Link

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Installation will be accomplished by contractor mod teams.

ADMINISTRATIVE LEADTIME: 3 Months

PRODUCTION LEADTIME: 12 Months

CONTRACT DATES: FY 2003: FY 2004: 01/04 FY 2005: 01/05

DELIVERY DATE: FY 2003: FY 2004: 01/05 FY 2005: 01/06

($ 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	$
FY 2002 & PY () kits																				
FY 2003 () kits																				
FY 2004 (3) kits							3	.1												
FY 2005 (8) kits																				
FY 2006 (30) kits																				
FY 2007 (30) kits																				
FY 2008 (25) kits																				
FY 2009 (33) kits																				
To Complete (21) kits																				
TOTAL							3	.1												

Installation Schedule

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In											3										
Out												3									

	FY 2008				FY 2009				To Complete	TOTAL
	1	2	3	4	1	2	3	4		
In										
Out										

Exhibit P-3a

MODELS OF SYSTEMS AFFECTED: P-3C

MODIFICATION TITLE: P-3 Critical Obsolescence Program (OSIP 04-04) Infrared Detection

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Installation will be accomplished by contractor mod teams.

ADMINISTRATIVE LEADTIME: 3 Months

PRODUCTION LEADTIME: 12 Months

CONTRACT DATES: FY 2003: FY 2004: 01/04 FY 2005: 01/05

DELIVERY DATE: FY 2003: FY 2004: 01/05 FY 2005: 01/06

($ 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	$
FY 2002 & PY () kits																				
FY 2003 () kits																				
FY 2004 (3) kits							3	.1												
FY 2005 (9) kits																				
FY 2006 (19) kits																				
FY 2007 (18 kits																				
FY 2008 (17) kits																				
FY 2009 () kits																				
To Complete () kits																				
TOTAL							3	.1												

Installation Schedule

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In											3										
Out												3									

	FY 2008				FY 2009				To Complete	TOTAL
	1	2	3	4	1	2	3	4		
In										
Out										

Exhibit P-3a

MODELS OF SYSTEMS AFFECTED: P-3C

MODIFICATION TITLE: P-3 Critical Obsolescence Program (OSIP 04-04) Auto-Pilot

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Installation will be accomplished by contractor mod teams.

ADMINISTRATIVE LEADTIME: 3 Months

PRODUCTION LEADTIME: 12 Months

CONTRACT DATES: FY 2003: FY 2004: 01/04 FY 2005: 01/05

DELIVERY DATE: FY 2003: FY 2004: 01/05 FY 2005: 01/06

($ 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	$
FY 2002 & PY () kits																				
FY 2003 () kits																				
FY 2004 (3) kits							3	.1												
FY 2005 (9) kits																				
FY 2006 (29) kits																				
FY 2007 (29) kits																				
FY 2008 (24) kits																				
FY 2009 (35) kits																				
To Complete (21) kits																				
TOTAL							3	.1												

Installation Schedule

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In											3										
Out												3									

	FY 2008				FY 2009				To Complete	TOTAL
	1	2	3	4	1	2	3	4		
In										
Out										

Exhibit P-3a

MODELS OF SYSTEMS AFFECTED: P-3C

MODIFICATION TITLE: P-3 Critical Obsolescence Program (OSIP 04-04) Inter Communications System

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Installation will be accomplished by contractor mod teams.

ADMINISTRATIVE LEADTIME: 6 Months

PRODUCTION LEADTIME: 12 Months

CONTRACT DATES: FY 2003: FY 2004: 04/04 FY 2005: 01/05

DELIVERY DATE: FY 2003: FY 2004: 01/05 FY 2005: 01/06

($ 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	$
FY 2002 & PY () kits																				
FY 2003 () kits																				
FY 2004 (3) kits							3	1.2												
FY 2005 (8) kits																				
FY 2006 (19) kits																				
FY 2007 (18) kits																				
FY 2008 (18) kits																				
FY 2009 () kits																				
To Complete () kits																				
TOTAL							3	1.2												

Installation Schedule

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In											3										
Out												3									

	FY 2008				FY 2009				To Complete	TOTAL
	1	2	3	4	1	2	3	4		
In										
Out										

Exhibit P-3a INDIVIDUAL MODIFICATION

MODIFICATION TITLE: P-3/EP-3 Special Structural Inspection - Kits (SSI-K) (OSIP 05-05)

MODELS OF SYSTEM AFFECTED: All P-3 T/M/S TYPE MODIFICATION Sustainment

DESCRIPTION/JUSTIFICATION:

The Special Structural Inspection - Kits Program is an OSIP which will capture the P-3C aircraft's test demonstrated fatigue life by preemptively replacing airframe components identified as having impact on future aircraft availability due to safety, structural performance, and component unsupportability. This will allow full realization of the aircraft's designed service life but will not extend the fatigue life of those aircraft. Unchecked, these problem areas collectively will result in significant loss of aircraft from the operational inventory due to operational and support funding limitations. To ensure future aircraft safety and supportability, this procurement investment includes a number of cost effective modifications to a number of systems, which are amound the principle degraders on the aircraft.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN (TOA, $ in Millions):

	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	$
RDT&E																				
PROCUREMENT																				
Installation Kits																				
SSIK Kit							11	5.5												
Installation Kits N/R								1.0												
Installation Equipment																				
SSIK Kit																				
Installation Equipment N/R																				
Engineering Change Orders																				
Data								.4												
Training Equipment																				
Support Equipment								.5												
ILS								.5												
Other Support								2.1												
Interim Contractor Support																				
Installation Cost							4	8.0												
TOTAL PROCUREMENT							11	18.1												

Notes:
1. Totals do not add due to rounding
2. Asterisk indicates amount less than 51K

Exhibit P-3a

MODELS OF SYSTEMS AFFECTED: All P-3 T/M/S

MODIFICATION TITLE: P-3/EP-3 Special Structural Inspection - Kits (SSI-K) (OSIP 05-05)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Installation will be accomplished by contractor mod teams.

ADMINISTRATIVE LEADTIME: 3 Months

PRODUCTION LEADTIME: 8 Months

CONTRACT DATES: FY 2003: _____ FY 2004: _____ FY 2005: 11/04

DELIVERY DATE: FY 2003: _____ FY 2004: _____ FY 2005: 06/05

($ 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	$
FY 2002 & PY () kits																				
FY 2003 () kits																				
FY 2004 () kits																				
FY 2005 (11) kits							4	8.0												
FY 2006 (13) kits																				
FY 2007 (13) kits																				
FY 2008 (12) kits																				
FY 2009 (5) kits																				
To Complete (49) kits																				
TOTAL							4	8.0												

Installation Schedule

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In												4									
Out													4								

	FY 2008				FY 2009				To Complete	TOTAL
	1	2	3	4	1	2	3	4		
In										
Out										