	EXHIBIT R-2,	RDT&E Budget Item	Justification				DATE:	
							Februar	ry 2006
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENC	LATURE	
RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY /		E	3A 5			0604221N, P-3 MOD	DERNIZATION PRO	GRAM
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
Total PE Cost	11.838	10.637	16.139	8.638	3.572	3.563	3.610	
1152 P-3 SENSOR INTEGRATION	5.855	4.319	14.036	6.493	1.422	1.343	1.316	
3016 FATIGUE LIFE MANAGEMENT PROGRAM	2.120	2.968	2.103	2.145	2.150	2.220	2.294	
9368 ALR-95 SEI NETWORKING PROGRAM	2.898							
9551 PERSONAL DIGITAL ASSISTANT MAINTENANCE	.965							
9999, CONGRESSIONAL ADDS		3.350						

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This program provides for P-3C aircraft systems development in subsurface and surface surveillance, search, detection, localization, classification, attack and communications in support of Sea Shield/Sea Power 21. The P-3C Sensor Integration project integrates advanced and future ASW and ASuW sensors, weapons systems, and supporting technology into legacy P-3C systems and phased capabilities upgrades. Also, P-3 Sensor Integration will expand software and hardware technology of P-3 systems to integrate additional sensor and processing capabilities, environmental prediction tools, tactical decision aides, color capabilities and communications to improve aircrew tactical proficiency and battlespace awareness. Sensor Integration is a continuous effort to integrate and test newly evolving ASW and ASuW technologies such as Analyzer Sub-Unit and System Controller Technology Insertions, "Extended Echo Ranging" (EER) family of Multi-Static active systems, Acoustic Rapid Cots Insertion (ARCI), Non-acoustic ASW sensors and systems, and future Technical Refresh insertions for obsolescence and processing improvements. Develop interface control for ASW weapon improvement solutions. The Over the Horizon (OTH) Wideband system will provide the P-3C AIP aircraft the capability to conduct OTH Satellite communications which will allow the on-station aircraft to transmit real time sensitive acoustic intelligence data which will maximize enemy detections, tracking, and engagement opportunities.

Fatigue Life Management Program is required to manage P-3/EP-3 inventory fatigue life and includes ongoing structural analysis, analyzing emergent structural issues, conducting engineering studies, assessing Fleet impact, and applying new technologies such as Non-Destructive Inspection (NDI) techniques.

ALR-95 SEI Networking Program will provide Specific Emitter Identification (SEI) connectivity to common tactical networks. The ALR-95 Radio Frequency Distribution (RFD) will upgrade the system of the ALR-95 with fiber optic cable to reduce losses and improve performance. The ALR-95 electronic support measures (ESM) system specific emitter identification (SEI) networking and performance enhancement upgrade.

The Personal Digital Assistant Maintenance Application Program (PDA MAP) will reduce paper data collection and manual data entry process associated with scheduled maintenance inspections. PDA MAP will improve efficiency, increase data collection accuracy, and reduce Naval Aviation Logistics Command Management Information System (NALCOMIS) data entry time.

Exhibit R-2 RDTEN Budget Item Justification (Exhibit R-2, Page 1 of 25)

	EXHIBIT R-2a, RDT&E Project Justification OPRIATION/BUDGET ACTIVITY PROJECT NUMBER AND NAME PROJECT NUMBER AND NAME												
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /	AME RATION												
COST (\$ in Millions)	FY 2005 5.855	FY 2006 4.319	FY 2007 14.036	FY 2008 6.493	FY 2009 1.422	FY 2010 1.343	FY 2011 1.316						
1152 P-3 SENSOR INTEGRATION RDT&E Articles Qty													

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This program provides for P-3C aircraft systems development in subsurface and surface surveillance, search, detection, localization, classification, attack and communications in support of Sea Shield/Sea Power 21. The P-3C Sensor Integration project integrates advanced and future ASW and ASuW sensors, weapons systems, and supporting technology into legacy P-3C systems and phased capabilities upgrades. The program also advances Air ARCI efforts by replacing legacy MIL-SPEC UYS-1 with increasingly open, COTS-based architecture. Also, P-3 Sensor Integration will expand software and hardware technology of P-3 systems to integrate additional sensor and processing capabilities, environmental prediction tools, tactical decision aides, color capabilities and communications to improve aircrew tactical proficiency and battlespace awareness. Sensor Integration is a continuous effort to integrate and test newly evolving ASW and ASuW technologies such as Analyzer Sub-Unit (ASU) and System Controller (SC) Technology Insertions, "Extended Echo Ranging" (EER) family of Multi-Static active systems, Acoustic Rapid Cots Insertion (ARCI), Non-acoustic ASW sensors and systems, and future Technical Refresh insertions for obsolescence and processing improvements. Develop interface control for ASW weapon improvement solutions. The Over the Horizon (OTH) Wideband system will provide the P-3C AIP aircraft the capability to conduct OTH Satellite communications which will allow the on-station aircraft to transmit real time sensitive acoustic intelligence data which will maximize enemy detections, tracking and engagement opportunities.

	EXHI	BII R-2a. RDI	&E Project Justifi	cation			DATE:	
		,						February 2006
PPROPRIATION/BUDGET ACTIVITY		PROGRAM	1 ELEMENT NUM	BER AND NAM	E	PROJECT NUM	IBER AND NAME	
DT&E, N /	BA 5		P-3 MODERNIZA				OR INTEGRATION	
- · · · - ,		1000 122 111,				[::=,:=		
. ACCOMPLISHMENTS / PLANNED PROGRAM:								
ACCOMI EIGHMENTO / 1 EANNED I ROCK WIII.								
	FY 2005	FY 2006	FY 2007					
complishments / Effort / Sub-total Cost	1 1 2000	1 1 2000	11.000					
DT&E Articles Qty			11.000					
Tal Atticles Qty				l l				
The OTH Wideband program will provide P-3C AI	IP aircraft the capab	ility to conduct	OTH Satelitte co	mmunications	Specifically, this r	rogram will design, deve	elop, integrate and ev	valuate this capability of
	iii airorait tire capab	inty to corrador	O II I Galciillo Go	minamoations.	opeomodily, this p	rogiam will acsign, acv	siop, integrate and e	raidate triis capability c
-3C AIP aircraft.								
	IFY 2005	IFY 2006	FY 2007					
complishments / Effort / Sub-total Cost	FY 2005	FY 2006	FY 2007					
		FY 2006	FY 2007					
			FY 2007					
T&E Articles Qty	3.8	344						
T&E Articles Qty	3.8	344		acting, engineer	ng, and program ma	nagement of the five COP	systems (HF Radio.	Data Link, Infrared
complishments / Effort / Sub-total Cost DT&E Articles Qty P-3 Critical Obsolescence Program (COP): Integration	ion, prototyping, testin	344		acting, engineeri	ng, and program ma	nagement of the five COP	systems (HF Radio,	Data Link, Infrared
DT&E Articles Qty P-3 Critical Obsolescence Program (COP): Integrati	ion, prototyping, testin	344		acting, engineeri	ng, and program ma	nagement of the five COP	systems (HF Radio,	Data Link, Infrared
T&E Articles Qty 2-3 Critical Obsolescence Program (COP): Integrati	ion, prototyping, testin	344		acting, engineeri	ng, and program ma	nagement of the five COP	systems (HF Radio,	Data Link, Infrared
T&E Articles Qty 2-3 Critical Obsolescence Program (COP): Integrati	ion, prototyping, testin	344		acting, engineeri	ng, and program ma	nagement of the five COP	systems (HF Radio,	Data Link, Infrared
T&E Articles Qty 2-3 Critical Obsolescence Program (COP): Integrati	ion, prototyping, testin	344		acting, engineeri	ng, and program ma	nagement of the five COP	systems (HF Radio,	Data Link, Infrared
T&E Articles Qty 2-3 Critical Obsolescence Program (COP): Integrati	ion, prototyping, testin	344		acting, engineeri	ng, and program ma	nagement of the five COP	systems (HF Radio,	Data Link, Infrared
DT&E Articles Qty P-3 Critical Obsolescence Program (COP): Integrati	ion, prototyping, testin	344		acting, engineeri	ng, and program ma	nagement of the five COP	systems (HF Radio,	Data Link, Infrared
DT&E Articles Qty P-3 Critical Obsolescence Program (COP): Integrati	ion, prototyping, testin	344		acting, engineeri	ng, and program ma	nagement of the five COP	systems (HF Radio,	Data Link, Infrared
DT&E Articles Qty P-3 Critical Obsolescence Program (COP): Integrati	ion, prototyping, testin	344		acting, engineeri	ng, and program ma	nagement of the five COP	systems (HF Radio,	Data Link, Infrared
DT&E Articles Qty	ion, prototyping, testin	344		acting, engineeri	ng, and program ma	nagement of the five COP	systems (HF Radio,	Data Link, Infrared
DT&E Articles Qty P-3 Critical Obsolescence Program (COP): Integrati	ion, prototyping, testin	344		acting, engineeri	ng, and program ma	nagement of the five COP	systems (HF Radio,	Data Link, Infrared
DT&E Articles Qty P-3 Critical Obsolescence Program (COP): Integrati	ion, prototyping, testin	344		acting, engineeri	ng, and program ma	nagement of the five COP	systems (HF Radio,	Data Link, Infrared

	FY 2005	FY 2006	FY 2007	
Accomplishments / Effort / Sub-total Cost	2.011	4.319	3.036	
RDT&E Articles Qty				

This program provides for P-3C aircraft systems development in subsurface and surface surveillance, search, detection, localization, classification, attack and communications in support of Sea Shield/Sea Power 21. The P-3C Sensor Integration project integrates advanced and future ASW and ASuW sensors, weapons systems, and supporting technology into legacy P-3C systems and phased capabilities upgrades. Also, P-3 Sensor Integration will expand software and hardware technology of P-3 systems to integrate additional sensor and processing capabilities, environmental prediction tools, tactical decision aides, color capabilities and communications to improve aircrew tactical proficiency and battlespace awareness. Sensor Integration is a continuous effort to integrate and test newly evolving ASW and ASuW technologies such as Analyzer Sub-Unit (ASU) and System Controller (SC) Technology Insertions, "Extended Echo Ranging" (EER) family of Multi-Static active systems, Acoustic Rapid Cots Insertion (ARCI), Non-acoustic ASW sensors and systems, Digital Sono Receiver, and future Technical Refresh insertions for obsolescence and processing improvements. Develop interface control for ASW weapon improvement solutions.

UNCLASSIFIED R-1 Shopping List Item No 89 (Exhibit R-2a, Page 3 of 25)

EXHIBIT	R-2a, RDT&E	Project Justification	DATE:
			February 2006
	PROGRAM EL	EMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
BA 5	0604221N, P-3	MODERNIZATION PROGRAM	1152, P-3 SENSOR INTEGRATION
FY 2005	FY 2006	FY 2007	
6.124	4.387	3.215	
5.855	4.319	14.036	
-0.269	-0.068	10.821	
	-0.002		
-0.027	-0.046		
	-0.020	0.067	
-0.242		10.754	
-0.269	-0.068	10.821	
nsertion milestone	moved from 2	Q/06 to 2Q/05 to meet an emergent prior	rity requirement for implementing improvements into the USQ-78.
	FY 2005 6.124 5.855 -0.269 -0.027	FY 2005 FY 2006 6.124 4.387 5.855 4.319 -0.269 -0.068 -0.002 -0.027 -0.046 -0.020 -0.242 -0.269 -0.068	FY 2005 FY 2006 FY 2007 6.124 4.387 3.215 5.855 4.319 14.036 -0.269 -0.068 10.821 -0.002 -0.027 -0.046 -0.020 0.067 -0.242 10.754

Exhibit R-2a, RDTEN Project Justification (Exhibit R-2a, Page 4 of 25)

	EXHIBIT	R-2a, RDT&E	Project Justific	ation				DATE:		
								F	February 2006	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM EL	EMENT NUME	BER AND NAM	E		PROJECT NUMBER	R AND NAME		
RDT&E, N /	BA 5	0604221N, P-3	MODERNIZA	TION PROGRA	M		1152, P-3 SENSOR	INTEGRATION		
D. OTHER PROGRAM FUNDING SUMMARY:	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Cost	
BLI 0538 P-3 Critical Obsolescence Program (COP) (OSIP 04-04)	24.267	34.169	43.697	42.120	46.174	39.698	35.462	264.718	530.305	

E. ACQUISITION STRATEGY:

The Air Deployable Active Receiver/Improved Extended Echo Ranging (IEER) Operational Requirements Document (Ser# 297(1)-05-97)) for 1152 was approved on 29 December 1997. The P-3 ASUW Improvement Program (AIP) ORD (Ser#355-88-94) for 2417 was approved on 30 March 1994. The Acquisition Plan (AIR-93-08A Rev 2) was approved on 30 March 1998. The ASR (AIR-ASR-26A Rev 3) was approved 29 Nov 1999 which includes Over the Horizon (OTH) Wideband system.

Fuhihit D. 2 Coot Applysis (page 4)							20	/O.C	DATE:	F-1		
Exhibit R-3 Cost Analysis (page 1)		IDDO OD AMELEMENT				Inno Inno		/06		Februa	ary 2006	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT					NUMBER AN					
RDT&E, N /	BA 5	0604221N, P-3 MODERNIZATION PROGRAM		1	T	1152, P-3 S	ENSOR INT	EGRATION	T	1	1	
	Contract				FY 2005		FY 2006		FY 2007	_		Target
	Method &		Total PY s	FY 2005	Award	FY 2006	Award	FY 2007	Award	Cost to		Value o
Cost Categories	Туре	Performing Activity & Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Total Cost	Contrac
PRODUCT DEVELOPMENT												
Primary Hdw Development-LM Eagan	_	LOCKHEED MARTIN CORP, EAGAN, MN							10/31/2006	.799		6.4
Systems Eng - LM Eagan		LOCKHEED MARTIN CORP, EAGAN, MN							10/31/2006	1.300		4.1
Systems Eng - LOCKHEED-MARTIN		LOCKHEED MARTIN CORP, MANASSAS, VA		1.741				1.436	1/30/2007		3.177	3.1
Systems Eng - VARIOUS	VARIOUS	VARIOUS	30.440		1/15/2005	2.132	1/8/2006			Continuing	Continuing	
All other PY Product Development Cost			6.425									6.4
SUBTOTAL PRODUCT DEVELOPMENT			36.865	1.791		2.132		9.986		Continuing	Continuing	
Remarks:												
SUPPORT												
OTH Software Development-NAWC PAX	WX	NAWCAD, PATUXENT RIVER MD		1				.850	10/31/2006	.400	1.250	
Software Development -NAWC PAX		NAWCAD, PATUXENT RIVER MD	2.897	.200	1/19/2005	.500	1/8/2006	1.600		Continuing		
All other PY Support Cost			22.340		171072000		.,0,2000		17672001	0011111111111	22.340	22.3
SUBTOTAL SUPPORT			25.237			.500		2.450	1	Continuing		
TEST & EVALUATION	1400	NAME OF THE PROPERTY OF THE PR	2044	1010	4/0/0005		1/0/0000					
Dev Test & Eval -NAWC PAX		NAWCAD, PATUXENT RIVER MD	2.241	1.642	1/8/2005	.650	1/8/2006			Continuing		
OTH Test Support	WX	NAWCAD, PATUXENT RIVER MD							10/31/2006	.150		
SUBTOTAL TEST & EVALUATION			2.241	1.642		.650		.350		Continuing	Continuing	
Remarks:				,								
MANAGEMENT												
Government Program Management Supp		NAWCAD, PATUXENT RIVER MD	.794				1/8/2006			Continuing		
Government Tech Support		NAWCAD, PATUXENT RIVER MD	.366				1/8/2006			Continuing		
Government Tech Support - MITRE		THE MITRE CORPORATION, MCLEAN VA		.070							.070	
Logistics Support		NAWCAD, PATUXENT RIVER MD	.370	.664	1/8/2005	.187	1/8/2006			Continuing		
OTH Government Eng Sup-NAWC PAX		NAWCAD, PATUXENT RIVER MD							10/31/2006	.250		
OTH Government Tech Support		NAWCAD, PATUXENT RIVER MD							10/31/2006	.100		
OTH Logistics Support		NAWCAD, PATUXENT RIVER MD						.250	10/31/2006	.100		
OTH Program Management Support	WX	NAWCAD, PATUXENT RIVER MD						.250	10/31/2006	.100	.350	
All other PY Management Cost			13.060								13.060	
SUBTOTAL MANAGEMENT			14.590	2.222		1.037		1.250		Continuing	Continuing	
Remarks:	T	I	78.933	5.855	ı	4.319		14.036	.I	Continuino	Continuing	
otal Oost	l		10.933	J.000	l	4.319		14.030	'1	Continuing	i Continuing	<u></u>
Remarks:												

CLASSIFICATION:																																
EXHIBIT R4, Schedule I																									DATE		ļ	Februa	ry 200	6		
APPROPRIATION/BUDGET														R AND								ECT N										
RDT&E, N /	BA-	5			1				06042	21N, F	P-3 MC	DERN	IIZATI	ON PR	OGRA	M					1152,	P-3 SE	NSOF	R INTE	GRAT	ION						
Fiscal Year		FY:	2005			FY	2006			FY 2	2007			FY 2	800			FY 2	2009			FY 2	010			FY 2	2011					
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
EER Multi-Static Active Sensor System Support																																
EER Fleet Technology Insertion																																
P-3 Critical Obsolesence Program Integration & Test																																
P-3 Critical Obsolesence Program Kits & Installation						-																										
P-3 ARCI program and Future Fleet Technology Insertion		<u></u>																														
OTH Wideband																	7															

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:		
						F	ebruary 200	06
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EI	EMENT			PROJECT NU	MBER AND N	AME	
BA-5	0604221N, P-	3 MODERNIZA	TION PROGR	AM	1152, P-3 SEI	NSOR INTEGR	ATION	
Schedule Profile	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
EER Multi-Static Active Sensor System Support	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	
EER Multi-Static Fleet Technology Insertion	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	
P-3 Critical Obsolescence Program (COP) Test/Integration	1Q-4Q	1Q-4Q						
P-3 Critical Obsolescence Prog. APN Procurement	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	
P-3 ARCI and Future Fleet Technology Insertion	2Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	
P-3 OTH Wideband			1Q-4Q	1Q-4Q				
					ļ			

	EXHIBIT R-2a, RDT&E Project Justification											
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /	MBER AND N E LIFE MANA	February 2006 AME GEMENT PROGRAM										
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011					
3016 FATIGUE LIFE MANAGEMENT PROGRAM	2.120	2.968	2.103	2.145	2.150	2.220	2.294					
RDT&E Articles Qty												

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Fatigue Life Management Program is required to manage P-3/EP-3 inventory fatigue life and includes ongoing structural analysis, analyzing emergent structural issues, conducting engineering studies, assessing Fleet impact, and applying new technologies such as Non-Destructive Inspection (NDI) techniques.

	EXHIBI	IT R-2a, RDT&I	E Project Justific	ation		DATE:
						February 2006
APPROPRIATION/BUDGET ACTIVITY		PROGRAM E	LEMENT NUME	BER AND NAME	PROJECT NUMBER AN	D NAME
RDT&E, N /	BA 5	0604221N, P	-3 MODERNIZA	TION PROGRAM	3016, FATIGUE LIFE MA	NAGEMENT PROGRAM
B. ACCOMPLISHMENTS / PLANNED PROGRAM:		*				
	FY 2005	FY 2006	FY 2007			
Accomplishments / Effort / Sub-total Cost	2.120	0 2.968	2.103			
RDT&E Articles Qty						
Fatigue Life Management Program: Manage P-3/E	ED-3 inventory fatigue life	o including cond	ducting etructural	analysis analyzing structural	Liegues conducting anginogring studies	accepting Floot impact
Research, test and apply new Fatigue Inspection to	•					
						_

	EXHIBI	T R-2a, RDT&E I	Project Justification		DATE: February 2006
APPROPRIATION/BUDGET ACTIVITY		PROGRAM EL	EMENT NUMBER AND NAME	PROJECT NUMBER AND N	
RDT&E, N /	BA 5	0604221N, P-3	MODERNIZATION PROGRAM	3016, FATIGUE LIFE MANA	GEMENT PROGRAM
C. PROGRAM CHANGE SUMMARY					
O. I ROOKAW OF AROLL SOMMARY					
Funding:	FY 2005	FY 2006	FY 2007		
Previous President's Budget:	2.954	3.014	2.030		
Current BES / President's Budget:	2.120	2.968	2.103		
Total Adjustments	-0.834	-0.046	0.073		
Summary of Adjustments Congressional Reductions Congressional Rescissions Congressional Undistributed Reductions	-0.058	-0.032			
Congressional Increases		0.044	2.224		
Economic Assumptions		-0.014	0.084		
Miscellaneous Adjustments	-0.775		-0.011		
Si	ubtotal -0.834	-0.046	0.073		
Schedule: Not Applicable					
Technical: Not Applicable					

	EXHIBI	ΓR-2a, RDT&E	Project Justifi	cation				DATE:	
			-					February 2	2006
APPROPRIATION/BUDGET ACTIVITY		PROGRAM EI	LEMENT NUM	BER AND NAM	ΛE		PROJECT NUMBER AND	NAME	
RDT&E, N /	BA 5	0604221N, P-3	3 MODERNIZA	ATION PROGR	AM		3016, FATIGUE LIFE MAN	NAGEMENT PROGRAM	
D. OTHER PROGRAM FUNDING SUMMARY:	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete Total Co	ost

E. ACQUISITION STRATEGY:

The Fatigue Life Management Program leverages off of prior work done under P-3 SLAP (2451). The ASUW Improvement Program (AIP) ORD 355-88-94 was approved 30 March 94. PMP #0526 Ser 902D1/6U324405 was approved on 6 Feb 1986. Navy Decision Coordination Paper W-0484-AS was signed 23 Jun 1984. Work will be performed by LMAS and other industry participants along with the NAVAIR Structural Engineering Dept, AIR-4.3. This program supports the 7 June 2003 CNO approved P-3/EP-3 Sustainment Bridge to MMA.

Exhibit R-2a, RDTEN Project Justification (Exhibit R-2a, Page 12 of 25)

									DATE:			
Exhibit R-3 Cost Analysis (page 1)										Februa	ry 2006	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT				PROJECT N	-					
RDT&E, N /	BA 5	0604221N, P-3 MODERNIZATION PROGRAM	1			3016, FATIO	GUE LIFE MA	ANAGEMEN	T PROGRAM	И		
	Contract											Target
	Method &		Total PY s	FY 2005	FY 2005	FY 2006	FY 2006	FY 2007	FY 2007	Cost to		Value of
Cost Categories	Type	Performing Activity & Location	Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Complete	Total Cost	Contract
PRODUCT DEVELOPMENT										-		
SYSTEMS ENGINEERING -LOCKHEED	C-CPIF	LOCKHEED MARTIN CORPORATION, MARIE		.401	1/4/2005	2.268	1/4/2006	1.403	1/4/2007	6.009	10.081	10.081
SUBTOTAL PRODUCT DEVELOPMENT				.401		2.268		1.403		6.009	10.081	
Remarks:												
SUPPORT		T							1			
SUBTOTAL SUPPORT												
Remarks:												
TEST & EVALUATION												
SUBTOTAL TEST & EVALUATION												
Remarks:												
MANAGEMENT												
Government Eng Sup	WX	NAWCAD, PATUXENT RIVER MD		1.719	12/30/2004	.700	12/5/2005	.700	12/31/2006	2.800	5.919	
SUBTOTAL MANAGEMENT				1.719		.700		.700		2.800	5.919	
Remarks:												
Total Cost				2.120		2.968		2.103		8.809	16.000	
Remarks:												

	Profile																								DATE		F	ebrua	ary 20	06		
PPROPRIATION/BUDGET														R AND		1E									D NAM							
RDT&E, N /	BA-5								06042			Modern	nization	Progr							3016,			FE MA	ANAGE			GRAM				
Fiscal Year		200)4			20	05			20	06			20	07			20	800			20	09			20	10			201	1	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	
nventory Fatigue Life Ianagement/Sustainment						_																										,

Exhibit R-4a, Schedule Detail						DATE:		
Exhibit it 4a, Goridadio Botali							February 20	06
APPROPRIATION/BUDGET ACTIVITY BA-5	PROGRAM E 0604221N, P-	PROJECT NU 3016, FATIGU	MBER AND N	AME GEMENT PRO				
Schedule Profile	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
nventory Fatigue Life Management/Sustainment	2Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	
								<u> </u>

	EXHIBIT	「R-2a, RDT&E	Project Justifi		DATE:					
						February 2006				
APPROPRIATION/BUDGET ACTIVITY		PROGRAM EI	LEMENT NUM	BER AND NAM	1E		PROJECT NU	IMBER AND N	AME	
RDT&E, N /	BA 5	0604221N, P-	3 MODERNIZA	ATION PROGR	AM		9368, ALR-95	SEI NETWOR	KING PROGRAM	
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011			
9368 ALR-95 SEI NETWORKING PROGRAM	2.898									
RDT&E Articles Qty										
		•					-			

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The U.S. Navy P-3C "Orion" is increasingly being tasked to conduct long-endurance standoff maritime surveillance operations. In support of these missions, the P-3C is being upgraded with the Anti-Surface Warfare Improvement Program (AIP). AIP incorporates a number of sensor system additions to the aircraft. Among these enhancements are a SAR/ISAR radar for high resolution target identification, a long range electro-optical surveillance system, communications and survivability enhancements and the new ALR-95 electronic support measures (ESM) system. Phased Capability Upgrade (PCU), encompasses improvements to the aircraft including Link 16, Global Command and Control System-Maritime (GCCS-M), Integrated Tactical Picture (ITP) Precision Targeting Workstation (PTW), Architecture Upgrade, ALR 95 Geo-Location, ALR 95 Networking, and Tactical Common Data Link (TCDL). PCU will provide sensor and C4I modernization which will enhance the Carrier Strike Group/ Expeditionary Strike Group (CSG/ESG) integration and a bridge to the Multi-Mission Maritime Aircraft (MMA) architecture. The new ESM System includes Specific Emitter Identification (SEI) capability that permits the P-3 to passively detect, identify and track high interest targets at extremely distant ranges. Currently, the P-3 shares intelligence associated with SEI contacts only with ground-based Tactical Support Center. There is an urgent fleet requirement to ensure the P-3 can connect with other fleet and ISR platforms to exchange SEI contact information in real time. The FY05 Congressional Add of \$1.5M provides ALR-95 electronic support measures (ESM) system specific emitter identification (SEI) networking and performance enhancement upgrade. The FY05 Congressional Add of \$1.5M for the ALR-95 RFD will upgrade the Radio Frequency Distribution system of the ALR-95 with fiber optic cable to reduce losses and improve performance.

B. ACCOMPLISHMENTS / PLANNED PROGRAM: FY 2005		EXHIBIT	R-2a, RDT	&E Project Justi	ification	DATE:	
BA 5 0604221N, P-3 MODERNIZATION PROGRAM 3. ACCOMPLISHMENTS / PLANNED PROGRAM: FY 2005 FY 2006 FY 2007 Accomplishments / Effort / Sub-total Cost 2.898 The SEI system as deployed is not equipped to handle the large increase of high interest targets that have resulted from the wide-ranging war on terrorism. These shortcomings can be addressed wire upgrades to the system. The system will be upgraded to conform to the Nawy's standard tactical message format. In addition, upgraded CPU cards and SEI card sets will be selected and tested to change the significantly the ability to handle many targets in a single area. The FY05 Congressional Add of \$1.5M provides ALR-95 electronic support measures (ESM)system specific emitter identification (SE networking and perforamance enhancement upgrade. The FY-05 Congressional Add for the ALR-95 RFD will upgrade the Radio Frequency Distribution system of the ALR-95 with fibre optic cable to respect to the system.				•		February 20	06
B. ACCOMPLISHMENTS / PLANNED PROGRAM: FY 2005	PPROPRIATION/BUDGET ACTIVITY		PROGRAM	ELEMENT NU	MBER AND NAME	PROJECT NUMBER AND NAME	
Accomplishments / Effort / Sub-total Cost RDT&E Articles Qty The SEI system as deployed is not equipped to handle the large increase of high interest targets that have resulted from the wide-ranging war on terrorism. These shortcomings can be addressed will upgrades to the system. The system will be upgraded to conform to the Nawy's standard tactical message format. In addition, upgraded CPU cards and SEI card sets will be selected and tested to change in significantly the ability to handle many targets in a single area. The FY05 Congressional Add of \$1.5M provides ALR-95 electronic support measures (ESM)system specific emitter identification (SE networking and perforamance enhancement upgrade. The FY-05 Congressional Add for the ALR-95 RFD will upgrade the Radio Frequency Distribution system of the ALR-95 with fibre optic cable to respect to the system.	DT&E, N /	BA 5	0604221N,	P-3 MODERNIZ	ZATION PROGRAM	9368, ALR-95 SEI NETWORKING PROGRAM	
Accomplishments / Effort / Sub-total Cost RDT&E Articles Qty The SEI system as deployed is not equipped to handle the large increase of high interest targets that have resulted from the wide-ranging war on terrorism. These shortcomings can be addressed will upgrades to the system. The system will be upgraded to conform to the Nawy's standard tactical message format. In addition, upgraded CPU cards and SEI card sets will be selected and tested to change in significantly the ability to handle many targets in a single area. The FY05 Congressional Add of \$1.5M provides ALR-95 electronic support measures (ESM)system specific emitter identification (SE networking and perforamance enhancement upgrade. The FY-05 Congressional Add for the ALR-95 RFD will upgrade the Radio Frequency Distribution system of the ALR-95 with fibre optic cable to respect to the system.	ACCOMPLISHMENTS / PLANNED PROGRAM:	:				•	
Accomplishments / Effort / Sub-total Cost RDT&E Articles Qty The SEI system as deployed is not equipped to handle the large increase of high interest targets that have resulted from the wide-ranging war on terrorism. These shortcomings can be addressed will upgrades to the system. The system will be upgraded to conform to the Nawy's standard tactical message format. In addition, upgraded CPU cards and SEI card sets will be selected and tested to change in significantly the ability to handle many targets in a single area. The FY05 Congressional Add of \$1.5M provides ALR-95 electronic support measures (ESM)system specific emitter identification (SE networking and perforamance enhancement upgrade. The FY-05 Congressional Add for the ALR-95 RFD will upgrade the Radio Frequency Distribution system of the ALR-95 with fibre optic cable to respect to the system.							
The SEI system as deployed is not equipped to handle the large increase of high interest targets that have resulted from the wide-ranging war on terrorism. These shortcomings can be addressed will upgrades to the system. The system will be upgraded to conform to the Nawy's standard tactical message format. In addition, upgraded CPU cards and SEI card sets will be selected and tested to characteristic significantly the ability to handle many targets in a single area. The FY05 Congressional Add of \$1.5M provides ALR-95 electronic support measures (ESM)system specific emitter identification (SE networking and perforamance enhancement upgrade. The FY-05 Congressional Add for the ALR-95 RFD will upgrade the Radio Frequency Distribution system of the ALR-95 with fibre optic cable to respect to the system.		FY 2005	FY 2006	FY 2007			
The SEI system as deployed is not equipped to handle the large increase of high interest targets that have resulted from the wide-ranging war on terrorism. These shortcomings can be addressed will upgrades to the system. The system will be upgraded to conform to the Nawy's standard tactical message format. In addition, upgraded CPU cards and SEI card sets will be selected and tested to choosing significantly the ability to handle many targets in a single area. The FY05 Congressional Add of \$1.5M provides ALR-95 electronic support measures (ESM)system specific emitter identification (SE networking and perforamance enhancement upgrade. The FY-05 Congressional Add for the ALR-95 RFD will upgrade the Radio Frequency Distribution system of the ALR-95 with fibre optic cable to respect to the system.	ccomplishments / Effort / Sub-total Cost	2.898					
upgrades to the system. The system will be upgraded to conform to the Navy's standard tactical message format. In addition, upgraded CPU cards and SEI card sets will be selected and tested to change significantly the ability to handle many targets in a single area. The FY05 Congressional Add of \$1.5M provides ALR-95 electronic support measures (ESM)system specific emitter identification (SE networking and perforamance enhancement upgrade. The FY-05 Congressional Add for the ALR-95 RFD will upgrade the Radio Frequency Distribution system of the ALR-95 with fibre optic cable to respect to the system.	DT&E Articles Qty						
upgrades to the system. The system will be upgraded to conform to the Nawy's standard tactical message format. In addition, upgraded CPU cards and SEI card sets will be selected and tested to change significantly the ability to handle many targets in a single area. The FY05 Congressional Add of \$1.5M provides ALR-95 electronic support measures (ESM)system specific emitter identification (SE networking and perforamance enhancement upgrade. The FY-05 Congressional Add for the ALR-95 RFD will upgrade the Radio Frequency Distribution system of the ALR-95 with fibre optic cable to respect to the ALR-95 request.							
		grade. The FF 00 Congr			. 0		

	EXH	IIBIT R-2a, RDT&E Project Justification	DATE:
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /	BA 5	PROGRAM ELEMENT NUMBER AND NAME 0604221N, P-3 MODERNIZATION PROGRAM	February 2006 PROJECT NUMBER AND NAME 9368, ALR-95 SEI NETWORKING PROGRAM
C. PROGRAM CHANGE SUMMARY			1
Funding: Previous President's Budget: Current BES / President's Budget: Total Adjustments	2.	5 FY 2006 FY 2007 971 898 073	
Summary of Adjustments Congressional Reductions Congressional Rescissions Congressional Undistributed Reductions Congressional Increases Economic Assumptions Miscellaneous Adjustments	-0.	073	
Subto	tal -0.	073	
Schedule: Not Applicable			
Technical: Not Applicable			

	EXHIB	IT R-2a, RDT&E	Project Justifi	cation				DATE:
ADDDODDIATION/DUDOET ACTIVITY		IDDOODA!!	L ENACNIT NILLIN	IDED AND NA	45		DDO IFOT NILLADED	February 2006
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /	BA 5			IBER AND NAI Ation Progr			PROJECT NUMBER 9368, ALR-95 SEI N	ETWORKING PROGRAM
D. OTHER PROGRAM FUNDING SUMMARY: N/A	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete Total Cost
E. ACQUISITION STRATEGY: Existing Sole Source FFP contract to EDO								

	EXHIBIT	ΓR-2a, RDT&E	Project Justifi	cation					DATE:
									February 2006
APPROPRIATION/BUDGET ACTIVITY		PROGRAM EI	LEMENT NUM	BER AND NAM	ΛE		PROJECT NU	IMBER AND N	AME
RDT&E, N /	BA 5	0604221N, P-	3 MODERNIZA	ATION PROGR	AM		9551, PERSO	NAL DIGITAL	ASSISTANT MAINTENANCE APP
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011		
9551 PERSONAL DIGITAL ASSISTANT MAINTENANCE	.965								
RDT&E Articles Qty									

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The Personal Digital Assistant Maintenance Application Program (PDA MAP) will reduce paper data collection and manual data entry process associated with scheduled maintenance inspections. PDA MAP will improve effiency, increase data collection accuracy, and reduce Naval Aviation Logistics Command Management Information System (NALCOMIS) data entry time.

February 2006 PROPRIATION/BUDGET ACTIVITY BA 5 G604221N, P-3 MODERNIZATION PROGRAM ACCOMPLISHMENTS / PLANNED PROGRAM: FY 2005 FY 2006 FY 2007 Complishments / Effort / Sub-total Cost .965 .965 .965 OT&E Articles Qty The Personal Digital Assistant Maintenance Application Program (PDA MAP) will reduce paper data collection and manual data entry process associated with scheduled maintenance inspections. PDA MAP will improve effiency, increase data collection accuracy, and reduce Naval Aviation Logistics Command Management Information System (NALCOMIS) data entry time.		EXHIBIT	آ R-2a, RDT	&E Project Justi	ification		DATE:
ACCOMPLISHMENTS / PLANNED PROGRAM: FY 2005 FY 2006 FY 2007							February 2006
ACCOMPLISHMENTS / PLANNED PROGRAM: FY 2005	PROPRIATION/BUDGET ACTIVITY		PROGRAM	ELEMENT NU	MBER AND NAME	PROJECT NUMB	ER AND NAME
FY 2005 FY 2006 FY 2007 complishments / Effort / Sub-total Cost .965 DT&E Articles Qty The Personal Digital Assistant Maintenance Application Program (PDA MAP) will reduce paper data collection and manual data entry process associated with scheduled maintenance inspections. PD/	T&E, N /	BA 5	0604221N,	P-3 MODERNIZ	ZATION PROGRAM	9551, PERSONAL	. DIGITAL ASSISTANT MAINTENANCE API
complishments / Effort / Sub-total Cost .965 .965	ACCOMPLISHMENTS / PLANNED PROGRAM:						
complishments / Effort / Sub-total Cost .965							
The Personal Digital Assistant Maintenance Application Program (PDA MAP) will reduce paper data collection and manual data entry process associated with scheduled maintenance inspections. PD/			_	FY 2007			
The Personal Digital Assistant Maintenance Application Program (PDA MAP) will reduce paper data collection and manual data entry process associated with scheduled maintenance inspections. PDA		.965					
	T&E Articles Qty						

	EXHIBI	R-2a, RDT&E Project Justification		DATE:
APPROPRIATION/BUDGET ACTIVITY	D4.5	PROGRAM ELEMENT NUMBER AND I		February 2006 DJECT NUMBER AND NAME
RDT&E, N / C. PROGRAM CHANGE SUMMARY	BA 5	0604221N, P-3 MODERNIZATION PRO	GRAM 955	1, PERSONAL DIGITAL ASSISTANT MAINTENANCE APP
C. FROGRAM CHANGE SOMMARY				
Funding:	FY 2005	FY 2006 FY 2007		
Previous President's Budget:	0.989	0.000 0.000		
Current BES / President's Budget:	0.965	0.000 0.000		
Total Adjustments	-0.024	0.000 0.000		
Summary of Adjustments Congressional Reductions Congressional Rescissions Congressional Undistributed Reductions Congressional Increases Economic Assumptions Miscellaneous Adjustments	-0.024			
Subto	-0.024	0.000 0.000		
Schedule: Not Applicable				
Technical: Not Applicable				

	EXHIBI	T R-2a, RDT&E	Project Justifi	cation				DATE:
							T	February 2006
APPROPRIATION/BUDGET ACTIVITY	D.A. 5			IBER AND NAM			PROJECT NUMBER	
RDT&E, N /	BA 5			ATION PROGR		EV 0040		DIGITAL ASSISTANT MAINTENANCE APP
D. OTHER PROGRAM FUNDING SUMMARY: N/A	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete Total Cost
E ACQUICITION CTDATECY.								
E. ACQUISITION STRATEGY: Sole source contract to Computer Products, Inc for	the engineering and	I manufacturing	development	of the Persona	al Digital Assis	tant Maintena	ance Application.	
:								

EXHIBIT R-2a, RDT&E Project Justification										DATE:		
										February 2006		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EL	ΛE	PROJECT NUMBER AND NAME 9999, CONGRESSIONAL ADDS									
RDT&E, N /	BA 5	0604221N, P-3 MODERNIZATION PROGRAM										
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011					
	F1 2003		F1 2007	F1 2000	F1 2009	F1 2010	F1 2011		4			
9999 CONGRESSIONAL ADDS		3.350							<u>↓</u>			
RDT&E Articles Qty												
A. MISSION DESCRIPTION AND BUDGET ITEM JU	USTIFICATION:											
Congressional Adds												

UNCLASSIFIED

R-1 Shopping List Item No 89

Exhibit R-2a, RDTEN Project Justification (Exhibit R-2a, Page 24 of 25)

	EXHIB	IT R-2a, RDT&E	Project Justifi	cation		DATE:
						February 2006
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /	BA 5			MBER AND NAME Zation Program	PROJECT NUMBER AND 9999, CONGRESSIONAL	
D. ACCOMPLICUMENTS / DI ANNIED DDOCDAM.						
B. ACCOMPLISHMENTS / PLANNED PROGRAM: 9368	FY 2005	FY 2006	FY 2007	1		
Accomplishments / Effort / Sub-total Cost	1 1 2003	1.35		+		
RDT&E Articles Qty						
ALR-95 ESM SYSTEMS SEI NETWORKING AND PERFOR	MANCE UPGR	ADE				
The SEI system as deployed is not equipped to handle the last system. The system will be upgraded to conform to the Navy many targets in a single area.						
9551	FY 2005	FY 2006	FY 2007			
Accomplishments / Effort / Sub-total Cost		1.00				
RDT&E Articles Qty						
The Personal Digital Assistant Maintenance Application Prog effiency, increase data collection accuracy, and reduce Nava						ce inspections. PDA MAP will improve
9772 Accomplishments / Effort / Sub-total Cost	FY 2005	FY 2006	FY 2007			
RDT&E Articles Qty						
P-3C HIGH RESOLUTION DIGITAL RECORDER Engineering, development, and test and evaluation of the AIN are capable of recording.	//S EO/IR Senso	or System Recor	der. The sens	or systems are capable of provi	ding the warfighter with higher quality real-	-time intelligence. The current recorders