CLASSIFICATION:

UNCLASSIFIED

EXHIBIT R-2, RDT&E Budget Item Justification							DATE:	
							Februa	ry 2005
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMEN		•	
RESEARCH DEVELOPMENT TEST & EVALUATI	ON, NAVY /	BA-5			0604221N P-3 N	Modernization Prog	ram	
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total PE Cost	14.257	13.038	7.401	5.245	5.343	5.412	5.540	5.655
1152 P-3 Sensor Integration	7.097	6.124	4.387	3.215	3.294	3.350	3.409	3.455
3016 Fatigue Life Management Program		2.954	3.014	2.030	2.049	2.062	2.131	2.200
9368 ALR-95 SEI Networking Program	1.250	2.971						
9369 P-3 AIP Phase Capability Upgrade	5.910							
9551 Personal Digital Assistant Maintenance		0.989						

A. RDT&E 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. Develope interface control for ASW weapon improvement solutions.

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 fibre optic cable to reduce losses and improve performance.

P-3 AIP Phased Capability Upgrade will integrate LINK-16 into P-3C AIP aircraft.

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.

R-1 SHOPPING LIST - Item No.

89

UNCLASSIFIED

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

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							Februa	ry 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEM	ENT NUMBER AND	NAME		PROJECT NUMBE	ER AND NAME		
RDT&E, N / BA-5	0604221N P-3 M	odernization Progra	am		1152 P-3 Senso	r Integration		
COST (\$ in Millions)	FY2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	7.097	6.124	4.387	3.215	3.294	3.350	3.409	3.455
RDT&E Articles Qty								

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

RDT&E 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. Develope interface control for ASW weapon improvement solutions.

R-1 SHOPPING LIST - Item No.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	IAME
RDT&E, N / BA-5	0604221N P-3 Modernization Program	1152 P-3 Sensor Integrati	ion
		•	

B. Accomplishments/Planned Program

	FY04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	2.597	1.624	4.387	3.215
RDT&E Articles Quantity				

System engineering support for integration of EER family of Multi-Static active sensor system. Integrates advanced and future ASW and ASuW sensors, weapons systems, and supporting technology into legacy P-3C systems and phased capabilities upgrades. Advances Air ARCI efforts by replacing legacy MIL-SPEC UYS-1 with increasingly open, COTS-based architecture. Expands 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. Specifically the program integrates and tests 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.

	FY04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	4.500	4.500		
RDT&E Articles Quantity				

P-3 Critical Obsolescence Program (COP): Integration, prototyping, testing, aircraft support, logistics, contracting, engineering, and program management of the five COP systems (HF Radio, Data Link, Infrared Detection, Tactical ASW Auto-Pilot, and Inter Communications).

R-1 SHOPPING LIST - Item No.

CLASSIFICATION:

(U) Technical:

Not Applicable

OPRIATION/BUDGET ACTIVITY	PROGRAM	ELEMENT NUMBER	AND NAME	F	ROJECT NUMBER	AND NAME
T&E, N / BA-5	0604221N	P-3 Modernization P	rogram	1	152 P-3 Sensor Int	egration
C. PROGRAM CHANGE SUMMARY:						
(U) Funding:		FY 2004	FY 2005	FY 2006	FY 2007	
Previous President's Budget:		7.225	6.566	2.252	2.287	
Current BES/President's Budget		7.097	6.124	4.387	3.215	
Total Adjustments		-0.128	-0.442	2.135	0.928	
Summary of Adjustments						
Congressional program reductions						
Congressional undistributed reductions			-0.058			
Congressional rescissions						
SBIR/STTR Transfer		-0.136				
Other Adjustments			-0.384	2.049	0.882	
Economic Assumptions				0.086	0.046	
Reprogrammings		0.008				
Congressional Increases						
Subtotal		-0.128	-0.442	2.135	0.928	

R-1 SHOPPING LIST - Item No. 89

Exhibit R-2, RDTEN Budget Item Justification (Exhibit R-2, page 4 of 25)

CLASSIFICATION:

EXHIBIT R-2a, RDT&E I	Project Justification							DATE:				
										Februa	ary 2005	
APPROPRIATION/BUDGET	ACTIVITY	PROGRAM EL	EMENT NUME	BER AND NAM	E	PROJECT NUI	MBER AND NA	ME				
RDT&E, N /	BA-5	0604221N F	P-3 Modernizati	ion Program		1152 P-3 Sen	sor Integration					
D. OTHER PROGRAI	M FUNDING SUMMARY:	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To <u>Complete</u>	Total <u>Cost</u>	
BLI 0538 P-3 Criti (OSIP 04-04)	cal Obsolescence Program (COP)	14.502	22.904	43.712	43.696	42.141	46.168	39.776	35.653	256.270	544.822	

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.

CLASSIFICATION:

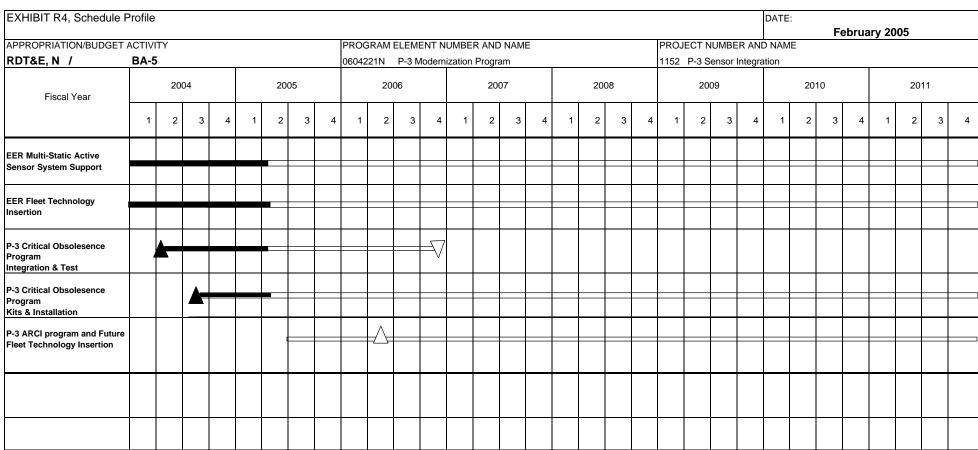
Fyhihit D 2 Coot Anglysis (nogs 1)									DATE:		February (2005	
Exhibit R-3 Cost Analysis (page 1) APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT	NII IMDED /	NID NAME		February 2	2005	
RDT&E, N / BA-5			0604221N P-3 Moderi		am			Sensor Inte					
RDTGE, N 7 DA 0	0		000+2211 1 1 -3 Modell			EV 05	1102 1-0		T	E) (07			T
	Contract Method &			Total Pys	FY 05	FY 05 Award	FY 06	FY 06 Award	FY 07	FY 07 Award	Cost to	Total	Target Value
Cost Categories		Performing Ac	tivity & Location		Cost	Date		Date	Cost	Date		Cost	of Contract
Primary Hardware Development (EER)	C/FP	Raytheon, McI	•	6.425							· ·	6.425	
Systems Engineering	Various	Various	- 7 /	30.440		01/05	2.200	01/06	2.000	01/07	Continuing	Continuing	
Systems Engineering	CPFF	1	tin, Manassas, Va.		1.000	1						1.000	1
- System Engineering			,			0							
Subtotal Product Development				36.865	1.050		2.200		2.000		Continuing	Continuing	
Remarks:													
Software Development	C/FP	Raytheon, McI	Kinney, Tx	5.781								5.781	5.781
Software Development	C/FP	Raytheon, McI	Kinney, Tx	1.998								1.998	1.998
Software Development	SS/FP	LMNESS, Ega		14.561								14.561	14.561
Software Development	WX	NAWCAD, Pa		2.897	0.600	01/05	0.500	01/06	0.515	01/07	Continuing	Continuing	
Subtotal Support				25.237	0.600		0.500		0.515		Continuing	Continuing	
Remarks:		l		20.201	0.000	1	0.500		0.515		Continuing	Continuing	
Remarks.													

CLASSIFICATION:

Fuhihit D. 2 Coot Arabasia (2)							DATE:		Fab	2005	
Exhibit R-3 Cost Analysis (page APPROPRIATION/BUDGET ACTIVITY	2)	PROGRAM ELEMEI	UT.			PROJECT	NIIMDED A	NID NAME		February 2	2005	
RDT&E, N / BA-5	ī	0604221N P-3 Mod		ram		1152 P-3						
NOTAL, N 7 DA 0	Contract	000422114 1 -3 10100	Total	lani	FY 05		FY 06	gration	FY 07			
	Method &			FY 05	Award		Award	FY 07	Award	Cost to	Total	Target Valu
Cost Categories	Type	Performing Activity & Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
Test Support	WX	NAWCAD, Pax River, MD	2.241	2.255	01/05	0.650	01/06	0.300	01/07	Continuing	Continuing	
Subtotal T&E			2.241	2.255		0.650	I	0.300		Continuing	Continuing	
Remarks:												
Oncommont Facility of the October 1	WA	NAWCAD Day Bires MD	40.000	Τ			Ī	1	Ī			<u> </u>
Government Engineering Support	WX	NAWCAD, Pax River, MD	13.060		04/05	0.400	04/00	0.000	04/07	0 11 1	0 11 1	
Program Management Support	WX	NAWCAD, Pax River, MD	0.794			0.400		0.200		Continuing		
Government Technical Support	WX	NAWCAD, Pax River, MD	0.366		01/05	0.450	01/06	0.100	01/07	Continuing	Continuing	
Government Technical Support	MIPR	MITRE, McLean, Va.		0.070								
_ogistics Support	WX	NAWCAD, Pax River, MD	0.370	0.664	01/05	0.187	01/06	0.100	01/07	Continuing	Continuing	
SBIR												
Subtotal Management			14.590	2.219		1.037		0.400		Continuing	Continuing	
Remarks:												
Total Cost			78.933	6.124		4.387		3.215		Continuing	Continuing	
Remarks:												
			R-1 SH∩	PPING LIST	Γ - Item No		89					

Exhibit R-2, RDTEN Budget Item Justification (Exhibit R-2, page 7 of 25)

CLASSIFICATION:



CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:			
						F	ebruary 20	05	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT			PROJECT NU	MBER AND N	AME		
RDT&E, N / BA-5	0604221N	P-3 Modernizat	ion Program		1152 P-3 Sensor Integration				
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
EER Multi-Static Active Sesnor System Support	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q					
EER Multi-Static Fleet Technology Insertion P-3 Critical Obsolescence Program (COP) Test/Integration P-3 Critical Obsolescence Prog. Commence APN Procurement	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q					
P-3 Critical Obsolescence Program (COP) Test/Integration	2Q-4Q	1Q-4Q	1Q-4Q						
P-3 Critical Obsolescence Prog. Commence APN Procurement	3Q								
Commence P-3 ARCI and Future Fleet Technology Insertion			2Q						
						ĺ	ĺ		

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							Februa	ry 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEM	ENT NUMBER AND	NAME		PROJECT NUMBE	R AND NAME		
RDT&E, N / BA-5	0604221N P-3 M	lodernization Progra	am		3016 Fatigue Lif	e Management Pro	gram	
COST (\$ in Millions)	FY2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost		2.954	3.014	2.030	2.049	2.062	2.131	2.200
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.

R-1 SHOPPING LIST - Item No.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	IAME
RDT&E, N / BA-5	0604221N P-3 Modernization Program	3016 Fatigue Life Manage	ement Program

B. Accomplishments/Planned Program

	FY04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost		2.954	3.014	2.030
RDT&E Articles Quantity				

Fatigue Life Management Program : Manage P-3/EP-3 inventory fatigue life including conducting structural analysis, analyzing structural issues, conducting engineering studies, assessing Fleet impact. Research, test and apply new Fatigue Inspection techniques to the P-3/EP-3 Fleet.

R-1 SHOPPING LIST - Item No.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification						DATE:	
							February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMEN	IT NUMBER A	AND NAME		PROJECT NUM	BER AND NAME	
RDT&E, N / BA-5	0604221N P-3 Mod	dernization Pr	rogram		3016 Fatigue	Life Management Pr	rogram
C. PROGRAM CHANGE SUMMARY:							
(U) Funding: Previous President's Budget: Current BES/President's Budget Total Adjustments		FY2004	FY 2005 2.988 <u>2.954</u> -0.034	FY 2006 2.992 <u>3.014</u> 0.022	FY 2007 2.994 <u>2.030</u> -0.964		
Summary of Adjustments Congressional program reductions Congressional undistributed reductions Congressional rescissions SBIR/STTR Transfer			-0.030				
Other Adjustments Economic Assumptions Reprogrammings Congressional Increases			-0.004	-0.007 0.029	-1.010 0.046		
Subtotal			-0.034	0.022	-0.964		
Schedule:							
Not Applicable							
Technical:							
Not Applicable							
			NO LIOT II		00		

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification									February 200	5
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT NUM	BER AND NAM	1E	PROJECT NU	IMBER AND N	AME			
RDT&E, N / BA-5	0604221N	P-3 Modernizat	ion Program		3016 Fatigu	ie Life Manage	ment Program			
D. OTHER PROGRAM FUNDING SUMMAR <u>Line Item No. & Name</u> N/A	FY 2004	FY 2005	<u>FY 2006</u>	FY 2007	FY 2008	FY 2009	FY 2010	<u>FY 2011</u>	To <u>Complete</u>	Total <u>Cost</u>

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.

CLASSIFICATION:

								DATE:				
Exhibit R-3 Cost Analysis (page 1)										February :	2005	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT						AND NAME				
RDT&E, N / BA-5	1	0604221N P-3 Modernization	on Program			3016 Fa		anagement		_	•	_
	Contract		Total		FY 05		FY 06		FY 07			
Cost Categories	Method & Type	Performing Activity & Location	Pys Cost	FY 05 Cost	Award Date	FY 06 Cost	Award Date	FY 07 Cost	Award Date	Cost to Complete	Total Cost	Target Value of Contract
		LMAS, Marietta, GA	Cost	2.254		2.314		1.330		5.642		
Systems Engineering	C/CPIF	LIMAS, Marietta, GA		2.254	01/05	2.314	01/06	1.330	01/07	5.042	11.540	11.540
Subtotal Product Development Remarks:			0.000	2.254		2.314		1.330		5.642	11.540	11.540
			<u> </u>								Τ	
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												

CLASSIFICATION:

									D				
Exhibit R-3 Cost A	nalysis (page 2)								DATE:		February 2	2005	
APPROPRIATION/BUI	OGET ACTIVITY		PROGRAM ELEMEN	Т			PROJECT	NUMBER A	ND NAME		1 oblidaly 2		
RDT&E, N /	BA-5		0604221N P-3 Mode		oram			tigue Life Ma		Program			
Cost Categories	Contract Method & Type		ivity & Location	Total Pys Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
_													
Subtotal T&E					0.000)	0.000)	0.000)	0.000	0.000	0.000
Govt Engineering Supp	oort WX	NAWCAD, Pax	River		0.700	12/04	0.700	12/05	0.700	12/06	2.800	4.900	4.900
												<u> </u>	
Subtotal Managemen Remarks:	t			0.000	0.700)	0.700)	0.700)	2.800	4.900	4.900
remarks.													
Total Cost				0.000	0 2.954		3.014	1	2.030		8.442	16.440	16.440
Remarks:													

CLASSIFICATION:

EXHIBIT R4, Schedule	Profile																								DATE	i:	F	ebrua	rv 20	105		
APPROPRIATION/BUDGET	ACTIVIT	Y							PROG	RAM	ELEM	ENT N	UMBE	R AND	NAM	E					PROJ	ECT N	UMBE	R AN	D NAM	1E		CDIGE	y 20	00		
RDT&E, N /	BA-	5							06042	21N	P-3 N	/lodern	izatior	Progr	am						3016	Fatig	jue Life	e Man	ageme	nt Pro	gram					
Fiscal Year		20	004			20	05			20	06			20	07			20	08			200)9			20	10			20 ⁻	11	
	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	2
Inventory Fatigue Life Management/Sustainment						\triangle																										5

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:		
							February 20	05
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E				PROJECT NU			
RDT&E, N / BA-5		P-3 Modernizati			3016 Fatigu			
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
ventory Fatigue Life Management/Sustainment		2Q-4Q	1Q-4Q	1Q-4Q				

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							Februa	ry 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMI	ENT NUMBER AND	NAME		PROJECT NUMBE	ER AND NAME		
RDT&E, N / BA-5	0604221N P-3 M	odernization Progra	am		9368 ALR-95 SEI	Networking Progra	m	
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	1.250	2.971						
RDT&E Articles Qty								

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The 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 FY04 Congressional Add provided the connectivity to allow the ALR-95 to conform to the Navy's standard tactical message format. The FY05 Congressional Add of \$1.5M will continue this effort.

The FY05 Congressional Add of \$1.5M for the ALR-95 RFD will upgrade the Radio Frequency Distribution system of the ALR-95 with fibre optic cable to reduce losses and improve performance.

R-1 SHOPPING LIST - Item No.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:	
				February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	İAME	
RDT&E, N / BA-5	0604221N P-3 Modernization Program	9368 ALR-95 SEI Networkir	ng Program	

B. Accomplishments/Planned Program

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	1.250	2.971		
RDT&E Articles Quantity				

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 with 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 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 reduce losses and improve performance.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification						DATE		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM	ELEMENT NUMBER	AND NAME		PROJECT NUI	 MBER AND NAME	February 2005	
	0604221N	P-3 Modernization F				5 SEI Networking Pro	ogram	
C. PROGRAM CHANGE SUMMARY:	!							
Cunding.		FV 04	EV 05	F)/ 00	EV 07			
Funding: Previous President's Budget:		FY 04 1.286	FY 05 0.000	FY 06	FY 07			
Current BES/President's Budget		1.250	2.971					
Total Adjustments		-0.036	2.971					
Summary of Adjustments								
Congressional program reductions								
Congressional undistributed reductions			-0.028					
Congressional rescissions								
SBIR/STTR Transfer		-0.035						
Other Adjustments			-0.001					
Economic Assumptions		-0.001						
Reprogrammings								
Congressional increases			3.000					
Subtotal		-0.036	2.971					
Schedule:								
Not Applicable								
Technical:								
Not Applicable								
		R-1 SHOPP	INC LICT '	taua Nia	89			

CLASSIFICATION:

ROPRIATION/BUDGE	T ACTIVITY		PROGRAM E	LEMENT NUM	BER AND NAM	ИΕ	PROJECT NU	MBER AND N	AME	February 200)5
T&E, N /	BA-5		0604221N	P-3 Modernizat	ion Program		9368 ALR-95	SEI Networkin	g Program		
D. OTHER PROGR	AM FUNDING SUMMARY:									То	Total
<u>Line Item No. & N</u> N/A	<u>ame</u>	<u>FY 2004</u>	FY 2005	FY 2006	<u>FY 2007</u>	FY 2008	FY 2009	FY 2010	FY 2011	<u>Complete</u>	Cost
E. ACQUISITION STR	RATEGY:										
Existing Sole S	ource FFP contract to EDO										

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification	DATE:							
							Februa	ry 2005
APPROPRIATION/BUDGET ACTIVITY								
RDT&E, N / BA-5	0604221N P-3 Mo	dernization Progra	m		9551 - Personal Digital Assistant Maintenance Application			
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	0.989							
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 efficiency, increase data collection accuracy, and reduce Naval Aviation Logistics Command Management Information System (NALCOMIS) data entry time.

R-1 SHOPPING LIST - Item No.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justifica	ation		DATE:
			February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	ÎAME
RDT&E, N / BA-5	0604221N P-3 Modernization Program	9551 - Personal Digital Assis	stant Maintenance Application

B. Accomplishments/Planned Program

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost		0.989		
RDT&E Articles Quantity				

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.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification						DATE:					
						February 2005					
PROGRAM ELEM	PROGRAM ELEMENT NUMBER AND NAME				ER AND NAME						
0604221N P-3 Mo	0604221N P-3 Modernization Program			9551 - Personal D	igital Assistant Maintena	ance Application					
	FY 04	FY 05 0.000 0.989	FY 06	FY 07							
_	0.000	0.989	0.000	0.000							
ons uctions		-0.011									
		1 000									
_	0.000	0.989	0.000	0.000							
	0604221N P-3 Mo	0604221N P-3 Modernization Prog	P-3 Modernization Program	P-3 Modernization Program	P-3 Modernization Program 9551 - Personal D	PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER AND NAME 9551 - Personal Digital Assistant Maintena 9551					

CLASSIFICATION:

EXHIBIT R-2a, RDT&E P	roject Justification								DATE:			
							February 2005					
APPROPRIATION/BUDGET A			PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME					
RDT&E, N /	BA-5		0604221N P-	0604221N P-3 Modernization Program				9551 - Personal Digital Assistant Maintenance Application				
D. OTHER PROGRAM	FUNDING SUMMARY:									_	T	
Line Item No. & Name	<u> </u>	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To <u>Complete</u>	Total <u>Cost</u>	
Not Applicable												
E. ACQUISITION STRAT	EGY:											
Sole source contract	ct to Computer Products, I	Inc for the engi	neering and ma	anufacturing de	velopment of t	he Personal [Digital Assistant	Maintenance A	Application.			