CLASSIFICATION:

UNCLASSIFIED

EXHIBIT R-2, RDT&E Budget Item Justification						DATE:	
						Februa	ry 2004
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMEN	CLATURE	•	
RESEARCH DEVELOPMENT TEST & EVALUATION, NA	VY / BA-5	ľ		0604221N P-3 N	Modernization Prog	ram	
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Total PE Cost	0.887	14.593	9.554	5.244	5.281	5.332	5.382
H1152 P-3 Sensor Integration	0.887	7.225	6.566	2.252	2.287	2.334	2.380
H3016 Fatigue Life Management Program			2.988	2.992	2.994	2.998	3.002
H9368 ALR-95 SEI Networking Program		1.286					
H9369 P-3 AIP Phase Capability Upgrade		6.082					

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This program provides upgrades to P-3C aircraft systems to enhance surface and subsurface tracking and classification; attack capabilities including Specific Emmitter Identification (SEI); improved APS-137 radar tracking and upgrades; and P-3 Critical Obsolescence Program. The P-3C Sensor Integration project provides for the technology insertion support necessary to integrate advanced sensors into embedded P-3C Update III computer systems. Also, P-3 Sensor Integration will expand software technology of P-3 systems to integrate additional sensors, tactical decision aids, and color capabilities to improve aircrew tactical proficiency and awareness. Sensor Integration is a continuous effort to integrate and test newly evolving ASW technologies under the "Extended Echo Ranging (EER) family of Mulit-Static active sensor systems".

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.

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

R-1 SHOPPING LIST - Item No.

89

Exhibit R-2, RDTEN Budget Item Justification (Exhibit R-2, page 1 of 33)

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							Februa	ry 2004
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		H1152 P-3 Sens	or Integration		
COST (\$ in Millions)		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Project Cost		0.887	7.225	6.566	2.252	2.287	2.334	2.380
RDT&E Articles Qty								

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This program provides upgrades to P-3C aircraft systems to enhance surface and subsurface tracking and classification; attack capabilities including Specific Emitter Identification (SEI); improved APS-137 radar tracking and upgrades; and P-3 Critical Obsolescence Program. The P-3C Sensor Integration project provides for the technology insertion support necessary to integrate advanced sensors into embedded P-3C Update III computer systems. Also, P-3 Sensor Integration will expand software technology of P-3 systems to integrate additional sensors, tactical decision aids, and color capabilities to improve aircrew tactical proficiency and awareness. Sensor Integration is a continuous effort to integrate and test newly evolving ASW technologoes under the "Extended Echo Ranging (EER) family of Multi-Static active sensor systems".

CLASSIFICATION:

PROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBE	FR AND NAME	PROJECT NUMBER AND N	Februar	<i>y</i> 2004
T&E, N / BA-5	0604221N P-3 Modernization	n Program	H1152 P-3 Sensor Integr	ation	
D. Accomplishments/Diamed Dressen					
B. Accomplishments/Planned Program					
		FY 03	FY 04	FY 05	
A a a a mana li a la mana a a ta /Effa mt/C la ta ta l. Ca a t		0.887	2.725	1.068	
IACCOMDIISNMENTS/ETTOR/SUDTOTAL COST					
Accomplishments/Effort/Subtotal Cost RDT&F Articles Quantity					
RDT&E Articles Quantity System engineering support for integration of	f EER family of Multi-Static active sensor	r system.			
RDT&E Articles Quantity	f EER family of Multi-Static active sensor		- FVO4	Divos	
RDT&E Articles Quantity System engineering support for integration of	f EER family of Multi-Static active sensor	r system. FY 03	FY 04	FY 05	
RDT&E Articles Quantity	f EER family of Multi-Static active sensor		FY 04 4.500	FY 05 5.498	

R-1 SHOPPING LIST - Item No.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification					DATE:	
						February 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM	ELEMENT NUMBER AND NAME		PROJECT NUMB	ER AND NAME	
RDT&E, N / BA-5	0604221N	P-3 Modernization Program		H1152 P-3 Sens	sor Integration	
(U) C. PROGRAM CHANGE SUMMARY:						
(U) Funding: Previous President's Budget: Current BES/President's Budget Total Adjustments		FY 2003 2.297 0.887 -1.410	FY 2004 7.306 7.225 -0.081	FY 2005 6.785 6.566 -0.219		
Summary of Adjustments Congressional program reductions Congressional undistributed reductions Congressional rescissions			-0.081			
SBIR/STTR Transfer Economic Assumptions Reprogrammings Other Navy/OSD Adjustments		-0.052 -1.358		-0.015		
Reprioritization of requirements Congressional Increases				-0.204		
Subtotal		-1.410	-0.081	-0.219		
(U) Schedule: The following milestones were reported incorred Swalas/Tamda. They are related to the ASW S The milestones now reflect this integrated supp	ensor & proc	essing development efforts. The P-3	Sensor integ	ration takes the d	eveloped technologies	and integrates them into the P-3.
(U) Technical: Not Applicable						
		D 1 SHODDING LIST II		80		

CLASSIFICATION:

									Februa	ry 2004
PPROPRIATION/BUDGET A	ACTIVITY	PROGRAM E	LEMENT NUME	BER AND NAM	E	PROJECT NUI	MBER AND NA	AME		
DT&E, N /	BA-5	0604221N	P-3 Modernizati	on Program		H1152 P-3 Se	ensor Integration	on		
(U) D. OTHER PROGR	RAM FUNDING SUMMARY:	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To <u>Complete</u>	Total <u>Cost</u>
BLI#36 P-3 Critica (OSIP 04-04)	l Obsolescence Program (COP)		15.902	19.904	43.024	44.255	42.620	42.973	36.468	245.146
(U) E. ACQUISITION ST	RATEGY:									
	e Active Receiver/Improved Extended ent Program (AIP) ORD (Ser#355-88-9	0 0 1	, ·	•	,	` '	,,			1997. The P-3

CLASSIFICATION:

									DATE:				
Exhibit R-3 Cost Analysis (page 1) APPROPRIATION/BUDGET ACTIVITY											February :	2004	
			PROGRAM ELEMENT						AND NAME				
RDT&E, N / BA-5		1	0604221N P-3 Modernizat				H1152 P-	1	tegration			1	1
Cost Categories	Contract Method & Type	Performing A	ctivity & Location	Total Pys Cost	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development (EER)	C/FP	Raytheon, Mo		6.425	0001	Date	0001	24.0	000.	24.0	00p.0.0	6.425	
Systems Engineering	Various	Various	.	28.160	0.362	01/03	1.181	01/04	0.695	01/05	Continuing		
Systems Engineering	Various	Various					0.729		1.132		0.755		
,													
Subtotal Product Development				34.585	0.362		1.910		1.827		Continuing	Continuing	
Remarks:													
Software Development	C/FP	Raytheon, Mo	cKinney, Tx	5.781								5.781	5.781
Software Development	C/FP	Raytheon, Mo	Kinney, Tx	1.998								1.998	1.998
Software Development	SS/FP	LMNESS, Eg	an, MN	14.561								14.561	14.561
Software Development	WX	NAWCAD, Pa	ax River, MD	2.266	0.307	01/03	0.324	01/04	0.392	01/05	Continuing	Continuing	
0.14.140				04.000			0.004				0 " '	0 11 1	
Subtotal Support				24.606	0.307		0.324		0.392		Continuing	Continuing	
Remarks:													

CLASSIFICATION:

									DATE:				
Exhibit R-3 Cost Analysis (page											February 2	004	
APPROPRIATION/BUDGET ACTIVITY	,		ROGRAM ELEMEN				PROJECT						
RDT&E, N / BA-5		0	604221N P-3 Mode		ram		H1152 P-3		egration				
	Contract			Total	E) / 00	FY 03	E) (0 (FY 04	=) / 0=	FY 05			
Cost Categories	Method & Type	Performing Activ	ity & Location	Pys Cost	FY 03 Cost	Award Date	FY 04 Cost	Award Date		Award Date	Cost to Complete	Total Cost	Target Value of Contract
				Cost	COST	Date							or Contract
Test Support	WX	NAWCAD, Pax	River, MD				2.241	01/04	2.255	01/05	2.351	6.847	
									1				
Subtotal T&E Remarks:							2.241		2.255		2.351	6.847	
Government Engineering Support	WX	NAWCAD, Pax	River, MD	11.758	0.218	01/03	1.220	01/04			Continuing	Continuing	
Program Management Support	WX	NAWCAD, Pax	River, MD				0.794	01/04	0.985	01/05	Continuing	Continuing	
Government Technical Support	WX	NAWCAD, Pax	River, MD				0.366	01/04	0.444	01/05	Continuing	Continuing	
Logistics Support	WX	NAWCAD, Pax	River, MD				0.370	01/04	0.663	01/05	Continuing	Continuing	
SBIR													
Subtotal Management				11.758	0.218		2.750		2.092		Continuing	Continuing	
Remarks:													
Total Cost				70.949	0.887		7.225		6.566		Continuing	Continuing	
Remarks:				D + 2012	PPING LIST	- 10 - 12							

CLASSIFICATION:

EXHIBIT R4, Schedule P																									DATE		F	ebrua	ry 20	04		
APPROPRIATION/BUDGET A RDT&E, N /	CTIV BA- {													R AND		E									D NAM gration							
Fiscal Year	<u> </u>	<u> </u>				20	03		00042	20		nodelli	Zation	200				200	06		111102	20		ı ınıcç	Janon	20	08			200	09	
7.000.	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	l					\triangle																										
P-3 Critical Obsolesence Program Integration & Test									۷	<u> </u>										$\overline{}$												
P-3 Critical Obsolesence Program Kits & Installation										\triangle																						

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE: F	ebruary 20	04
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT			PROJECT NU	MBER AND N	AME	
RDT&E, N / BA-5	0604221N	P-3 Modernizat	ion Program		H1152 P-3 Se	nsor Integration	า	
Schedule Profile		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
EER Multi-Static Active Sesnor System Support								
EER Multi-Static Fleet Technology Insertion		2Q						
P-3 Critical Obsolescence Program (COP) Commence Test/Integration			2Q					
P-3 Critical Obsolescence Program Complete Test/Integration					4Q			
P-3 Critical Obsolescence Prog. Commence APN Procurement			2Q					
					1			
				 	+			

R-1 SHOPPING LIST - Item No.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification	n						DATE:	
							Februa	ry 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEM	ENT NUMBER AN	D NAME		PROJECT NUMBE	ER AND NAME		
RDT&E, N / BA-5	0604221N P-3 M	odernization Progr	am		H3016 Fatigue L	_ife Management Pı	rogram	
COST (\$ in Millions)		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Project Cost				2.988	2.992	2.994	2.998	3.002
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 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	IAME
RDT&E, N / BA-5	0604221N P-3 Modernization Program	H3016 Fatigue Life Manag	gement Program

(U) B. Accomplishments/Planned Program

	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost			2.988
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 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEME	NT NUMBER AND NAME		PROJECT NUMI	BER AND NAME	
RDT&E, N / BA-5	0604221N P-3 M	odernization Program		H3016 Fatigue	Life Management Program	
(U) C. PROGRAM CHANGE SUMMARY:						
(U) Funding: Previous President's Budget: Current BES/President's Budget Total Adjustments	_	FY 2003 0.000 0.000 0.000	FY 2004 0.000 0.000 0.000	FY 2005 0.000 2.988 2.988		
Summary of Adjustments Congressional program reductions Congressional undistributed reductions Congressional rescissions SBIR/STTR Transfer						
Economic Assumptions Reprogrammings Other Navy/OSD Adjustments				-0.010 2.998		
Reprioritization of requirements Congressional Increases Subtotal	_	0.000	0.000	2.988		
(U) Schedule:						
(U) Technical:						
Not Applicable						
		R-1 SHOPPING LIST - II	om No	89		

CLASSIFICATION:

XHIBIT K-2a, RDT8	E Project Justification							DATE:		
		T======				T== =		<u> </u>	Februa	ry 2004
PPROPRIATION/BUDG		PROGRAM	ELEMENT NUM	BER AND NAM	ИE	PROJECT NU	MBER AND N	AME		
DT&E, N /	BA-5	0604221N	P-3 Moderniza	tion Program		H3016 Fation	gue Life Manaç	gement Progra	m	
(U) D. OTHER PR	OGRAM FUNDING SUMMARY:									
Line Item No. & I N/A	<u>Name</u>	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	<u>FY 2008</u>	FY 2009	To <u>Complete</u>	Total <u>Cost</u>
(U) E. ACQUISITION	I STRATEGY:									
. ,										
#0526 Ser 902	fe Management Program levera D1/6U324405 was approved on ong with the NAVAIR Structural	6 Feb 1986. Navy Decision	n Coordination F	aper W-0484-	AS was signed	d 23 Jun 1984. V	Vork will be pe	rformed by LM	AS and other ind	

CLASSIFICATION:

									DATE:				
Exhibit R-3 Cost Analysis (page 1) APPROPRIATION/BUDGET ACTIVITY											February 2	2004	
			AM ELEMENT						AND NAME				
RDT&E, N / BA-5		0604221	IN P-3 Modernization				H3016 F		Managemen		1	T	
Cost Categories	Contract Method & Type	Performing Activity & L	ocation	Total Pys Cost	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Systems Engineering		LMAS, Marietta, GA							2.288		10.186		
Subtotal Product Development Remarks:				0.000	0.000)	0.000)	2.288		10.186	12.474	12.474
Subtotal Support				0.000	0.000	D	0.000		0.000		0.000	0.000	1
Remarks:													

CLASSIFICATION:

									DATE:				
Evhibit P 3 Cost Analysis (nage	2)								DATE:		February 2	·004	
Exhibit R-3 Cost Analysis (page APPROPRIATION/BUDGET ACTIVITY	<u> </u>		PROGRAM ELEMEN	JT			PROJECT	NUMBER	AND NAME		rebluary 2	.004	
RDT&E, N / BA-5			0604221N P-3 Mode		ıram				Management	Program			
	Contract Method &			Total Pys	FY 03	FY 03 Award	FY 04	FY 04 Award	FY 05	FY 05 Award	Cost to	Total	Target Value
Cost Categories	Туре	Performing Ac	ctivity & Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
		 			 	 				<u> </u>		 	
	<u> </u>	<u> </u>			 	 		 		<u> </u>		<u> </u>	
	<u> </u>	<u> </u>			 	 						<u> </u>	
		<u> </u>			<u> </u>	 				<u> </u>			
Subtotal T&E Remarks:	<u> </u>	<u> </u>					0.000	0	0.000		0.000	0.000)
Govt Engineering Support	WX	NAWCAD, Pa	ıx River						0.700	12/04	1.800	2.500)
	<u> </u>				 	 		 		<u> </u>		 	
	<u> </u>				+	+				 	_	 	-
	 	 			+	+		+		 		 	
O to a time and a second		 		0.000	0.000		0.00		0.700	 	4.000	0.506	
Subtotal Management Remarks:	<u> </u>			0.000	0.000	<u>/ </u>	0.000	טן	0.700		1.800	2.500	<u>'1</u>
Total Cost				0.000	0.000)	0.000	0	2.988		11.986	14.974	ţ
Remarks:													

CLASSIFICATION:

XHIBIT R4, Schedule	Profile																								DATE	:						
																											F	ebrua	ary 20	04		
PPROPRIATION/BUDGET	ACTIVITY	1							PROC	SRAM	ELEM	ENT N	UMBE	R ANI	D NAM	E					PROJ	ECT N	IUMBE	R AN	D NAN	1E						
RDT&E, N /	BA-5	i							06042	221N	P-3 I	Moderr	nizatio	n Progi	ram						H3016	6 Fa	tigue L	ife Ma	anager	nent P	rogran	1				
Fiscal Year						20	03			20	04			20	05			20	06			200	07			20	08			200)9	
	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														_																		
lanagement/Sustainment																																
																																
																																L

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:	ebruary 200)4
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT			PROJECT NU	MBER AND NA	AME	
RDT&E, N / BA-5		P-3 Modernizati	on Program			jue Life Manage		
	000122111			EV 2005		FY 2007		
Schedule Profile		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Common on Inventory Fatigue Life Management/Custoinment				2Q				
Commence Inventory Fatigue Life Management/Sustainment Complete Inventory Fatigue Life Management/Sustainment				ZQ.				4Q
Complete inventory Fatigue Life Management/Sustainment								40
								<u> </u>

R-1 SHOPPING LIST - Item No.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification						DATE:	
•						Februa	ry 2004
APPROPRIATION/BUDGET ACTIVITY	ER AND NAME						
RDT&E, N / BA-5	El Networking Progr	ogram					
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Project Cost		1.286					
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.

This Congressional Add will upgrade the system to conform to the Navy's standard tactical message format.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	IAME
RDT&E, N / BA-5	0604221N P-3 Modernization Program	H9368 ALR-95 SEI Network	king Program

(U) B. Accomplishments/Planned Program

	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost		1.286	
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.

R-1 SHOPPING LIST - Item No.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification					DATE:	
						February 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEM	ENT NUMBER AND NAME		PROJECT NUMBE	R AND NAME	
RDT&E, N / BA-5	0604221N P-3 N	Modernization Program		H9368 ALR-95 SE	I Networking Program	
(U) C. PROGRAM CHANGE SUMMARY:						
(U) Funding: Previous President's Budget: Current BES/President's Budget Total Adjustments	_	FY 2003 0.000 0.000 0.000	FY 2004 0.000 1.286 1.286	FY 2005 0.000 0.000 0.000		
Summary of Adjustments Congressional program reductions Congressional undistributed reductions Congressional rescissions SBIR/STTR Transfer Economic Assumptions Reprogrammings Other Navy/OSD Adjustments Reprioritization of requirements Congressional Increases			-0.014 1.300			
Subtotal (U) Schedule:		0.000	1.286	0.000		
(U) Technical: Not Applicable						
		R-1 SHOPPING LIST - I		89		

CLASSIFICATION:

KINDII IK Za, KD IQI	E Project Justification							DATE:	Februa	ry 2004	
PROPRIATION/BUDGE	ET ACTIVITY	PROGRAM E	LEMENT NUM	BER AND NAM	ИE	PROJECT NU	MBER AND N	AME		,	
DT&E, N /	BA-5	0604221N	P-3 Moderniza	tion Program		H9368 ALR-9	5 SEI Network	ing Program			
(U) D. OTHER PRO	OGRAM FUNDING SUMMARY:								To	Total	
<u>Line Item No. & N</u> N/A	<u>lame</u>	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	<u>Complete</u>	Cost	
(U) E. ACQUISITION	STRATEGY:										
Existing Sole S	Source FFP contract to EDO										

CLASSIFICATION:

								DATE:				
Exhibit R-3 Cost Analysis (page 1) APPROPRIATION/BUDGET ACTIVITY										February :	2004	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT				PROJECT				-		
RDT&E, N / BA-5		0604221N P-3 Modernization						etworking P				_
	Contract		Total		FY 03		FY 04		FY 05			
Cost Categories	Method & Type	Performing Activity & Location	Pys Cost	FY 03 Cost	Award Date	FY 04 Cost	Award Date	FY 05 Cost	Award Date	Cost to Complete	Total Cost	Target Value of Contract
Systems Engineering		EDO Morgan Hill Ca.	0031	0031	Date	1.157		0031	Date	Complete	1.157	
Systems Engineering	00/111	EBO Morgan Filli Ca.				1.107	0 1/0 1				1.107	1.107
Subtotal Product Development Remarks:			1.157		0.000)		1.157	,			
									1			
					+			+		+	-	
												1
Subtotal Support			0.000	0.000)	0.000		0.000		0.000	0.000	,
Remarks:	•		<u>-</u>		•		•	•	•	•	•	-

CLASSIFICATION:

									DATE:				
Exhibit R-3 Cost Analysis (pag	e 2)										February 2	:004	
APPROPRIATION/BUDGET ACTIVIT	ΓΥ		ROGRAM ELEMENT					NUMBER A					
RDT&E, N / BA-5		0	604221N P-3 Modern	nization Prog	ram	I=1	H9368 AL	R-95 SEI Ne	etworking Pro	ogram	1		1
	Contract Method &			Total	FY 03	FY 03 Award	FY 04	FY 04 Award	FY 05	FY 05 Award	Cost to	Total	Target Value
Cost Categories	Type	Performing Activ	ity & Location	Pys Cost	Cost	Date	Cost	Date	Cost	Date	Cost to	Cost	of Contract
Cool Galegones	Турс	r choming / total	nty a Location	0031	0001	Date	0031	Date	0031	Date	Complete	0031	or Contract
												 	
Subtotal T&E Remarks:							0.000)	0.000)	0.000	0.000	
Govt Engineering Support	WX	NAWCAD Patux	cent River, MD				0.129	02/04				0.129	
												 	
												<u> </u>	
Subtotal Management				0.000	0.000		0.129	9	0.000		0.000	0.129	
Remarks:													
Total Cost				0.000	0.000		1.286	6	0.000)	0.000	1.286	
Remarks:													
				R-1 SHO	PPING LIS	T - Item No	89						

CLASSIFICATION:

EXHIBIT R4, Schedule Pi	rofile																								DATE	:						
,																											Fe	brua	ry 20	04		
APPROPRIATION/BUDGET A									PROG	SRAM	ELEMI	ENT N	UMBE	R AND	NAMI	E					PROJ	ECT N	IUMBE	R ANI	D NAM	1E						
RDT&E, N /	BA-5	i							06042	221N	P-3 N	1odern	ization	Progra	am						H9368	3 ALR	-95 SE	I Netw	vorking	Progr	am					
Fiscal Year						20	03			20	04			20	05			20	06			200	07			20	08			200	09	
	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
											Λ																					
ALR 95 Networking Engineering Development																																
<u>i</u>																																

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:	ebruary 200	04
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT			PROJECT NU	MBER AND NA	AME	
RDT&E, N / BA-5		P-3 Modernizati	on Program			5 SEI Networki		
	000 122 111			EV 2005				EV 0000
Schedule Profile		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Commonas ALD OF Naturalina Engineering Development			3Q					
Commence ALR 95 Networking Engineering Development Complete ALR 95 Networking Engineering Development			3Q	2Q				
Complete ALK 95 Networking Engineering Development				20				
		1		1				

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
•							Februa	ry 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEM	ENT NUMBER ANI	O NAME		PROJECT NUMBE	ER AND NAME	•	
RDT&E, N / BA-5	0604221N P-3 M	lodernization Progr	am		H9369 P-3 AIP Ph	hase Capability Upo	grade	
COST (\$ in Millions)		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Project Cost			6.082					
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.

This Congressional Add includes the Engineering Development, integration and test of Link-16. LINK 16 will provide the communications path to enable AIP's mission critical role in Sea Power 21 (Forcenet, Sea Control, Persistent Intellegence, Surveillanc, and Reconnaisance (ISR), and Common Operational Picture (COP)).

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	IAME
RDT&E, N / BA-5	0604221N P-3 Modernization Program	H9369 P-3 AIP Phase Capa	ability Upgrade

(U) B. Accomplishments/Planned Program

	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost		6.082	
RDT&E Articles Quantity			

LINK 16 is a secure Tactical Data Link (TDL) that provides secure information, voice distribution and position location within a common position reference grid (i.e., intrinsic identification capability through the dissemination of secure position and identification information).

LINK 16:

- Provides capability to interconnect multiple sources and users of information with data and voice communication.
- Distributes information at high data rates, encrypted in such a way as to provide security and with sufficient jam resistance to yield highly reliable communications in a hostile electromagnetic environment.
- Allows the P-3 AIP platform interoperability between USN and Joint Operations, increasing the AIP communication exchange opportunities with U.S. and allied forces

R-1 SHOPPING LIST - Item No.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification					DATE:	
						February 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM	ELEMENT NUMBER AND NAME		PROJECT NUMBER A	ND NAME	
RDT&E, N / BA-5	0604221N	P-3 Modernization Program		H9369 P-3 AIP Phase	Capability Upgrade	
(U) C. PROGRAM CHANGE SUMMARY:						
(U) Funding: Previous President's Budget:		FY 2003 0.000	FY 2004 0.000	FY 2005 0.000		
Current BES/President's Budget Total Adjustments		0.000 0.000	6.082 6.082			
Summary of Adjustments Congressional program reductions Congressional undistributed reductions Congressional rescissions SBIR/STTR Transfer Economic Assumptions Reprogrammings Other Navy/OSD Adjustments			-0.068			
Reprioritization of requirements Congressional Increases Subtotal		0.000	6.150 6.082	0.000		
(U) Schedule:						
(U) Technical: Not Applicable						
		R-1 SHOPPING LIST - I		80		

CLASSIFICATION:

EXHIBIT R-2a, RDT&E	Project Justification							DATE:	Februa	ary 2004	
APPROPRIATION/BUDGE	T ACTIVITY	PROGRAM E	LEMENT NUM	BER AND NAM	1E	PROJECT NU	MBER AND NA	AME		,	
RDT&E, N /	BA-5		P-3 Modernizat			H9369 P-3 AI	P Phase Capal	oility Upgrade			
(U) D. OTHER PRO	GRAM FUNDING SUMMARY:								То	Total	
<u>Line Item No. & Na</u> N/A	<u>ame</u>	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Cost	
(U) E. ACQUISITION S	STRATEGY:										
Sole source FFF	P to an existing contract										
				DINC LICT							

CLASSIFICATION:

								DATE:				
Exhibit R-3 Cost Analysis (page 1) APPROPRIATION/BUDGET ACTIVITY										February	2004	
		PROGRAM ELEMEN				PROJECT						
RDT&E, N / BA-5	T	0604221N P-3 Mode			1	H9369 P-3		Capability			1	1
	Contract Method &		Total Pys	FY 03	FY 03 Award	FY 04	FY 04 Award	FY 05	FY 05 Award	Cost to	Total	Target Value
Cost Categories		Performing Activity & Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
Systems Engineering	SS/FFP	Lockheed Martin, Eagan Mn.				5.474	06/04				5.474	5.474
<u> </u>									1			
									1			
											1	
											1	
			0.000	0.00				0.000		0.00		
Subtotal Product Development Remarks:			0.000	0.000	0	5.474		0.000)	0.000	5.474	5.474
0.14.4.10			0.000	0.00		0.000		0.000		2.00		
Subtotal Support			0.000	0.000	0	0.000		0.000)	0.000	0.000)
Remarks:												

CLASSIFICATION:

								DATE:				
Exhibit R-3 Cost Analysis (page	2)									February 2	2004	
APPROPRIATION/BUDGET ACTIVITY	,	PROGRAM ELEME				PROJECT						
RDT&E, N / BA-5		0604221N P-3 Mod		ram	_	H9369 P-3	AIP Phase	Capability U	Jpgrade			
O and O ada marriage	Contract Method &	Danfarration Authority 0.1 and inc	Total Pys	FY 03	FY 03 Award	FY 04	FY 04 Award	FY 05	FY 05 Award	Cost to	Total	Target Value
Cost Categories	Type	Performing Activity & Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
Subtotal T&E						0.000		0.000)	0.000	0.000	
Govt Engineering Support	WX	NAWCAD Patuxent River, MD				0.608	2/04				0.608	
Subtotal Management			0.000	0.000)	0.608		0.000)	0.000	0.608	
Remarks:												
Total Cost			0.000	0.000)	6.082		0.000)	0.000	6.082	
Remarks:												
			D 4 0110	DDING LIS	T 14 NI	. 00						

CLASSIFICATION:

EXHIBIT R4, Schedule Pro	file																								DATE	:						
									ı																		Fe	brua	ry 20	04		
APPROPRIATION/BUDGET AC														R AND		E						ECT N										
RDT&E, N /	BA-5	i							06042	221N	P-3 N	1odern	izatior	Progra	am						H9369	P-3 A	AIP Ph	ase C	apabili	ty Upg	rade					
Fiscal Year						20	03			20	04			20	05			20	06			200	07			20	08			20	09	
	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
Link 40 Family and interesting											/					7																
Link 16 Engineering and integration											~					V																
					l							L		DDIN					90							l						<u> </u>

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:	February 20	04
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT			PROJECT NU			
RDT&E, N / BA-5	0604221N	P-3 Modernizati	on Program		H9369 P-3 AII	Phase Capal	oility Upgrade	
Schedule Profile		FY 2003	FY 2004	FY 2005	FY 2006		FY 2008	FY 2009
Commence Link 16 Engineering and integration Complete Link 16 Engineering and integration			3Q					
Complete Link 16 Engineering and integration				4Q				

R-1 SHOPPING LIST - Item No.