CLASSIFICATION:

UNCLASSIFIED

EXHIBIT R-2, RDT&E Budget Item Justification						DATE:	
						Februar	y 2004
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMEN	CLATURE		-
RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY /	BA-5			0604270N Electron	nic Warfare Develo	pment	
COST (\$ in Millions)	FY 2003	FY 2004	*FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Total PE Cost	88.509	275.422	48.956	44.477	42.945	38.447	38.907
E0556 EW Counter Response	53.937	35.366	33.968	35.229	35.846	36.556	37.072
E2175/E2635 Tactical Air Electronic Warfare	12.856	22.057	13.354	7.582	5.289		
E3063 EA-18G	17.756	215.431					
R2260 Specific Emitter Identification	0.895	0.756	0.723	0.725	0.673	0.731	0.652
X2422 LOCO GPSI	2.054						
Z1742 EW Readiness Support	1.011	0.823	0.911	0.941	1.137	1.160	1.183
W9374 ACETEF and JRAAC		0.989					

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This element includes development of electronic warfare systems for the United States Navy (USN), United States Marine Corps (USMC), and United States Army (USA) tactical aircraft, USMC helicopters, surface combatants, data link vulnerability assessments, precision targeting, USMC communications and non-communications jammers, and development and testing of electronic warfare devices for emergency contingencies.

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Exhibit R-2, RDTEN Budget Item Justification (Exhibit R-2, page 1 of 37)

^{* \$3.8}M was identified in prior year funding to forward finance future year requirements and the corresponding adjustment was made in FY 2005.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification	on						DATE:	
							Februa	ry 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEME	NT NUMBER AND	NAME		PROJECT NUMBE	R AND NAME		
RDT&E, N / BA-5	0604270N Electron	ic Warfare Develop	ment		E0556 EW Counte	r Response		
COST (\$ in Millions)		FY 2003	FY 2004	*FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Project Cost		53.937	35.366	33.968	35.229	35.846	36.556	37.072
RDT&E Articles Qty								

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The EA-6B weapon system is designed for jamming and destruction of enemy landbased, shipborne and airborne command, control and communications (C3), and radars associated with early warning, target acquisition surveillance, anti-aircraft artillery, air-to-surface, surface-to-surface, and surface-to-air missiles. In this capacity, it will support carrier based tactical aircraft, battle group operations, and joint forces, in dense radar controlled environments. The efforts under this program element (PE) provide for the electronic countermeasures response to these advanced threat weapon systems and C3 networks which are expanding in density and technical complexity. This PE funds the continuing development and integration of all EW systems for the EA-6B electronic attack aircraft. The test articles being funded are; two EA-6B aircraft modified to support the Improved Capability (ICAP) III program and eight Low Band Transmitter (LBT) Engineering Development Models (EDMs). The two EA-6B aircraft will be used as test articles during government test and evaluation (TECHEVAL/OPEVAL). The LBT EDMs are broken out as three LBT Antenna Set EDMs and five Amplifier Set EDMs. All Amplifier Set EDM and Antenna Set EDMs were completed in FY 2002. The ALQ-99 LBT Antenna Group will provide an expanded war fighting capability against the early warning/acquisition radars and communication links of modern integrated air defense systems. The LBT entered E&MD in September 1996, followed by Low Rate Initial Production (LRIP) anticipated in FY 2005 and Full Rate Production (FRP) approval (Milestone III) anticipated in FY 2006. This effort includes the conversion of the Tactical EA-6B Mission System (TEAMS) software to the Joint Mission Planning System (JMPS), including development of the EA-6B Unique Planning Module

The Airborne Electronic Attack (AEA) aircraft AOA has been completed for the replacement to the EA-6B. Transition to this weapon system, known as the EA-18G will coincide with the planned retirement of the EA-6B.

A requirement exists to allow the EA-6B to participate in Network Centric Warfare. A method of implementing this requirement is to include the EA-6B on the Link-16 Network. Link-16 will allow the EA-6B to receive and send critical situational awareness and tactical data with other aircraft and the battle group.

\$3.8M was identified in prior year funding to forward finance future year requirements and the corresponding adjustment was made in FY 2005.

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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	0604270N Electronic Warfare Development	E0556 EW Counter Respons	se	
		·	-	

B. Accomplishments/Planned Program

ICAP III	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	35.267	12.692	12.911
RDT&E Articles Quantity			

- (U) Continue development of ICAP III system. Efforts will concentrate on completion of Operational Testing (OPEVAL). Continue the baseline ICAP III software update. Continue testing of correction of defect modifications for the ICAP III program. Full rate production contract will be put in place in FY05.

ICAP III UPDATE	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	3.372	9.470	6.402
RDT&E Articles Quantity			

- (U) Continue updating the baseline ICAP III system to include integration of avionics items which include the second Embedded Global Positioning System/Inertial Navigation System (EGI), HARM, ALE-47, Low Band Transmitter, Band 7/8, Night Vision Devices (NVDs) and data fusion with national assets.

CLASSIFICATION:

on			DATE:	
				bruary 2004
PROGRAM ELEMENT NUMBE	ER AND NAME	PROJECT NUMBER AND NA	ME	
0604270N Electronic Warfare D	Development	E0556 EW Counter Response		
	F)/ 00	7.00	5)/ 05	
		FY 04	FY 05	
	1.893			
\ Conduct Operational Assessment	· (OA) and Operation	N Tost (ODE)/AL) of LBT		
.). Conduct Operational Assessment	(OA) and Operation	il lest (OPEVAL) of LBT.		
	EV 02	FV 04	FV 05	
	FY 03	FY 04	FY 05	
	FY 03 1.986	FY 04 1.976	FY 05 1.974	
	1.986	1.976		
tem (TEAMS) software to the Joint M	1.986	1.976		
tem (TEAMS) software to the Joint M	1.986	1.976		
tem (TEAMS) software to the Joint M	1.986	1.976		
tem (TEAMS) software to the Joint M	1.986	1.976		
tem (TEAMS) software to the Joint M	1.986	1.976		
tem (TEAMS) software to the Joint M	1.986	1.976		
tem (TEAMS) software to the Joint M	1.986	1.976		
tem (TEAMS) software to the Joint M	1.986 hission Planning Syst	ems (JMPS).	1.974	
tem (TEAMS) software to the Joint M	1.986	1.976 ems (JMPS).	1.974 FY 05	
tem (TEAMS) software to the Joint M	1.986 hission Planning Syst	ems (JMPS).	1.974	
	0604270N Electronic Warfare I	PROGRAM ELEMENT NUMBER AND NAME 0604270N Electronic Warfare Development FY 03 1.893 L). Conduct Operational Assessment (OA) and Operational	0604270N Electronic Warfare Development E0556 EW Counter Response	PROGRAM ELEMENT NUMBER AND NAME 0604270N Electronic Warfare Development FY 03 FY 04 FY 05 1.893

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justifica	ation			DATE:	004
PROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER	R AND NAME	PROJECT NUMBER AND NA	February 2	004
DT&E, N / BA-5	0604270N Electronic Warfare De		E0556 EW Counter Respons		
Accomplishments/Planned Program (Cont.))	·			
JATO		FY 03	FY 04	FY 05	
Accomplishments/Effort/Subtotal Cost		9.766	9.767	10.305	
RDT&E Articles Quantity		0.700	0.707	10.000	
FIBER OPTIC		FY 03	FY 04	FY 05	
Accomplishments/Effort/Subtotal Cost		FY 03 1.653	FY 04	FY 05	
		1.653			

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification				D	ATE:
					February 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER	AND NAME		PROJECT NUMBER AND NAM	ME
RDT&E, N / BA-5	0604270N Electronic Warfare De	velopment		E0556 EW Counter Response	
C. PROGRAM CHANGE SUMMARY:					
Funding:	FY 2003	FY 2004	FY 2005		
Previous President's Budget:	52.615	36.644	38.452		
Current BES/President's Budget	53.937	35.366	33.968		
Total Adjustments	1.322	-1.278	-4.484		
Summary of Adjustments					
Congressional program reductions					
Congressional undistributed reduction	IS	-0.408			
Congressional rescissions					
SBIR/STTR Transfer	-0.445				
Economic Assumptions			-0.098		
Reprogrammings	1.767				
Other Adjustments		-0.870	-4.386		
Congressional increases		4.070			
Subtotal	1.322	-1.278	-4.484		
Schedule:					
Not Applicable					
Technical:					
Not Applicable					

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Ju	stification								DATE:	
										February 2004
APPROPRIATION/BUDGET ACTIVITY			PROGRAM EI	EMENT NUM	BER AND NAM	ΛE	PROJECT NU	IMBER AND N	AME	
RDT&E, N / BA	-5		0604270N Ele	ctronic Warfar	e Development		E0556 EW Co	unter Respons	se	
D. OTHER PROGRAM FUNDING	SUMMARY:							To	Total	
Line Item No. & Name	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	<u>Cost</u>	

38.694

20.106

19.249

163.700

3,065.758

E. ACQUISITION STRATEGY:

P-1 # 24, EA-6 Series

314.175 334.778

- The LBT development contract occurred following a full and open competition and was awarded to BAE Systems (formerly MARCONI). Following development and successful DT/OA, sole source LRIP contracts will be awarded. Following successful OT, a sole source production contract will be awarded.

102.854

165.702

- The ICAP III contract, an E&MD CPIF/AF basic contract with two Fixed Price Incentive (FPI) production options, was awarded to a Northrop Grumman team in March 1998 following Milestone II and a full and open competition. The contract was changed to a CPAF contract in FY 1999. LRIP was completed in FY 2003. Milestone III and Full Rate Production are scheduled for FY 2005 with Initial Operating Capability in FY 2005.

CLASSIFICATION:

								DATE:				
Exhibit R-3 Cost Analysis (pag										February 200	04	
APPROPRIATION/BUDGET ACTIV	TY	PROGRAM E	LEMENT			PROJECT NU	JMBER AND	NAME				
RDT&E, N / BA-5			ectronic Warfare			E0556 EW Co		nse				
Cost Categories	1	Performing	Total		FY 03	57.04	FY 04	E) (0.5	FY 05			
	Method & Type	Activity & Location	PY s 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
Primary Hardware Dev -LBT		BAE Systems Lansdale, PA	31.567	Cost	Date	Cost	Date	Cost	Date	Complete	31.567	
Primary Hdw Develop - ICAP III		Northrop Grumman, NY	209.528	25.965	11/02	9.811	11/03	5.963	11/04		251.267	251.267
Primary Hdw Develop - ICAP III Primary Hdw Develop - Spray Cool		Isothermal Sys Research	2.612	25.965	11/02	9.011	11/03	5.903	11/04		2.612	
Primary Hdw Develop - Spray Cool		Northrop Grumman, NY	55.797			0.890	02/04				56.687	56.687
		· · · · · · · · · · · · · · · · · · ·				0.690	02/04					
Primary Hdw Develop - Min of ICAP Primary Hdw Develop - LOCO GPSI		Northrop Grumman, NY SPAWAR	2.636 8.786								2.636 8.786	
Primary Hdw Develop - Fiber Optic		DMEA. McClellan AFB	0.700	1.082	04/03						1.082	
	C/CPFF	,	0.504	1.082	04/03							
Aircraft Integration - Spray Cool		Isotermal Sys Research	6.531								6.531	6.531
Primary Hdw Develop - EA-18G	SS/CPFF WX	McDonnell Douglas	2.024	0.500	40/00	0.740	40/00	0.400	40/04	0	2.024	2.024
Systems Engineering		NRL. Wash DC	8.541	0.500	10/02	0.746		0.488		Continuing		
Systems Engineering	WX	NADEP, JAX	5.227	1.126		0.492		0.850		Continuing		
Systems Engineering		NSWC Crane	8.690	1.415		2.512		2.800		Continuing	Ŭ	
Systems Engineering	WX	NAWCAD PAX	19.484	8.000	10/02	2.018		4.954		Continuing		
Systems Engineering	WX	NAWCAD LKE	2.804	0.371	10/02	0.162		0.200		Continuing		
Systems Engineering		NAWCWD, PT MUGU	23.859	3.973	10/02	3.034		5.300		Continuing		
Systems Engineering	Various	VARIOUS	45.836	0.364	10/02	3.119	10/03	1.507	10/04	Continuing	Continuing	
											0.000	l
											0.000	l
Award Fees - ICAP III	C/CPAF	Northrop Grumman	2.474			4.000	12/03	9.106	i		15.580	
											0.000	
											0.000	
											0.000	
											0.000	
Subtotal Product Development			436.396	42.796		26.784		31.168	<u> </u>	Continuing	Continuing	

Remarks:

CLASSIFICATION:

								DATE:				
Exhibit R-3 Cost Analysis (pa APPROPRIATION/BUDGET ACTI	age 1)									February 20	04	
	VITY	PROGRAM	ELEMENT			PROJECT NU	JMBER AND	NAME		-		
RDT&E, N / BA-5			lectronic Warfar	e Developmen	ıt	E0556 EW Co	ounter Respo	nse				
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s 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
Development Support - JATO	SS/FP	JHU/APL, Columbia, MD	7.353			2.300		2.40	0 01/05	0.000		
Development Support	Various	MISC	12.009								12.009	
										0.000		
											0.000	
											0.000	1
											0.000	
											0.000	
											0.000	
Studies and Analysis - AEA Studies	Various	Various	19.694	1							19.694	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
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											0.000)
											0.000	
											0.000)
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											0.000)
											0.000)
Subtotal Support			39.056	2.200	0	2.300)	2.40	0		45.956	3
Remarks:												

CLASSIFICATION:

Exhibit R-3 Cost Analys	sic (page 2)							DATE:		February 20	0.4	
APPROPRIATION/BUDGET		PROGRAM E	EI EMENIT			PROJECT NU	IMBED AND	NAME		rebluary 200	U4	
	A-5		ectronic Warfar	e Develonment		E0556 EW C						
Cost Categories	Contract		Total	e Development	FY 03	L0330 LVV C	FY 04		FY 05	1		
a con canagamen	Method	Activity &	PY s	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
Developmental Testing - ICA	AP III WX	NAWCAD, PAX	3.000	3.000	11/02	2.522	11/03				8.522	
Developmental Testing - Mis	ssion PlarWX	NAWCWD, PT MUGU		0.100	12/02	0.100	12/03	0.100	12/04		0.000	
Developmental Testing - Mis		NAWCAD, PAX		0.100		0.100	•	0.100	12/04		0.300	1
Developmental Testing - Fib		NAWCAD, PAX		0.398							0.398	1
Developmental Testing - LB		NAWCAD, PAX	3.000								3.893	
Developmental Testing - Spi	•	NAWCWD, PT MUGU	1.306								1.306	
Operational Test & Eval: Mis		OPTEVFOR, Norfolk, VA		0.100	12/02	0.100	12/03	0.100	12/04		0.300	
Operational Test & Eval: ICA		OPTEVFOR, Norfolk, VA	5.146			3.360					11.756	
Operational Test & Eval: LB	•	OPTEVFOR, Norfolk, VA		1.000							1.000	
Subtotal T&E			12.452	8.841		6.182	,	0.300			27.775	
											0.000	
Government Eng Supt - Missior	n Planning WX	NAWCWD, PT MUGU		0.100	12/02	0.100) 12/03	0.100	02/05		0.000	
Government Eng Supt - Mission	n Planning WX	NAWCWD, PT MUGU		0.100	12/02	0.100	12/03	0.100	02/05			
Government Eng Supt - Mission Program Mgmt Supt - Spray Co		NAWCWD, PT MUGU NAWCAD, PAX	1.306		12/02	0.100	12/03	0.100	02/05		0.300 0.000 1.306	
			1.306		12/02	0.100	12/03	0.100	02/05		0.300	
			1.306		12/02	0.100	12/03	0.100	02/05		0.300 0.000 1.306	
			1.306			0.100		0.100			0.300 0.000 1.306 0.000	
Program Mgmt Supt - Spray Co											0.300 0.000 1.306 0.000 0.000	
Program Mgmt Supt - Spray Co				0.100						Continuing	0.300 0.000 1.306 0.000 0.000 1.606	

CLASSIFICATION:

EXHIBIT R4, Schedule																									DATE	:	F	ebrua	ry 20	04		
APPROPRIATION/BUDGET														R AND							PROJ					1E			-			
RDT&E, N /	BA-5	•							06042	70N E	lectron	ic Wa	rfare D	evelop	ment		1				E0556	EW C	Counte	r Resp	onse							
Fiscal Year		20	02			20	03	r		200	04			20	05			200	06			20	07			20	80	r		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
Acquisition Milestones LBT																	IOC															
LBT																	MS III/ LBT	FRP														
Acquisition Milestones ICAP III								LRIP Decisi ICAP					Ζ	S III AP III	IOC	I																
Test & Evaluation Milestones LBT Development Test							DT-II/0	OT-II LE	зт																							
Operational Test ICAP III Development Test/ Operational Test		DT IC	AP III				ICAP I	II DT II	B/OT-II]	ICAP I	II (DT-II	I A/B 8	S OT-III	A/B)/LII	NK 16 F	OT&E												
Production Milestones LBT LRIP Start - FY05 FRP Start - FY06													Start LRIP LBT				\triangle	FRP Sta	art - LB	T												
ICAP III LRIP Award - FY03 FRP Award - FY05							LRIP Contra Award						$ \downarrow^{\angle}$	FRP Award																		
Deliveries						ICAP-	LRIP	I (10)			LBT -	LRIP I	(9)																			

^{*} Not required for Budget Activities 1, 2, 3, and 6

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:		
							ebruary 20	04
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EI	LEMENT			PROJECT NU	MBER AND NA	AME	
RDT&BA-5	0604270N Ele	ctronic Warfare	e Development		E0556 EW Co	unter Respons	e	
Schedule Profile	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Low Band Transmitter								
Combined DT-IIA/OT-II LBT		2Q-4Q	1Q-4Q					
Start Low-Rate Initial Production (LRIP) LBT				1Q				
IOC LBT					1Q			
Full Rate Production (FRP) Decision LBT (MS III)					1Q			
Full Rate Production Start LBT					1Q			
ICAP III					†			
Developmental Testing (DT)	2Q-4Q	1Q-2Q						
Operational Assessment/TECHEVAL/OPEVAL start		2Q-3Q	2Q/2Q					
Low Rate Initial Production (LRIP) Decision ICAP III		3Q						
LRIP Contract Award - ICAP III		3Q						
Complete ICAP III OPEVAL			4Q					
Milestone III - ICAP III				2Q				
ICAP III FRP Award				2Q				
IOC - ICAP III				3Q				
FOT&E 1				2Q-4Q	10.00			
FOT&E 2					1Q-3Q			

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EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							Februa	ry 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEM	ENT NUMBER AND	NAME		PROJECT NUMBE	R AND NAME		
RDT&E, N / BA-5	0604270N Electror	nic Warfare Develop	oment		2175 TACAIR EW	& 2635 IDECM (Co	ongressional Add)	
COST (\$ in Millions)		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Project Cost		*12.856	**22.057	13.354	7.582	5.289		
RDT&E Articles Qty Not Applicable								

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This joint service subproject develops the new techniques generator and fiber optic towed decoy of the Radio Frequency Countermeasures (RFCM) Subsystem as well as the Navy-unique portions of Advanced Strategic and Tactical Expendables (ASTE). It also integrates RFCM and ASTE with Radar Warning Receiver (RWR), Countermeasures Dispensing Set (CMDS) and associated cockpit controls and displays to provide the lead aircraft (F/A-18E/F) with increased survivability against Infrared/Radio Frequency (IR/RF) threats.

AN/ALR-67(V)3&4 RADAR WARNING RECEIVER: This subproject developed the system which provides enhanced situational awareness by providing accurate azimuth display of all programmed threats, independent of aircraft attitude. This also acted as Electronic Warfare (EW) Bus Controller.

AN/ALE-50 ADVANCED AIRBORNE EXPENDABLE DECOY (AAED): This Joint Service (with Air Force) subproject developed the system to decoy enemy radio frequency homing missiles away from friendly aircraft.

FLEET ELECTRONIC WARFARE SUPPORT GROUP (FEWSG): This subproject developed new EW equipment and technology which is used to provide realistic hostile EW threat environment, and support the evaluation and development of tactics and training.

- * The FY 2003 budget reflects a \$7.6M Congressional Add for IDECM, Project 2635 which has been revised by -\$87K for Congressional Undistributed Adjustments, -\$81K for Economic Assumptions, and -\$19K for Small Business Innovative Research.
- ** The FY 2004 budget reflects a \$9.0 Congressional Add for IDECM, Project 2635 which has been revised by \$-100K for Congressional Undistributed Adjustments.

R-1 SHOPPING LIST - Item No.

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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	0604270N Electronic Warfare Development	2175 TACAIR EW & 2635 II	DECM (Congressional Add)	

B. Accomplishments/Planned Program

	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	12.856	22.057	13.354
RDT&E Articles Quantity			

Fund engineering and manufacturing (E&MD) contract and engineering, technical and logistic support. Fund A-Kit Block 2 efforts for integration of the Radio Frequency Countermeasure (RFCM) subsystems into the F/A-18 E/F.

Fund Block 3 efforts for integration of the RFCM subsystems into the F/A-18 E/F. Fund Block 2 Operational Evaluation (OPEVAL) and Milestone III decision for ALQ-214(V)2.

Fund E&MD contract and engineering, technical and logistic support. Fund A-Kit Block 3 efforts for integration of the RFCM subsystems into the F/A-18 E/F. Fund Block 3 Combined Developmental Testing and Operational Testing (CDT/OT). Fund Block 3 OPEVAL and Milestone III decision.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification				DATE:
				February 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	F	PROJECT NUMBER AND	D NAME
RDT&E, N / BA-5	0604270N Electronic Warfare Development	2	2175 TACAIR EW & 2635	5 IDECM (Congressional Add)
C. PROGRAM CHANGE SUMMARY:				
Funding:	FY 2003 F	Y 2004	FY 2005	
Previous President's Budget:	13.063	13.639	0.000	
Current BES/President's Budget	12.856	22.057	13.354	
Total Adjustments	-0.207	8.418	13.354	
Summary of Adjustments				
Congressional program reductions				
Congressional undistributed reduction	ns	-0.252		
Congressional rescissions				
SBIR/STTR Transfer	-0.122			
Other Adjustments		-0.330	13.392	
Economic Assumptions			-0.038	
Reprogrammings	-0.085			
Congressional increases		9.000		
Subtotal	-0.207	8.418	13.354	
Schedule:				
	dget reflects a program schedule restructuring for IB-2 a	nd IB-3 T	Testing.	
-				
Technical: Not Applicable.				
••				

CLASSIFICATION:

EXHIBIT R-2a, RDT&E	Project Justification							DATE:		
	•									February 2004
APPROPRIATION/BUDGET	ACTIVITY	PROGRAM E	LEMENT NUM	IBER AND NAN	ΛE	PROJECT NU	MBER AND N	AME		<u>-</u>
RDT&E, N /	BA-5	0604270N Ele	ectronic Warfar	e Development	t	2175 TACAIR	EW & 2635 ID	ECM (Congre	ssional Add)	
D. OTHER PROGRAI	M FUNDING SUMMARY:									
									То	Total
Line Item No. & Nan	<u>ne</u>	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Cost
APN-5 Line 49 Comm (OSIP 007-03 - IDECI		4.304	11.918	36.304	49.292	40.204	40.976	41.728	253.4	478.126
E. ACQUISITION STRA	TEGY:									

IDECM sole source LRIP 1/2/3 in FY 01, 02, and 03; sole source radio frequency countermeasure full rate production (FRP) in FY 04 and Fiber optic towed decoy sole source FRP in FY 07.

CLASSIFICATION:

								DATE:				
Exhibit R-3 Cost Analysis (pag	e 1)									February 20	04	
APPROPRIATION/BUDGET ACTIVI	ITY	PROGRAM E	LEMENT			PROJECT N	JMBER AND I	NAME				
RDT&E, N / BA-4		l l	ectronic Warfar	e Developmen		2175 TACAIR		DECM (Congres				
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s 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 Develop (IDECM)	*C-CPIF	BAE/NH	229.763	1.700	03/03	0.250	01/04				231.713	3 231.713
Ancillary Hardware Develop (IMPLC)	SS/CPFF	RAYTHEON/GOLETA, CA	28.312								28.312	
Training Development												
Aircraft Platform Integration (IDECM)	SS/FFP	BOEING, MO	67.609	0.416	03/03	2.736	01/04	0.800	01/05	1.500	73.061	73.061
Ship Suitability												
Systems Engineering	WX/RX	CHINA LAKE/CA	58.759	1.200	03/03	1.600	10/03	1.400	12/04	2.500	65.459)
EMD Support (IDECM)	воа	BAE/NH	1.550	4.911	03/03	9.922	2 01/04	3.100	12/04	1.600	21.083	3 21.083
Navy Only Fiber Optic Towed Decoy	CPFF	Raytheon/Goleta, CA						2.900	12/04	6.000	8.900	8.900
Award Fees												
Licenses												
Miscellaneous (effort < \$1M each)	WX/RX	VARIOUS	45.940			0.450	D .				46.390)
Subtotal Product Development			431.933	8.227	,	14.958	3	8.200		11.600	474.918	3
Remarks:												

CLASSIFICATION:

									DATE:				
Exhibit R-3 Cost Analysis (pa	ge 2)										February 200)4	
APPROPRIATION/BUDGET ACTIV	/ITY		PROGRAM EI	LEMENT			PROJECT NU	IMBER AND I	NAME				
RDT&E, N / BA-4			0604270N Ele	ctronic Warfar	e Developmen	t	2175 TACAIR	EW & 2635 II	DECM (Congres	ssional Add)			
Cost Categories		Performing	_	Total		FY 03		FY 04		FY 05			
	Method	Activity &		PY s	FY 03	Award		Award	FY 05	Award			Target Value
	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
Development Support													
Software Development (IDECM)	SS/CPFF	Raytheon, Go	oleta CA	5.655	0.394	03/03	0.300	03/04				6.349	6.349
Integrated Logistics Support	WX/RX	Jacksonville,	FL		0.185	01/03	0.510	03/04	0.450	03/05		1.145	
Configuration Management													
Technical Data													
Studies & Analyses	WX/RX	Various					0.500	02/04	0.800	02/05		1.300	
GFE													
Award Fees													
Software Development (IDECM)	SS/CPFF	Litton, CA		4.336								4.336	4.336
Subtotal Support				9.991	0.579		1.310		1.250		0.000	13.130	
Castotal Capport				0.001	0.07	1		Į.		!	0.000	1000	ļ.
Remarks:													
remane.													

CLASSIFICATION:

								DATE:				
Exhibit R-3 Cost Analysis (pag	ge 3)									February 20	04	
APPROPRIATION/BUDGET ACTIV	ITY	PROGRAM	ELEMENT			PROJECT NU	JMBER AND I	NAME				
RDT&E, N / BA-4			lectronic Warfar	e Development		2175 TACAIR		DECM (Congres				
Cost Categories	Contract		Total	E) (00	FY 03	E) (0 4	FY 04	E) / 0.5	FY 05	0 11		
	Method & Type	Activity & Location	PY s 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
ENGINEERING/LOGISTIC SPT	WX/RX	NAWC-AD/PAX	25.047			1.700		1.100		1.000	1	1
ENGINEERING TECH FLT TEST	WX/RX WX/RX	NAWC-WD, CL	36.452			2.264		1.850	1	2.000		1
Miscellaneous (efforts < \$1M each)	WX/RX	Various	1.608			0.400	1	0.096	1	2.000	2.434	
Test Support	WX/RX	OPTEVFOR	1.500	•		0.400	1	0.158		2.500		
Miscellaneous (efforts < \$1M each)	WX/RX	NAWC-WD, Pt Mugu		0.400		0.500		000	12,01	2.000	0.900	1
Subtotal T&E		, and the first time ge	64.607	•		5.139		3.204		5.500		+
Contractor Engineering Support	T	1		I	Τ	1	1	1	Τ		Ī	
Government Engineering Support Program Management Support	WX/RX	NAWC-AD/Pax/Various	21.384	0.763	03/03	0.650	11/03	0.700	11/04	2.000	25.497	,
Miscellaneous (efforts < \$1M each)	WX/RX	Various	6.509			0.030	11/05	0.700	11/04	2.000	6.749	1
Transportation	,	Valledo	0.000	0.2.10	74.1040						5	
SBIR Assessment												
Subtotal Management			27.893	1.003		0.650)	0.700		2.000	32.246	3
Remarks:												
Total Cost			534.424	12.856		22.057	,	13.354		19.100	601.791	
Remarks:				DDING LIST		00						

CLASSIFICATION:

EXHIBIT R4, Schedule	Profile																								DATE	:	Fe	ebrua	ry 20	04		
APPROPRIATION/BUDGET									PROGI														IUMBE									
RDT&E, N /	BA-5	<u> </u>							060427	'ON Ele	ectronic	Warfa	are De	velopm	nent						2175	TACAI	R EW 8	\$ 2635	DEC	M (Co	ngress	ional A	Add)			
Fiscal Year		20	02			20	03	Г		200)4			20	05			200	06			20	07			200	08			200	9	
	1	2	3	4	1	2	3	4	1	2	3		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Acquisition Milestones										MS III A 1B-2		IOC	7							MS III 1B-3												
IB-3 Development			SAFE	SEP	A	LAB /		Enve	lope Ex	pansio	n /DT		ined D	T/OT			\triangle															
Software	1B-2	UPD/	TES							16	3-2 / II	8-3 UP	DATE	S																		
Test & Evaluation Milestones		Co	mbine	DT/	ОΤ																											
IB-2		4																														
IB-2 OPEVAL				ODE		A																										
IB-3 Development				OPE	VAL	OT	KPI	_			D	T I		\triangle	CD	T/OT	\triangle	OF	PEVAL													
Production Milestones	LF	RIP 2				l	RIP 3				FRP 1		FRP	2			FRP	3			FRP 4	,			FRP	5			FRP (6		
IB-3 Development														L	RIP 2			L	RIP 3		FRP				FRP :	2			FRP 3	i		
Deliveries																																
IB-2								LRIP 1	i 	LRIP 2				LRIP 3	<u> </u>		FRP1				FRP2				FRP3				FRP4			
IB-3																	am No		LRIP 2					LRIP 3		FRP1			FRP2			

^{*} Not required for Budget Activities 1, 2, 3, and 6

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:		
						F	February 20	04
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT			PROJECT NU	MBER AND NA		
RDT&BA-5	0604270N Ele	ctronic Warfare	e Development		2175 TACAIR	EW & 2635 ID	ECM (Congres	sional Add)
Schedule Profile	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
IB-2 IOC (IDECM BLOCK 2)			4Q					
IB-2 LRIP 2	2Q							
IB-2 COMBINED DT/OT	3Q-4Q							
IB-2 OPEVAL		1Q						
IB-2 LRIP 3 (IB-2 - Production Milestone)		3Q						
IB-2 MILESTONE III			2Q					
DT IB-3 (IDECM Block-3 Development)		4Q	*					
IB-2 OT REPORT		2Q-4Q						
BEGIN IB-2 LRIP 1 DELIVERIES		4Q						
IB-3 COMBINED DT/OT (Development - T&E)				3Q-4Q				
IB-2 FRP 1			3Q					
BEGIN IB-2 LRIP 2 DELIVERIES			2Q					
IB-2 FRP 2			*	1Q				
IB-3 OPEVAL (Development - T&E)					3Q			
IB-2 FRP 3					1Q			
IB-3 MILESTONE III					4Q			
IB-3 FRP (Development - Production Milestone)						1Q	1Q	1Q
IB-2 FRP 4						1Q		
BEGIN IB-2 LRIP 3 DELIVERIES				2Q				
IB-2 FRP 1 DELIVERIES					1Q			
IB-2 FRP 2 DELIVERIES						1Q		
IB-2 FRP 3 DELIVERIES							1Q	
IB-2 FRP 4 DELIVERIES								1Q
IB-2 FRP 5							1Q	
IB-2 FRP 6								1Q
IB-3 LRIP 2 DELIVERIES					3Q			
IB-3 LRIP 3 DELIVERIES						4Q		
IB-3 FRP 1 DELIVERIES							2Q	
IB-3 FRP 2 DELIVERIES								1Q

R-1 SHOPPING LIST - Item No. 98

UNCLASSIFIED

Exhibit R-3, Project Cost Analysis (Exhibit R-3, page 21 of 37)

CLASSIFICATION: UNCLASSIFIED								
EXHIBIT R-2a, RDT&E Project Justification							Februa	ary 2004
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5	0604270N Ele		_	BER AND NAM		PROJECT NU R2260 Specif	MBER AND NAME ic Emitter ID	
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	
Project Cost	0.895	0.756	0.723	0.725	0.673	0.731	0.652	
RDT&E Articles Qty								

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This project supports systems development and collection of Specific Emitter Identification (SEI) information from National Technical Means (NTM) to track commercial ships over 200 gross registered tons world-wide. Research and development will cover improvements and enhancements to Electronic Intelligence technology. This will include improved/next generation SEI technology for miniaturization and automation of hardware, national collection systems, signal processing and analysis, and de-interleaving of signals. Propagation in a multi-path signal environment will also be assessed. All work on this project will be undertaken in pursuit of goals stated by the Office of Naval Intelligence and the National Security Agency in support of the Worldwide Ship Tracking Program.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	NAME
RDT&E, N /BA-5	0604270N Electronic Warfare Development	R2260 Specific Emitter ID	

(U) B. Accomplishments/Planned Program

	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	0.502	0.200	0.000
RDT&E Articles Quantity			

This effort supports systems development and information fusion of improved SEI technology for automation of hardware, national collection systems, signal processing and analysis, and deinterleaving of signals. Work was performed on increasing sensor fusion and automation to reduce staffing and support remote access and control capability. In FY 03 this effort will demonstrate the sensor fusion and automation aspects of SEI systems to reduce staffing and support remote access and control capability. In FY 04 this effort will support the deployment and real world tuning of highly automated SEI systems with sensor fusion, achieving goals of increased performance and reduced staffing.

	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	0.393	0.342	0.323
RDT&E Articles Quantity			

This effort supports development of a autonomous surveillance system capable of providing emitter signal information to a central location. Work was begun on this effort in FY02. In FY03 a demonstration of a complete autonomous emitter signal surveillance system consisting of central base station and one or more remote sensor sites will be performed. In FY 04 & FY 05, this effort will support the deployment and real world tuning of an autonomous emitter signal surveillance system and monitor base station and remote site operations.

	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	0.000	0.214	0.400
RDT&E Articles Quantity			

Improved SEI system performance, real-time communication and tactical use of SEI will be expanded with next generation SEI technology. In FY 04, this effort will develop and demonstrate enhanced system support for real-time communication and tactical use of SEI and other signal data. In FY 05, this effort will improve and deploy enhanced system support for real-time communication and tactical use of SEI and other signal data.

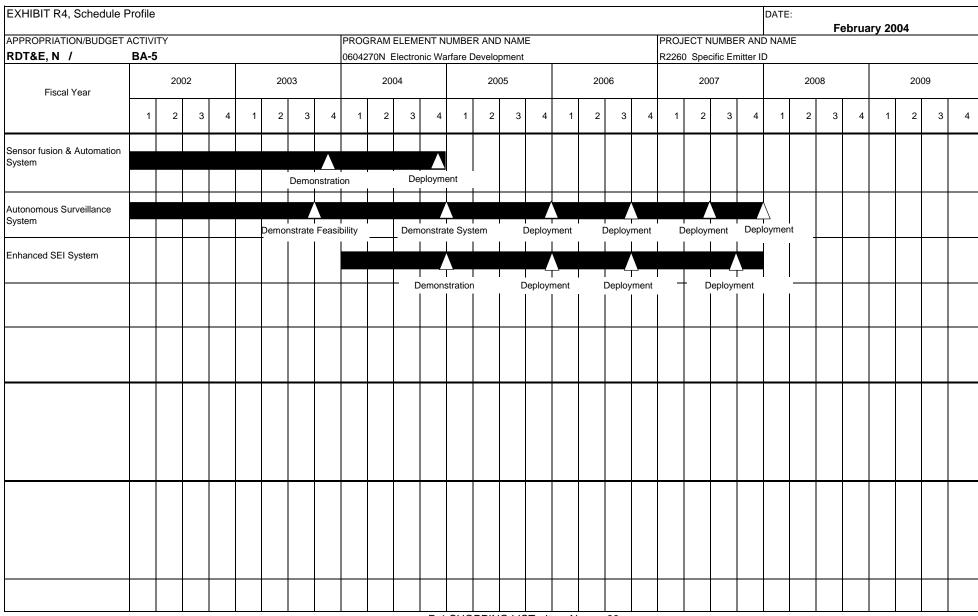
CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification					DATE:	
						February 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER	AND NAME	PRO	OJECT NUMBER AND N	AME	
RDT&E, N / BA-5	0604270N Electronic Warfare Development		R22	260 Specific Emitter ID		
(U) C. PROGRAM CHANGE SUMMARY:						
(U) Funding:	FY 2003	FY 2004	FY 2005			
Previous President's Budget:	0.996	0.764	0.827			
Current BES/President's Budget	0.895	0.756	0.723			
Total Adjustments	-0.101	-0.008	-0.104			
Summary of Adjustments						
Reprogrammings	-0.010					
SBIR/STTR Transfer	-0.002					
Other Adjustments	-0.089		-0.104			
Section 8094: Mgmt Improvement		-0.002				
Section 8126: Efficiences		-0.006				
Subtotal	-0.101	-0.008	-0.104			
(U) Schedule:						
Not Applicable						
TOC Applicable						
(U) Technical:						
Not Applicable						
пот Арріісавіе						

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE:	
A DDD ODD A TION OF THE OTHER WITH			February 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N /BA-5	0604270N Electronic Warfare Development	R2260 Specific Emitter ID	
(U) D. OTHER PROGRAM FUNDING SUMMARY:			
Not Applicable			
(U) E. ACQUISITION STRATEGY:			
This is a non-acquisition Research and Develop	ment Program.		
(U) F. MAJOR PERFORMERS:			
No performer in this project received more than	15% of the program or \$10 million.		

CLASSIFICATION:



^{*} Not required for Budget Activities 1, 2, 3, and 6

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:		
						l	February 20	04
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EI	LEMENT			PROJECT NU	JMBER AND NAME		
RDT&E, N BA-5	0604270N Ele	ectronic Warfar	e Development		R2260 Specif			
Schedule Profile	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Demonstrate Sensor Fusion & Autonomous System		4Q						
Demonstrate Feasibility of Autonomous Surveillance System		3Q-4Q						
Demonstrate Completed Autonomous Surveillance System			4Q					
Deployment of Autonmated SEI System with Sensor Fusion			4Q					
Deploy Autonomous Surveillance System				4Q	3Q-4Q	2Q-4Q		
Demonstrate Real Time Communications and Tactical SEI			4Q					
Deploy Real Time Communications and Tactical SEI				3Q-4Q	3Q-4Q	3Q-4Q		
								<u> </u>
								
								
								
								
								
						<u> </u>	<u> </u>	1

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							Februa	ry 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEM	ENT NUMBER AND	NAME		PROJECT NUMBE	R AND NAME		
RDT&E, N / BA-5	0604270N Electron	nic Warfare Develop	oment		Z1742 EW Technic	cal Development		
COST (\$ in Millions)		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Project Cost		1.011	0.823	0.911	0.941	1.137	1.160	1.183
RDT&E Articles Qty								

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Skunkworks is a CNO N614 funded effort that focuses on the quick reaction prototyping of tactical information warfare systems. This program directly addresses various fleet requirements, airborne and surface cryptologic operational requirements documents and the joint requirements oversight council mission needs statement for information warfare systems and capabilities across the spectrum of conflict. The projects developed under this program are designed to deny, degrade, disrupt or destroy enemy command and control communications. These systems provide information dominance to friendly forces during conflict, which is necessary for successful mission accomplishment.

R-1 SHOPPING LIST - Item No.

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CLASSIFICATION:

ion		DATE:	oruary 2004
ON/BUDGET ACTIVITY PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER AND N			
0604270N Electronic Warfare Development	Z1742 EW Technical Developmen	nt	
FY 03	FY 04	FY 05	
	0.000	0.000	
N/A	N/A	N/A	
aartification			
certification.			
	FY 04	FY 05	
N/A	N/A	N/A	
and that and architecture			
ient, test and evaluation.			
FY 03	FY 04	FY 05	
FY 03 0.200 N/A	FY 04 0.200 N/A	FY 05 0.200 N/A	
	PROGRAM ELEMENT NUMBER AND NAME 0604270N Electronic Warfare Development FY 03 0.000 N/A certification. FY 03 0.400 N/A nent, test and evaluation.	FY 03 FY 04 O.400 O.40	PROGRAM ELEMENT NUMBER AND NAME Development Developm

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification	DATE: February 2	2004		
PPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	NAME	2004
DT&E, N / BA-5	0604270N Electronic Warfare Development	Z1742 EW Technical Devel		
s. Accomplishments/Planned Program				
	FY 03	FY 04	FY 05	
Accomplishments/Effort/Subtotal Cost	0.411	0.223	0.311	
RDT&E Articles Quantity	N/A	N/A	9	
- (U) Continue aircraft IW system design.				
	51/00		T-100	
Accomplishments/Effort/Subtotal Cost	FY 03	FY 04	FY 05	
RDT&E Articles Quantity				
	FY 03	FY 04	FY 05	
Accomplishments/Effort/Subtotal Cost				
RDT&E Articles Quantity				

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification				DATE:	
,					February 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER	AND NAME		PROJECT NUMBER AND NAME	-
RDT&E, N / BA-5	0604270N Electronic Warfare Development			Z1742 EW Technical Development	
C. PROGRAM CHANGE SUMMARY:					
Funding:	FY 2003	FY 2004	FY 2005		
Previous President's Budget:	1.035	0.832	0.917		
Current BES/President's Budget	1.011	0.823	0.911		
Total Adjustments	-0.024	-0.009	-0.006		
Summary of Adjustments					
Congressional program reductions		-0.009			
Congressional undistributed reductions Congressional rescissions	5				
SBIR/STTR Transfer	-0.014				
Economic Assumptions	0.014				
Other Adjustments	-0.010		-0.006		
Subtotal	-0.024	-0.009	-0.006	•	
Schedule:					
Not Applicable					
Technical:					
Not Applicable					

CLASSIFICATION:

EXHIBIT R-2a, RDT&I	E Project Justification							DATE:			
						T			Februa	ary 2004	
APPROPRIATION/BUDGE			PROGRAM ELEMENT NUMBER AND NAME					NAME			
RDT&E, N /	RDT&E, N / BA-5		0604270N Electronic Warfare Development				chnical Devel	elopment			
D OTHER REAGE	RAM FUNDING SUMMARY:										
D. OTHER PROGR	AM FUNDING SUMMART.								То	Total	
Line Item No. & N	<u>lame</u>	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Cost	
Not Applicable											
E. ACQUISITION ST	RATEGY:										
Not Applicable											

CLASSIFICATION:

PROGRAM ELEMENT 0604270N Electronic Warfa Total PY's Cost 0.91	FY 03 Cost 8 0.451	FY 03 Award Date Var	PROJECT NU Z1742 EW Te FY 04 Cost 0.300	chnical Development FY 04 Award Date	opment	FY 05 Award Date Var	Cost to Complete 0.4	Total Cost	
0604270N Electronic Warfa Total PY s Cost 0.91	FY 03 Cost 8 0.451	FY 03 Award Date Var	Z1742 EW Te FY 04 Cost	chnical Development FY 04 Award Date	FY 05 Cost	Award Date	Complete	Cost 00 2.449 0.000 0.000 0.000 0.000 0.000 0.000 0.000	of Contract
Total PY s Cost 0.91	FY 03 Cost 8 0.451	FY 03 Award Date Var	FY 04 Cost	FY 04 Award Date	FY 05 Cost	Award Date	Complete	Cost 00 2.449 0.000 0.000 0.000 0.000 0.000 0.000 0.000	of Contract
PY s Cost 0.91	Cost 8 0.451	Award Date Var	Cost	Award Date	FY 05 Cost	Award Date	Complete	Cost 00 2.449 0.000 0.000 0.000 0.000 0.000 0.000 0.000	of Contract
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			0.000	Var	0.000	Val	0.4	0.000 0.000 0.000 0.000 0.000	
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								0.000	1
								0.000	
								0.000	
								0.000	
0.40	0.100		0.100		0.100		0.1	10 0.816	i
	0.40	0.406 0.100	0.406 0.100	0.406 0.100 0.100	0.406 0.100 0.100	0.406 0.100 0.100 0.100	0.406 0.100 0.100 0.100	0.406 0.100 0.100 0.100 0.100	0.000

CLASSIFICATION:

										DATE:				
Exhibit R-3 Cost Analysis (pagaPPROPRIATION/BUDGET ACTIV	je 2)											February 200)4	
	İTY		PROGRAM EI	LEMENT				PROJECT N	JMBER AND	NAME				
RDT&E, N / BA-5			0604270N Ele	ctronic Wa	rfare	Development		Z1742 EW T	echnical Dev	elopment				
Cost Categories	Contract	Performing		Total			FY 03		FY 04		FY 05			
	Method	Activity &		PY s		FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value
	& Type	Location		Cost		Cost	Date	Cost	Date	Cost	Date	Complete		of Contract
Developmental Test & Evaluation	Var	Var		0.	700	0.210	Var	0.20) Var	0.20) Var	0.200	1.510	
Operational Test & Evaluation													0.000	
Live Fire Test & Evaluation													0.000	
Test Assets													0.000	
Tooling													0.000	
GFE													0.000	
Award Fees													0.000	
Subtotal T&E				0	.700	0.210		0.20	o	0.20	0	0.200	1.510	
Contractor Engineering Support	Var	Var		0	.300	0.138	Var	0.12) Var	0.12	0 Var	0.120	0.798	
Government Engineering Support	Var	Var		0	.300	0.112	Var	0.10	3 Var	0.11	1 Var	0.111	0.737	
Program Management Support													0.000	
Travel													0.000	
Transportation													0.000	
SBIR Assessment													0.000	
Subtotal Management				0	.600	0.250		0.22	3	0.23	1	0.231	1.535	
Remarks:														
Total Cost				2	.624	1.011		0.82	3	0.91	1	0.941	6.310	
Remarks:														

CLASSIFICATION: Unclassified

EXHIBIT R-2a, RDT&E Project Justification	_	_		_	_		DATE:	_	
							Februa	ry 2004	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT NUM	IBER AND NA	ME	PROJECT NU	JMBER AND I	NAME		
RDT&E, N / BA-6	0604270N EV	V Developmer	nt		W9374 ACETEF and JRAAC				
COST (\$ in Millions)		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	
Project Cost			0.989						
RDT&E Article Not Applicable									

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This project will demonstrate the ability to integrate high fidelity threat simulations located at the Joint Research Analysis and Assessment Center (JRAAC) with the installed system test capability located at the Air Combat Environment Test and Evaluation Facility (ACETEF). Capability will be demonstrated using the existing Secure-Defense Research and Engineering Network (S-DREN).

CLASSIFICATION:

	SIT R-2a, RDT&E Project Justification				DATE: February 2004	
OPRIAT	TION/BUDGET ACTIVITY	PROGRAM ELEMEN	NT NUMBER AND NA	MI PROJECT NUMBER	AND NAME	
E, N /	BA-6	0604270N EW Deve	lopment	W9374 ACETEF and		
omplis	shments/Planned Program					
			FY 03	FY 04	FY 05	
	Accomplishments/Effort/Subtotal Cost		0.000	0.989	0.000	
	RDT&E Articles Quantity					
			FY 03	FY 04	FY 05	
			FY 03	FY 04	FY 05	
	Accomplishments/Effort/Subtotal Cost					
	RDT&E Articles Quantity					
	1V2 IR Alert/Response System Accomplishments/Effort/Subtotal Cost		FY 03	FY 04	FY 05	
	RDT&E Articles Quantity					
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CLASSIFICATION:

PPROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER AND NAME	XHIBIT R-2a, RDT&E F	Project Justification						DATE:	February 2004
(U) C. PROGRAM CHANGE SUMMARY: (U) Funding:	PPROPRIATION/BUDG	GET ACTIVITY	PROGRAM ELEMENT NU	IMBER AND N	AME	AND NAME			
(U) Funding: (U) Funding: FY 2003 FY 2004 FY 2005 FY 2006 Previous Pres Previous President's Budget: 0.000 Current BES/I Current BES/I Fesident's Budget 0.989 Total Adjustments 0.000 0.989 0.000 0.000 Summary of Adjustments 0.000 0.989 0.000 0.000 Summary of Adjustments 0.000 0.989 0.000 0.000 Congressional program reductions 0.001 Congressional undistributed reductions 0.001 Congressional increases 0.001 SBIR/STTR Transfer 0.000 0.989 0.000 0.000 (U) Schedule: Schedul Not Applicable 0.000 0.989 0.000 0.000 (U) Schedule: Schedul Not Applicable 0.000 0.989 0.000 0.000 D. OTHER PROGRAM FUNDING SUMMARY: 1.100 EY 2005 EY 2006 EY 2007 EY 2008 EY 2009 Not Applicable 0.000 0.980 EY 2005 EY 2006 EY 2007 EY 2009 (U) P. E. 0604759, Major Test and Evaluation Investment (U) Technical: E. ACQUISITION STRATEGY: Not Applicable	RDT&E, N /	BA-6	0604270N EW Developme	ent		JRAAC			
Previous Pret Previous President's Budget: Current BESI/Current ESP/President's Budget Total Adjustments Summary of Adjustments Congressional program reductions Congressional undistributed reductions Congressional undistributed reductions Congressional escissions SBIR/STTR Transfer Economic Assumptions Reprogrammings Congressional increases Subtotal (U) Schedule: Schedul Not Applicable Technic Not Applicable D. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name Not Applicable (U) P. E. 0604759, Major Test and Evaluation Investment (U) Technical: E. ACQUISITION STRATEGY: Not Applicable	(U) C. PRO	OGRAM CHANGE SUMMAR	RY:						
Current BES/I Current BES/President's Budget Total Adjustments Summary of Adjustments Congressional program reductions Congressional undistributed reductions Congressional instrater Economic Assumptions Reprogrammings Congressional increases 1.000 1.	(U	U) Funding: (U) Funding:		FY 2003	FY 2004	FY 2005	FY 2006		
Summary of Adjustments Congressional program reductions Congressional undistributed reductions Congressional rescissions SBIR/STTR Transfer Economic Assumptions Reprogrammings Congressional increases Subtotal (U) Schedule: Schedul Not Applicable Technic Not Applicable D. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name Not Applicable (U) P. E. 0604759, Major Test and Evaluation Investment (U) Technical: E. ACQUISITION STRATEGY: Not Applicable	P	Previous Pres Previous Presi	dent's Budget:		0.000				
Summary of Adjustments Congressional program reductions Congressional undistributed reductions Congressional rescissions SBIR/STTR Transfer Economic Assumptions Reprogrammings Congressional increases Subtotal (U) Schedule: Schedul Not Applicable Technic Not Applicable D. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name Not Applicable (U) P. E. 0604759, Major Test and Evaluation Investment (U) Technical: E. ACQUISITION STRATEGY: Not Applicable	C	Current BES/I Current BES/P	resident's Budget		0.989				
Congressional program reductions Congressional undistributed reductions Congressional rescissions SBIR/STTR Transfer Economic Assumptions Reprogrammings Congressional increases Subtotal (U) Schedule: Schedul Not Applicable Technic Not Applicable D. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name Not Applicable (U) P. E. 0604759, Major Test and Evaluation Investment (U) Technical: E. ACQUISITION STRATEGY: Not Applicable	Т	otal Adjustm Total Adjustme	ents	0.000	0.989	0.000	0.000		
Congressional program reductions Congressional undistributed reductions Congressional rescissions SBIR/STTR Transfer Economic Assumptions Reprogrammings Congressional increases Subtotal (U) Schedule: Schedul Not Applicable Technic Not Applicable D. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name Not Applicable (U) P. E. 0604759, Major Test and Evaluation Investment (U) Technical: E. ACQUISITION STRATEGY: Not Applicable		Summary of A	diustments						
Congressional undistributed reductions Congressional rescissions SBIR/STTR Transfer Economic Assumptions Reprogrammings Congressional increases Subtotal (U) Schedule: Schedul Not Applicable Technic Not Applicable D. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name Not Applicable (U) P. E. 0604759, Major Test and Evaluation Investment (U) Technical: E. ACQUISITION STRATEGY: Not Applicable		-	-						
Congressional rescissions SBIR/STTR Transfer Economic Assumptions Reprogrammings Congressional increases Subtotal (U) Schedule: Schedul Not Applicable Technic Not Applicable D. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name Not Applicable (U) P. E. 0604759, Major Test and Evaluation Investment (U) Technical: E. ACQUISITION STRATEGY: Not Applicable		_	. •		-0.011				
SBIR/STTR Transfer Economic Assumptions Reprogrammings Congressional increases Subtotal (U) Schedule: Schedul Not Applicable Technic Not Applicable D. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name Not Applicable (U) P. E. 0604759, Major Test and Evaluation Investment (U) Technical: E. ACQUISITION STRATEGY: Not Applicable									
Reprogrammings Congressional increases Subtotal (U) Schedule: Schedul Not Applicable Technic Not Applicable D. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name Not Applicable (U) P. E. 0604759, Major Test and Evaluation Investment (U) Technical: E. ACQUISITION STRATEGY: Not Applicable									
Congressional increases Subtotal O.000 0.989 0.000 0.000 (U) Schedule: Schedul Not Applicable Technic Not Applicable D. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name Not Applicable (U) P. E. 0604759, Major Test and Evaluation Investment (U) Technical: E. ACQUISITION STRATEGY: Not Applicable		Econo	mic Assumptions						
Subtotal O.000 O.989 O.000 O.000 (U) Schedule: Schedul Not Applicable Technic Not Applicable D. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name Not Applicable (U) P. E. 0604759, Major Test and Evaluation Investment (U) Technical: E. ACQUISITION STRATEGY: Not Applicable		Repro	grammings						
(U) Schedule: Schedul Not Applicable Technic Not Applicable D. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 Not Applicable (U) P. E. 0604759, Major Test and Evaluation Investment (U) Technical: E. ACQUISITION STRATEGY: Not Applicable		Congr	essional increases		1.000				
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D. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name Not Applicable (U) P. E. 0604759, Major Test and Evaluation Investment (U) Technical: E. ACQUISITION STRATEGY: Not Applicable	J)	U) Schedule: Schedul Not Ap	pplicable						
Line Item No. & Name Not Applicable (U) P. E. 0604759, Major Test and Evaluation Investment (U) Technical: E. ACQUISITION STRATEGY: Not Applicable		Technic Not Ap	pplicable						
Line Item No. & Name Not Applicable (U) P. E. 0604759, Major Test and Evaluation Investment (U) Technical: E. ACQUISITION STRATEGY: Not Applicable	D. OTHER	R PROGRAM FUNDING SU	MMARY:						
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(U) Technical: E. ACQUISITION STRATEGY: Not Applicable	· · · · · · · · · · · · · · · · · · ·								
(U) Technical: E. ACQUISITION STRATEGY: Not Applicable	(U) P. E. 0	604759, Major Test and Eva	luation Investment						
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F. MAJOR PERFORMERS: Not Applicable	E. ACQUI	SITION STRATEGY: Not A	Applicable						
1. MAJOR I ERI ORMERO. NOI Applicable	E MAIO	D DEDECORMEDS: Not Ar	nlicable						
	I. WAJO	A LA CAMILAG. NOT AP	γριισαυίο						
R-1 SHOPPING LIST - Item No. 98									