EXHIBIT R-2, RDT&E Budget Item Justification							DATE: February 2004	
APPROPRIATION/BUDGET ACTIVITY **RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-5**					R-1 ITEM NOMENCLATURE 0604270N Electronic Warfare Development			
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.

* $3.8M 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								DATE: **February 2004**
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-5**	PROGRAM ELEMENT NUMBER AND NAME 0604270N Electronic Warfare Development				PROJECT NUMBER AND NAME E0556 EW Counter 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.

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	E0556 EW Counter Response	

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.

R-1 SHOPPING LIST - Item No. 98

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	E0556 EW Counter Response

B. Accomplishments/Planned Program (Cont.)

Low Band Transmitter		FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost		1.893		
RDT&E Articles Quantity				

(U) Continue developmental testing (TECHEVAL). Conduct Operational Assessment (OA) and Operational Test (OPEVAL) of LBT.

Mission Planning		FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost		1.986	1.976	1.974
RDT&E Articles Quantity				

(U) Transition of theTactical EA-6B Mission System (TEAMS) software to the Joint Mission Planning Systems (JMPS).

LINK-16		FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost			1.461	2.376
RDT&E Articles Quantity				

(U) Continue to develop Link-16 capability. Complete testing and correction of deficiencies of the Link-16 modification.

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CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: **February 2004**
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-5**	PROGRAM ELEMENT NUMBER AND NAME 0604270N Electronic Warfare Development	PROJECT NUMBER AND NAME E0556 EW Counter Response

B. 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				

(U) Continue software development and test support for ongoing new threat development and testing in ICAP II and ICAP III, via the Jammer and Techniques Optimization (JATO) program.

FIBER OPTIC		FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost		1.653		
RDT&E Articles Quantity				

(U) Continued development of the Fiber Optic Wave Division Multiplexing in FY 2003 for the developmental testing and the EA-6B lab at Point Mugu.

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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 NAME	
RDT&E, N / BA-5	0604270N Electronic Warfare Development	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 reductions		-0.408	
Congressional rescissions			
SBIR/STTR Transfer	-0.445		
Economic Assumptions			-0.098
Reprogrammings	1.767		
Other Adjustments		-0.870	-4.386
Congressional increases			
Subtotal	1.322	-1.278	-4.484

Schedule:

Not Applicable

Technical:

Not Applicable

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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 NAME	
RDT&E, N / BA-5	0604270N Electronic Warfare Development	E0556 EW Counter Response	

D. OTHER PROGRAM FUNDING SUMMARY:

Line Item No. & Name	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Cost
P-1 # 24, EA-6 Series	314.175	334.778	165.702	102.854	38.694	20.106	19.249	163.700	3,065.758

E. ACQUISITION STRATEGY:

- 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.

- 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:

Exhibit R-3 Cost Analysis (page 1)

DATE: **February 2004**

APPROPRIATION/BUDGET ACTIVITY: **RDT&E, N / BA-5**

PROGRAM ELEMENT: 0604270N Electronic Warfare Development

PROJECT NUMBER AND NAME: E0556 EW Counter Response

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 Dev -LBT	C/FPI	BAE Systems Lansdale, PA	31.567								31.567	31.567
Primary Hdw Develop - ICAP III	C/CPAF	Northrop Grumman, NY	209.528	25.965	11/02	9.811	11/03	5.963	11/04		251.267	251.267
Primary Hdw Develop - Spray Cool	C/CPFF	Isothermal Sys Research	2.612								2.612	2.612
Primary Hdw Develop - Link 16	SS/CPFF	Northrop Grumman, NY	55.797			0.890	02/04				56.687	56.687
Primary Hdw Develop - Min of ICAP I	TBD	Northrop Grumman, NY	2.636								2.636	2.636
Primary Hdw Develop - LOCO GPSI	TBD	SPAWAR	8.786								8.786	
Primary Hdw Develop - Fiber Optic	C/CPFF	DMEA, McClellan AFB		1.082	04/03						1.082	1.082
Aircraft Integration - Spray Cool	C/CPFF	Isotermal Sys Research	6.531								6.531	6.531
Primary Hdw Develop - EA-18G	SS/CPFF	McDonnell Douglas	2.024								2.024	2.024
Systems Engineering	WX	NRL. Wash DC	8.541	0.500	10/02	0.746	10/03	0.488	10/04	Continuing	Continuing	
Systems Engineering	WX	NADEP, JAX	5.227	1.126	10/02	0.492	10/03	0.850	10/04	Continuing	Continuing	
Systems Engineering	WX	NSWC Crane	8.690	1.415	10/02	2.512	10/03	2.800	10/04	Continuing	Continuing	
Systems Engineering	WX	NAWCAD PAX	19.484	8.000	10/02	2.018	10/03	4.954	10/04	Continuing	Continuing	
Systems Engineering	WX	NAWCAD LKE	2.804	0.371	10/02	0.162	10/03	0.200	10/04	Continuing	Continuing	
Systems Engineering	WX	NAWCWD, PT MUGU	23.859	3.973	10/02	3.034	10/03	5.300	10/04	Continuing	Continuing	
Systems Engineering	Various	VARIOUS	45.836	0.364	10/02	3.119	10/03	1.507	10/04	Continuing	Continuing	
											0.000	
											0.000	
Award Fees - ICAP III	C/CPAF	Northrop Grumman	2.474			4.000	12/03	9.106			15.580	15.580
											0.000	
											0.000	
											0.000	
											0.000	
Subtotal Product Development			436.396	42.796		26.784		31.168		Continuing	Continuing	

Remarks:

R-1 SHOPPING LIST - Item No. 98

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)

DATE: **February 2004**

APPROPRIATION/BUDGET ACTIVITY: **RDT&E, N / BA-5**

PROGRAM ELEMENT: 0604270N Electronic Warfare Development

PROJECT NUMBER AND NAME: E0556 EW Counter Response

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	2.200	01/03	2.300	01/04	2.400	01/05	0.000	14.253	14.253
Development Support	Various	MISC	12.009								12.009	
										0.000	0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
Studies and Analysis - AEA Studies	Various	Various	19.694								19.694	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
Subtotal Support			39.056	2.200		2.300		2.400			45.956	

Remarks:

R-1 SHOPPING LIST - Item No. 98

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)

DATE: **February 2004**

APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME
RDT&E, N / BA-5	0604270N Electronic Warfare Development	E0556 EW Counter Response

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
Developmental Testing - ICAP III	WX	NAWCAD, PAX	3.000	3.000	11/02	2.522	11/03				8.522	
											0.000	
Developmental Testing - Mission Plar	WX	NAWCWD, PT MUGU		0.100	12/02	0.100	12/03	0.100	12/04		0.300	
Developmental Testing - Mission Plar	WX	NAWCAD, PAX		0.100	12/02	0.100	12/03	0.100	12/04		0.300	
Developmental Testing - Fiber Optic	WX	NAWCAD, PAX		0.398	07/03						0.398	
Developmental Testing - LBT	WX	NAWCAD, PAX	3.000	0.893	10/02						3.893	
Developmental Testing - Spray Cool	WX	NAWCWD, PT MUGU	1.306								1.306	
Operational Test & Eval: Mission Plar	WX	OPTEVFOR, Norfolk, VA		0.100	12/02	0.100	12/03	0.100	12/04		0.300	
Operational Test & Eval: ICAP III	WX	OPTEVFOR, Norfolk, VA	5.146	3.250	11/02	3.360	11/03				11.756	
Operational Test & Eval: LBT	WX	OPTEVFOR, Norfolk, VA		1.000	11/02						1.000	
Subtotal T&E			12.452	8.841		6.182		0.300			27.775	

Remarks: Funding is required to conduct ICAP III and LBT developmental/operational assessment planning, execution, and reporting.

											0.000	
Government Eng Supt - Mission Planning	WX	NAWCWD, PT MUGU		0.100	12/02	0.100	12/03	0.100	02/05		0.300	
											0.000	
Program Mgmt Supt - Spray Cool	WX	NAWCAD, PAX	1.306								1.306	
											0.000	
											0.000	
Subtotal Management			1.306	0.100		0.100		0.100			1.606	

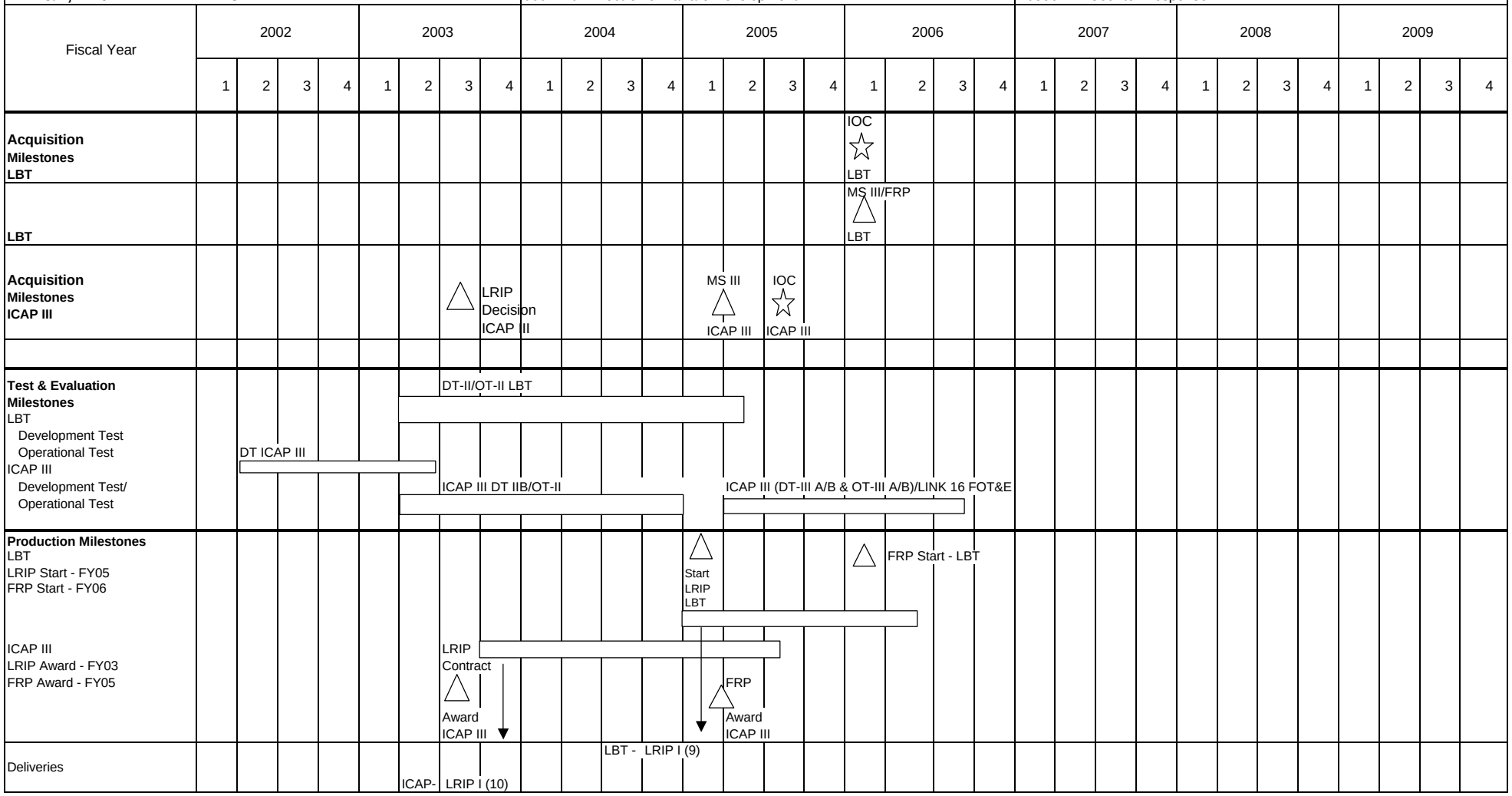
Remarks:

Total Cost			489.210	53.937		35.366		33.968		Continuing	Continuing	

Remarks:

CLASSIFICATION:

EXHIBIT R4, Schedule Profile			DATE: **February 2004**
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N / BA-5	0604270N Electronic Warfare Development	E0556 EW Counter Response	



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

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE: **February 2004**		
APPROPRIATION/BUDGET ACTIVITY **RDT&BA-5**	PROGRAM ELEMENT 0604270N Electronic Warfare Development				PROJECT NUMBER AND NAME E0556 EW Counter Response			
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				
FOT&E 2					1Q-3Q			

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE: **February 2004**
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-5**	PROGRAM ELEMENT NUMBER AND NAME 0604270N Electronic Warfare Development				PROJECT NUMBER AND NAME 2175 TACAIR EW & 2635 IDECM (Congressional 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.

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	2175 TACAIR EW & 2635 IDECM (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.

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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 NAME	
RDT&E, N / BA-5	0604270N Electronic Warfare Development	2175 TACAIR EW & 2635 IDECM (Congressional Add)	

C. PROGRAM CHANGE SUMMARY:

Funding:	FY 2003	FY 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 reductions		-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:

Schedule change from FY2004 President's Budget reflects a program schedule restructuring for IB-2 and IB-3 Testing.

Technical: Not Applicable.

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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 NAME	
RDT&E, N / BA-5	0604270N Electronic Warfare Development	2175 TACAIR EW & 2635 IDECM (Congressional Add)	

D. OTHER PROGRAM FUNDING SUMMARY:

Line Item No. & Name	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Cost
APN-5 Line 49 Common ECM (OSIP 007-03 - IDECM)	4.304	11.918	36.304	49.292	40.204	40.976	41.728	253.4	478.126

E. ACQUISITION STRATEGY:

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.

R-1 SHOPPING LIST - Item No. 98

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)

DATE: **February 2004**

APPROPRIATION/BUDGET ACTIVITY: **RDT&E, N / BA-4**

PROGRAM ELEMENT: 0604270N Electronic Warfare Development

PROJECT NUMBER AND NAME: 2175 TACAIR EW & 2635 IDECM (Congressional Add)

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	231.713
Ancillary Hardware Develop (IMPLC)	SS/CPFF	RAYTHEON/GOLETA, CA	28.312								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)	BOA	BAE/NH	1.550	4.911	03/03	9.922	01/04	3.100	12/04	1.600	21.083	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					46.390	
Subtotal Product Development			431.933	8.227		14.958		8.200		11.600	474.918	

Remarks:

R-1 SHOPPING LIST - Item No. 98

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)

DATE: **February 2004**

APPROPRIATION/BUDGET ACTIVITY: **RDT&E, N / BA-4**

PROGRAM ELEMENT: 0604270N Electronic Warfare Development

PROJECT NUMBER AND NAME: 2175 TACAIR EW & 2635 IDECM (Congressional Add)

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												
Software Development (IDECM)	SS/CPFF	Raytheon, Goleta 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	

Remarks:

R-1 SHOPPING LIST - Item No. 98

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 3)

DATE: **February 2004**

APPROPRIATION/BUDGET ACTIVITY: **RDT&E, N / BA-4**

PROGRAM ELEMENT: 0604270N Electronic Warfare Development

PROJECT NUMBER AND NAME: 2175 TACAIR EW & 2635 IDECM (Congressional Add)

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
ENGINEERING/LOGISTIC SPT	WX/RX	NAWC-AD/PAX	25.047	0.225	03/03	1.700	01/04	1.100	11/04	1.000	29.072	
ENGINEERING TECH FLT TEST	WX/RX	NAWC-WD, CL	36.452	0.822	11/03	2.264	03/04	1.850	12/04	2.000	43.388	
Miscellaneous (efforts < $1M each)	WX/RX	Various	1.608	0.330	Various	0.400	01/04	0.096	12/04		2.434	
Test Support	WX/RX	OPTEVFOR	1.500	1.270	01/03	0.275	12/03	0.158	12/04	2.500	5.703	
Miscellaneous (efforts < $1M each)	WX/RX	NAWC-WD, Pt Mugu		0.400	01/03	0.500	01/04				0.900	
Subtotal T&E			64.607	3.047		5.139		3.204		5.500	81.497	

Remarks:

Contractor Engineering Support												
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	0.240	Various						6.749	
Transportation												
SBIR Assessment												
Subtotal Management			27.893	1.003		0.650		0.700		2.000	32.246	

Remarks:

Total Cost			534.424	12.856		22.057		13.354		19.100	601.791	

Remarks:

R-1 SHOPPING LIST - Item No. 98

CLASSIFICATION:

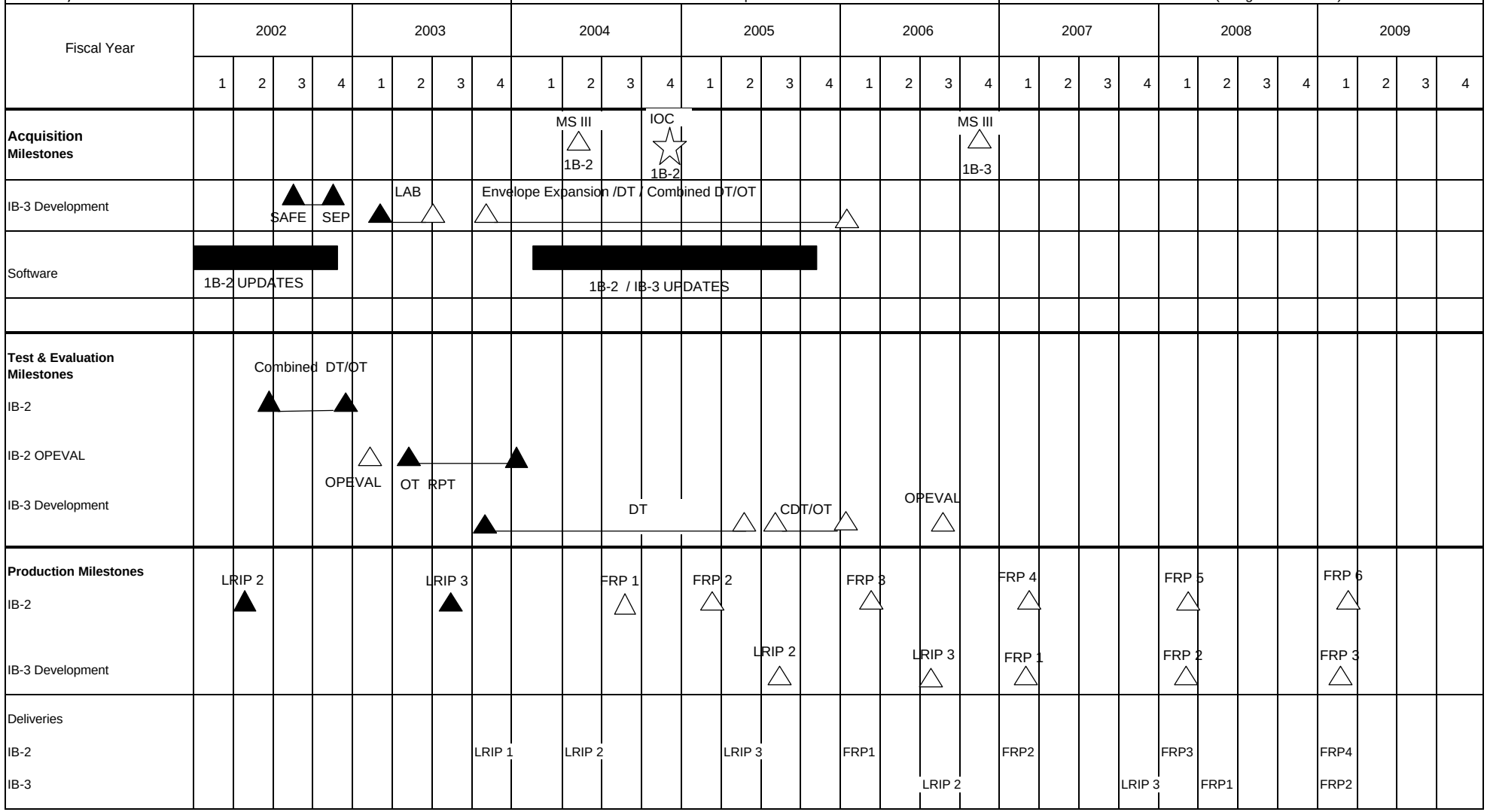
EXHIBIT R4, Schedule Profile

DATE: **February 2004**

APPROPRIATION/BUDGET ACTIVITY: **RDT&E, N / BA-5**

PROGRAM ELEMENT NUMBER AND NAME: 0604270N Electronic Warfare Development

PROJECT NUMBER AND NAME: 2175 TACAIR EW & 2635 IDECM (Congressional Add)



R-1 SHOPPING LIST - Item No. 98

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

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE: **February 2004**		
APPROPRIATION/BUDGET ACTIVITY **RDT&BA-5**	PROGRAM ELEMENT 0604270N Electronic Warfare Development				PROJECT NUMBER AND NAME 2175 TACAIR EW & 2635 IDECM (Congressional 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

CLASSIFICATION: UNCLASSIFIED

EXHIBIT R-2a, RDT&E Project Justification — **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

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.

R-1 SHOPPING LIST - Item No. 98

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	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 de-interleaving 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.

R-1 SHOPPING LIST - Item No. 98

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	R2260 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

(U) Technical:

Not Applicable

R-1 SHOPPING LIST - Item No. 98

CLASSIFICATION:

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

(U) D. OTHER PROGRAM FUNDING SUMMARY:

Not Applicable

(U) E. ACQUISITION STRATEGY:

This is a non-acquisition Research and Development Program.

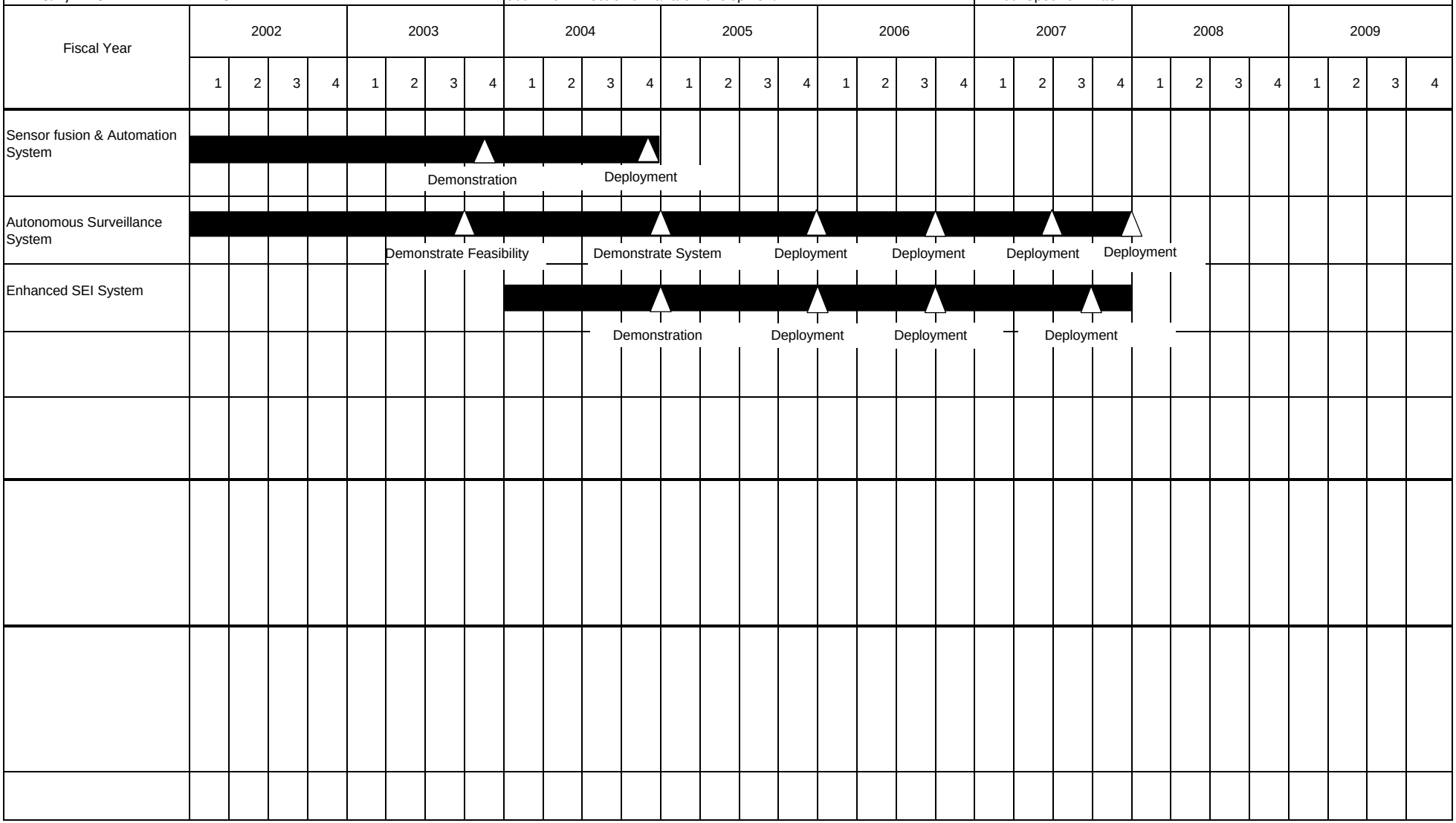
(U) F. MAJOR PERFORMERS:

No performer in this project received more than 15% of the program or $10 million.

R-1 SHOPPING LIST - Item No. 98

CLASSIFICATION:

EXHIBIT R4, Schedule Profile		DATE: **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



R-1 SHOPPING LIST - Item No. 98

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

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE: **February 2004**		
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N BA-5**	PROGRAM ELEMENT 0604270N Electronic Warfare Development				PROJECT NUMBER AND NAME R2260 Specific Emitter ID			
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		

R-1 SHOPPING LIST - Item No. 98

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE: **February 2004**
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-5**	PROGRAM ELEMENT NUMBER AND NAME 0604270N Electronic Warfare Development				PROJECT NUMBER AND NAME Z1742 EW Technical 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.

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

B. Accomplishments/Planned Program

		FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost		0.000	0.000	0.000
RDT&E Articles Quantity		N/A	N/A	N/A

- (U) Completed airborne IW pod test and certification.

		FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost		0.400	0.400	0.400
RDT&E Articles Quantity		N/A	N/A	N/A

- (U) Continue airborne IW jammer development, test and evaluation.

		FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost		0.200	0.200	0.200
RDT&E Articles Quantity		N/A	N/A	N/A

- (U) Continue unmanned aerial vehicle IW payload test and development

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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 NAME
RDT&E, N / BA-5	0604270N Electronic Warfare Development	Z1742 EW Technical Development

B. 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.

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

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

R-1 SHOPPING LIST - Item No. 98

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			
SBIR/STTR Transfer	-0.014		
Economic Assumptions			
Other Adjustments	-0.010		-0.006
Subtotal	-0.024	-0.009	-0.006

Schedule:

Not Applicable

Technical:

Not Applicable

R-1 SHOPPING LIST - Item No. 98

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	

D. OTHER PROGRAM FUNDING SUMMARY:

Line Item No. & Name	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Cost
Not Applicable									

E. ACQUISITION STRATEGY:

Not Applicable
.

R-1 SHOPPING LIST - Item No. 98

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)

DATE: **February 2004**

APPROPRIATION/BUDGET ACTIVITY: **RDT&E, N / BA-5**

PROGRAM ELEMENT: 0604270N Electronic Warfare Development

PROJECT NUMBER AND NAME: Z1742 EW Technical Development

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 Development	Var	Var	0.918	0.451	Var	0.300	Var	0.380	Var	0.400	2.449	
Ancillary Hardware Development											0.000	
Aircraft Integration											0.000	
Ship Integration											0.000	
Ship Suitability											0.000	
Systems Engineering											0.000	
Training Development											0.000	
Licenses											0.000	
Tooling											0.000	
GFE											0.000	
Award Fees											0.000	
Subtotal Product Development			0.918	0.451		0.300		0.380		0.400	2.449	

Remarks:

Development Support											0.000	
Software Development	Var	Var	0.406	0.100	Var	0.100	Var	0.100	Var	0.110	0.816	
Integrated Logistics Support											0.000	
Configuration Management											0.000	
Technical Data											0.000	
Studies & Analyses											0.000	
GFE											0.000	
Award Fees											0.000	
Subtotal Support			0.406	0.100		0.100		0.100		0.110	0.816	

Remarks:

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)

DATE: **February 2004**

APPROPRIATION/BUDGET ACTIVITY: **RDT&E, N / BA-5**

PROGRAM ELEMENT: 0604270N Electronic Warfare Development

PROJECT NUMBER AND NAME: Z1742 EW Technical Development

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
Developmental Test & Evaluation	Var	Var	0.700	0.210	Var	0.200	Var	0.200	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		0.200		0.200		0.200	1.510	
Remarks:												
Contractor Engineering Support	Var	Var	0.300	0.138	Var	0.120	Var	0.120	Var	0.120	0.798	
Government Engineering Support	Var	Var	0.300	0.112	Var	0.103	Var	0.111	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		0.223		0.231		0.231	1.535	
Remarks:												
Total Cost			2.624	1.011		0.823		0.911		0.941	6.310	
Remarks:												

R-1 SHOPPING LIST - Item No. 98

CLASSIFICATION: Unclassified

EXHIBIT R-2a, RDT&E Project Justification							DATE: **February 2004**	
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-6**	PROGRAM ELEMENT NUMBER AND NAME 0604270N EW Development				PROJECT NUMBER AND NAME 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 Articl **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:

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-6	0604270N EW Development	W9374 ACETEF and JRAAC

B. Accomplishments/Planned Program

		FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost		0.000	0.989	0.000
RDT&E Articles Quantity				

Funding for labor and materials to integrate threat simulation at JRAAC into ACETEF.

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

1V2 IR Alert/Response System		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-6	0604270N EW Development	W9374 ACETEF and JRAAC

(U) C. PROGRAM CHANGE SUMMARY:

(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/President's Budget		0.989		
Total Adjustm	Total Adjustments	0.000	0.989	0.000	0.000
	Summary of Adjustments				
	Congressional program reductions				
	Congressional undistributed reductions		-0.011		
	Congressional rescissions				
	SBIR/STTR Transfer				
	Economic Assumptions				
	Reprogrammings				
	Congressional increases		1.000		
	Subtotal	0.000	0.989	0.000	0.000

(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

F. MAJOR PERFORMERS: Not Applicable

R-1 SHOPPING LIST - Item No. 98