CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification						DATE:	DATE:				
						FI	EBRUARY 200	5			
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
RESEARCH DEVELOPMENT TEST & EVALUATION, N	AVY /		BA-5	0604218N Air/Oc	cean Equipment I	Engineering					
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011			
Total PE Cost	2.851	4.461	4.558	5.690	5.841	5.949	6.085	6.195			
2345 Fleet METOC Equipment	2.851	3.144	3.174	4.032	4.152	4.237	4.339	4.421			
2346 METOC Sensor Engineering	0.000	1.317	1.384	1.658	1.689	1.712	1.746	1.774			
Quantity of RDT&E Articles											

- (U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The Air/Ocean Equipment Engineering (AOEE) Program Element provides future mission capabilities to support Naval combat forces. This program engineers and developmentally tests organic and remote sensors, communication interfaces, and processing and display devices. These equipments are engineered to measure, ingest, store, process, distribute and display conditions of the physical environment that are essential to the optimum employment and performance of Naval warfare systems. AOEE also engineers capabilities for shipboard and shore-based tactical systems. A major thrust area for the AOEE program is to provide the engineering development of specialized equipment and measurement capabilities that are intended to monitor specific conditions of the physical environment in hostile and remote areas. With such capabilities, the warfighters' situational awareness of the operational effects of the physical environment are made more certain.
- (U) JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under ENGINEERING & MANUFACTURING DEVELOPMENT because it encompasses engineering and manufacturing development of new end-items prior to production approval decision.

R-1 SHOPPING LIST - Item No.

CLASSIFICATION:

EXHIBIT R-2a, RD7	Γ&E Project Justificat	ion							DATE:	
									FEBRUA	RY 2005
APPROPRIATION/BUD	GET ACTIVITY		PROGRAM ELEM	ENT NUMBER AND	PROJECT NUMBE	BER AND NAME				
RDT&E, N /	BA-5	0604218N	Air/Ocean Equipm	C Equipment						
COS	ST (\$ in Millions)		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost			2.851	3.144	3.174	4.032	4.152	4.237	4.339	4.421
RDT&E Articles Qty	,									

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This project provides for the engineering and manufacturing development of sensors, communication interfaces, and processing and display equipment. This equipment is designed to provide future mission capabilities for warfighters to measure, ingest, store, process, distribute and display meteorological and oceanographic (METOC) parameters and derived products. Major emphasis areas include the Tactical Environmental Support System (TESS), and the associated Navy Integrated Tactical Environmental Subsystem (NITES), the Marine Corps Meteorological Mobile Facility (METMF), the AN/SMQ-11 satellite data receiver/recorder, shipboard weather radar capabilities, and the development of new sensors such as active and passive atmospheric profilers. This project also exploits new GOTS/COTS technologies and web enablement for the Navy's computer-based tactical shipboard and shore capability used to predict and assess the operational effects of the physical environment on the performance of platforms, weapons and sensor systems.

R-1 SHOPPING LIST - Item No.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			FEBRUARY 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAM	E
RDT&E, N / BA 5	0604218N Air Ocean Equipment Engineering	2345 Fleet METOC Equipment	

(U) B. Accomplishments/Planned Program

Object Oriented Database Management	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.824	0.908	0.917	1.166
RDT&E Articles Quantity				

- FY04: Delivered technical report. Transitioned to web-enabled high-speed battlegroup data server.
- FY05: Complete transition and deliver final version to web-enabled high-speed battlegroup data server. Development of Object Oriented Database Management engineering for next generation data server employing expert system techniques.
- FY06: Complete and deliver Object Oriented Database Management system for next generation data server employing expert system techniques.
- FY07: Integrate Object Oriented Database Management system for the next generation data server into the Network infrastructure. Deliver associated documentation.

Fleet System Engineering	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.672	0.741	0.746	0.948
RDT&E Articles Quantity				

- FY04: Delivered test report for Navy Integrated Tactical Environmental Systems (NITES) I Upgrade.
- FY05: Deliver Alternatives Study for the Next Generation Meteorological Mobile Facility.
- FY06: Deliver final study on Next Generation Mini-Rawin System (MRS).
- FY07: Deliver Alternatives Study for the Next Generation mobile Met Sensors.

Lead Laboratory	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.563	0.621	0.626	0.795
RDT&E Articles Quantity				

FY04-07: Lead laboratory conducts annual software integration, assists model developers, and provides technical assistance to other activities.

- FY04: Delivered Quarterly Reports
- FY05: Deliver Quarterly Reports.
- FY06: Deliver Quarterly Reports.
- FY07: Deliver Quarterly Reports.

R-1 SHOPPING LIST - Item No.

CLASSIFICATION:

	tion			FEBRUARY	2005				
PROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER	AND NAME	PROJECT NUMBER AND NAME	PROJECT NUMBER AND NAME					
T&E, N / BA 5	0604218N Air Ocean Equipment	Engineering	2345 Fleet METOC Equipment	2345 Fleet METOC Equipment					
B. Accomplishments/Planned Program									
Off-the-Shelf Technology	FY 04	FY 05	FY 06	FY 07					
Accomplishments/Effort/Subtotal Cost	0.792	0.874	0.885	1.123					
RDT&E Articles Quantity									
	FV04	EVO	FV00	FV.07					
	FY 04	FY 05	FY 06	FY 07					
A 1 - 1 / Eff 1 / O - 1 - 1 - 1 - 0 1	0.000	0.000	0.000	0.000					
Accomplishments/Effort/Subtotal Cost									
RDT&E Articles Quantity									
	FY 04 0.000	FY 05 0.000	FY 06 0.000	FY 07 0.000					

R-1 SHOPPING LIST - Item No.

CLASSIFICATION:

XHIBIT R-2a, RDT&E Project Justification					DATE:	FEBRUARY 2005			
PPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBE	PROJECT NUMBER A	ND NAME						
DT&E, N / BA-5	0604218N Air Ocean Equipme	0604218N Air Ocean Equipment Engineering 2345 Fleet METOC Equip							
(U) C. PROGRAM CHANGE SUMMARY:									
(U) Funding:	FY 2004	FY 2005	FY 2006	FY 2007					
FY05 President's Budget	3.041	3.176	3.193	4.037					
FY06 President's Budget	2.851	3.144	3.174	4.032					
Total Adjustments	-0.190	-0.032	-0.019	-0.005					
Summary of Adjustments									
Congressional Adjustments									
Congressional Recissions		-0.028							
Reprogrammings	-0.127								
Programmatic Adjustments		-0.004	-0.019	-0.005					
Economic Assumptions									
Pricing Adjustments									
SBIR/STTR Transfers	-0.063								
Subtotal	-0.190	-0.032	-0.019	-0.005					

(U) Schedule:

Changes in schedule were made to reflect a higher fidelity with respect to deliverables than FY05 President's Budget Submission to align with Future Mission Capabilities.

Change in Off-the-Shelf Technology in FY 2005 due to an emergent SMQ-11 Antenna Analysis of Alternative requirements. No material impact to program or future procurements.

(U) Technical:

Not Applicable

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE:
		FEBRUARY 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N / BA-5	0604218N Air Ocean Equipment Engineering	2345 Fleet METOC Equipment

(U) D. OTHER PROGRAM FUNDING SUMMARY:

Line Item No. & Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
OPN 4226 METEOROLOGICAL EQUIPMENT	25.230	20.011	25.129	22.018	26.947	30.450	31.099	31.760
RDT&E: PE 0603207N, Air/Ocean Tactical App	21.247	25.186	27.094	32.145	31.265	32.205	31.945	32.617

(U) E. ACQUISITION STRATEGY:

Acquisition, management and contracting strategies are to support engineering and manufacturing development by providing funds to Naval Research Laboratories and miscellaneous contractors, with management oversight by the Program Executive Officer for Command, Control, Communications, Computers and Intelligence and Space (PEO C4I & Space).

(U) F. MAJOR PERFORMERS:

N/A

(U) G. METRICS:

Earned Value Management (EVM) is used for metrics reporting and risk management.

CLASSIFICATION:

									DATE:				
Exhibit R-3 Cost Analysis (pag	je 1)										FEBRUARY 20	005	
APPROPRIATION/BUDGET ACTIV	ITY		PROGRAM EI	LEMENT			PROJECT NU	JMBER AND N	NAME				
RDT&E, N / BA-5			0604218N Ai	r Ocean Equip			2345 Fleet ME						
Cost Categories	Contract	Performing		Total		FY 05		FY 06		FY 07		_	
	Method & Type	Activity & Location		PY s	FY 05 Cost	Award Date	FY 06 Cost	Award Date	FY 07 Cost	Award Date		Total	Target Value of Contract
O-france Danieland		NRL		Cost			1.125		1.439				or Contract
Software Development	WX			7.249							CONT	CONT	
	WX	SSCs		3.291	0.446		0.451		0.570		CONT	CONT	
	СР	RAYTHEON		1.502			0.226		0.286		CONT	CONT	
	NA	MISC		10.722	1.302	NA	1.308	NA	1.657	NA	CONT	CONT	
Subtotal Product Development				22.764	3.082		3.111		3.953		CONT	CONT	
Development Support	СР	SSA/CSC		1.312	0.000		0.000		0.000				
Subtotal Support				1.312	0.000		0.000		0.000		CONT	CONT	
	l.	ı		-		I		1					
Remarks:=													
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CLASSIFICATION:

											DATE:				
Exhibit R-3 Cost Analysis (pag	e 2)												FEBRUARY 20	005	
APPROPRIATION/BUDGET ACTIV	TY		PROGRAM E							MBER AND N					
RDT&E, N / BA-5			0604218N Ai		quipn	nent Engineeri		2345 Fleet	ME	TOC Equipme	ent	•	•		
Cost Categories	Contract Method & Type	Performing Activity & Location		Total PY s Cost		FY 05	FY 05 Award Date	FY 06 Cost	,	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	PD	OPTEVFOR			364	0.062		0.0	_	N/A	0.079		CONT		
Developmental Test & Evaluation		OI ILVI OK		0.	504	0.002	IN//A	0.0	,00	11/73	0.073	IN//A	CONT	00111	
Subtotal T&E				0	364	0.062		0.0	063		0.079		CONT	CONT	
0.1444.1144.444.44				0	000	0.000			000		0.000		0.000	0.000	
Subtotal Management				U	000	0.000		0.0	000		0.000		0.000	0.000	1
Remarks:															
Total Cost				24	440	3.144		3.	174		4.032		CONT	CONT	
Remarks:															

CLASSIFICATION:

EXHIBIT R4, Schedule F	rofile																				DATE	:										
APPROPRIATION/BUDGET											NAM								NUMBE			1E			F	EBR	UARY	2005				
RDT&E, N /	BA-5 2004				0604	<u>4218N</u> 20		ean E	quipment Engineering 2006			2007		2345 Fleet METOC Equip 2008		2009			2010			2011										
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Obj Oriented DBMS	Hiç	h Spe		Data M/VA	Server			Expe		ms/C	DE	Net		ntegrat M/VAL				Er	mergin		S Tech		es			merg		MS Tec		es		
(Database Management System)					AoA	for NE	XGEN	METN	(F																							Ę
Fleet Sys Engineering			peering Jpgrad		ades	_		4	Ad	A for I	ИRS					4								4								
	SW E	ngine	ering	_																	\										 	—
Lead Laboratory																_																
Off-the-Shelf Technology							SMQ	-11 An	enna					Hug	e Data	Set T	ransfe				3/4-	D Visu	al Acc	elerato	rs			Emerg	ing Te	hnolog	jies	
																												-				
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				<u> </u>			<u> </u>		<u> </u>			DD11		ST - It	L.,		88							<u> </u>		<u> </u>					Щ	<u> </u>

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

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE: FE	BRUARY 20	005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT			PROJECT NU	MBER AND N	AME	
RDT&BA-5	0604218N Air	Ocean Equipm	ent Engineerin	g	2345 Fleet ME	TOC Equipme	nt	
Schedule Profile	FY 2004	FY 2005		FY 2007	FY 2008		FY 2010	FY 2011
Obj Oriented Database Management System (DBMS)		2Q		3Q		3Q		3Q
Fleet Sys Engineering	4Q	4Q	4Q	4Q	4Q	4Q	1Q	1Q
Lead Laboratory	4Q	4Q	4Q	4Q	4Q	4Q	4Q	4Q
Off-the-Shelf Technology	1Q		1Q		2Q			
	+	-						
	+	 						
	+	 						
	+							
	+	 						
		- 14 11						

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project	Justification						DATE:					
APPROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER								ER AND NAME				
RDT&E, N / BA-5	0604218	N Air/Ocean Equipm	sor Engineering									
COST (\$ in Millio	ons)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011			
Project Cost		0.000	1.317	1.384	1.658	1.689	1.712	1.746	1.774			
RDT&E Articles Qty												

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This project provides for the engineering and manufacturing development of specialized, high resolution instrumentation systems and measurement capabilities for obtaining near real-time, in-situ meteorological and oceanographic (METOC) data in hostile, remote, and denied areas. The project's objectives are to provide near-term future mission capabilities that are intended to ruggedize and package systems, sensors and instruments to survive the harsh littoral and deep-strike environments and also to meet demanding requirements for timeliness and accuracy. Engineering is performed within this project to ensure that air and safety certification for deployment from fleet aircraft or ships is met and that the proper data formats are employed for integration into existing or planned communications and displays. The end products are sensors and systems that will provide the tactical commander with near real-time, in-situ METOC data for operational use. In addition, this project engineers and integrates sensor capabilities that are intended to obtain unique METOC data that will provide important inputs for predictive models in areas of potential interest.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE:
		FEBRUARY 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N /BA 5	0604218N Air Ocean Equipment Engineering	2346 METOC Sensor Engineering

(U) B. Accomplishments/Planned Program

Unmanned Aerial Vehicle METOC Sensors	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.000	0.173	0.182	0.218
RDT&E Articles Quantity				

FY04: Development suspended in FY04 and program rephased per Congressional diirection.

FY05: Resume Meteorological Sensor engineering development to include micro-miniature temperature, pressure, and humidity sensors.

FY06: Flight test for first generation micro-miniature sensors in operational Unmanned Aerial Vehicles (UAVs). Development of follow-on Meteorological sensors using evolving techniques.

FY07: Develop and demonstrate sensor integration and compatibility with Network. Development of follow-on Meteorological sensors using evolving technologies.

Clandestine Sensors	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.000	0.173	0.182	0.218
RDT&E Articles Quantity				

FY04: Development suspended in FY04 and program rephased per Congressional direction.

FY05: Deliver Initial Sensor Development Execution Plan.

FY06: Deliver Final Technical Report on air-deployed micro-sensors.

FY07: Flight test air-deployed micro-sensors and deliver Final Report. Begin investigating Network integration.

Tactical Battlespace Sensors (formerly MEASURE)	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.000	0.792	0.833	0.997
RDT&E Articles Quantity				

FY04: Development suspended in FY04 and program rephased per Congressional direction.

FY05: Deliver Technical Reports to include post demonstration Lessons Learned. Perform end-to-end Battlespace Sensor Data Acquisition Demonstration, from sensor data acquisition through tactical application. Development of Metoc Air, Surface, Undersea Reporting Equipment (MEASURE) including sensors and processing/distribution devices that detect, characterize and distribute meteorological and oceanographic data from the battlespace.

FY06: Deliver Technical Reports. Development of next generation Acoustic Measurement Buoy.

FY07: Deliver Technical Reports on Buoy.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justificati	1011		DATE:		
				FEBRUARY 2005	
PPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER A	ND NAME	PROJECT NUMBER AND NAME		
DT&E, N / BA 5	0604218N Air Ocean Equipment Er	ngineering	2346 METOC Sensor Engineering		
	· · ·				
) B. Accomplishments/Planned Program					
Unmanned Underwater Vehicle Sensors	FY 04	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	0.000	0.179	0.187	0.225	
RDT&E Articles Quantity					
FY06: Deliver Technical Reports. Demonstrat FY07: Deliver Technical Reports. Deliver initia	te prototype sensors to include Post Demoi	nstration Lessons Learned.	oustic measurement buoy. velopment of sensor -Unmanned Un	derwater Vehicle Sensor (UUVs)	engineering plans.
FY06: Deliver Technical Reports. Demonstrat FY07: Deliver Technical Reports. Deliver initia	te prototype sensors to include Post Demoi	nstration Lessons Learned.	•	derwater Vehicle Sensor (UUVs)	engineering plans.
FY06: Deliver Technical Reports. Demonstrat FY07: Deliver Technical Reports. Deliver initia	te prototype sensors to include Post Demoi	nstration Lessons Learned.	•	derwater Vehicle Sensor (UUVs) FY 07	engineering plans.
FY06: Deliver Technical Reports. Demonstrat FY07: Deliver Technical Reports. Deliver initia Accomplishments/Effort/Subtotal Cost	te prototype sensors to include Post Demoi al engineering plan including Total Ownersh	nstration Lessons Learned. hip Cost (TOC) estimates. D	velopment of sensor -Unmanned Un		engineering plans.
FY07: Deliver Technical Reports. Deliver initia	te prototype sensors to include Post Demoi al engineering plan including Total Ownersh FY 04	nstration Lessons Learned. hip Cost (TOC) estimates. D	velopment of sensor -Unmanned Un	FY 07	engineering plans.
Accomplishments/Effort/Subtotal Cost RDT&E Articles Quantity	te prototype sensors to include Post Demoi al engineering plan including Total Ownersh FY 04 0.000	rstration Lessons Learned. hip Cost (TOC) estimates. Di FY 05 0.000 FY 05	velopment of sensor -Unmanned Un FY 06 0.000 FY 06	FY 07 0.000	engineering plans.
FY07: Deliver Technical Reports. Deliver initia Accomplishments/Effort/Subtotal Cost	te prototype sensors to include Post Demoi al engineering plan including Total Ownersh FY 04 0.000	nstration Lessons Learned. hip Cost (TOC) estimates. Di FY 05 0.000	velopment of sensor -Unmanned Un FY 06 0.000	FY 07 0.000	engineering plans.

R-1 SHOPPING LIST - Item No.

CLASSIFICATION:

KHIBIT R-2a, RDT&E Project Justification					DATE:
DDDDDIATION/DUDGET ACTIVITY	IDDOODAN ELEMENT NUMBER A	NID NIAME	ı	DDO IEOT NII	FEBRUARY 2005
PROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER A				JMBER AND NAME
DT&E, N / BA-5	0604218N Air Ocean Equipment E	ngineering		2346 METOC	Sensor Engineering
(U) C. PROGRAM CHANGE SUMMARY:					
(U) Funding:	FY 2004	FY 2005	FY 2006	FY 2007	
FY05 President's Budget	0.000	1.330	1.370	1.659	
FY06 President's Budget	0.000	1.317	1.384	1.658	
Total Adjustments	0.000	-0.013	0.014	-0.001	-
Summary of Adjustments					
Congressional Adjustments					
Congressional Recissions Reprogrammings		-0.013			
Programmatic Adjustments			0.004	-0.018	
Economic Assumptions			0.013	0.020	
Pricing Adjustments			-0.003	-0.003	
SBIR/STTR Transfers Subtotal	0.000	-0.013	0.014	-0.001	-
(U) Schedule:					
Change in schedules were made to reflect	a higher fidelity with respect to deliverable	es than FY05	President's E	Budget Submis	ssion to align with Future Mission Capabilitie
•					
(U) Technical:					
Not Applicable					
	R-1 SHOPPIN	NG LIST - I	tem No. 88	}	

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Projec	t Justification			DATE:	
				FEBRUARY 2005	
APPROPRIATION/BUDGET ACTIVI	TY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NA	AME	
RDT&E, N /	BA-5	0604218N Air Ocean Equipment Engineering	2346 METOC Sensor Engine	eering	

(U) D. OTHER PROGRAM FUNDING SUMMARY:

	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
RDT&E: PE 0603207N, Air/Ocean Tactical Ap	21.247	25.186	27.094	32.145	31.265	32.205	31.945	32.617

(U) E. ACQUISITION STRATEGY:

Acquisition and contracting strategies are to support engineering and manufacturing development of specialized, high resolution instrumentation systems and measurement techniques for obtaining near real-time in-situ meteorological and oceanographic (METOC) data in denied or remote areas by providing funds to NAVAIR and miscellaneous contractors, with management oversight by the Program Executive Officer for Command, Control, Communications, Computers and Intelligence and Space (PEO C4I & Space).

(U) F. MAJOR PERFORMERS:

N/A

(U). G. METRICS:

Earned Value Management (EVM) is used for metrics reporting and risk management.

CLASSIFICATION:

										DATE:				
Exhibit R-3 Cost Analysis (paç APPROPRIATION/BUDGET ACTIV	ge 1)											FEBRUARY 2	005	
	ΊΤΥ		PROGRAM EI					PROJECT N						
RDT&E, N / BA-5			0604218N Air		Equipr	nent Engineeri	ng	2346 METO		ngineering				
Cost Categories	Contract	Performing		Total			FY 05		FY 06		FY 07			
	Method	Activity &		PY s		FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Target Value
	& Type	Location		Cost		Cost	Date	Cost	Date	Cost	Date	Complete		of Contract
Software Development	WX	NRL			1.314			0.055		0.06		CONT		
	NA	MISC			6.321	1.264	NA	1.329	NA	1.59	NA NA	CONT	CONT	
	1								1					
	1								1					
										+				
												001		
Subtotal Product Development					7.635	1.317		1.384	l I	1.65	3	CONT	CONT	
	1								1					
O. Martal O. marant					0.000	0.000		0.000		0.00		0.000	0.000	
Subtotal Support	1	l			0.000	0.000	'	0.000	וי	0.00	וי	0.000	0.000	
Remarks:														
						DINIOLIOT		00						

CLASSIFICATION:

									DATE:										
Exhibit R-3 Cost Analysi	s (page 2)										FEBRUARY 2	2005							
APPROPRIATION/BUDGET	ACTIVITY		PROGRAM E	LEMENT			PROJECT N	JMBER AND	NAME										
RDT&E, N / BA	·-5		0604218N A	Air Ocean Equi	pment Enginee	ering	2346 METOC	Sensor Eng	gineering										
Cost Categories	Contract Method	Activity &		Total PY s	FY 05	FY 05 Award	FY 06	FY 06 Award	FY 07	FY 07 Award	Cost to	Total	Target Value						
	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract						
													+						
						+				+			+						
						-													
						1				-									
Subtotal T&E				0.000	0.000	D	0.000	D	0.00	0		0.00	0						
Subtotal Management				0.000	0.000)	0.000)	0.00	0		0.00	0						
Remarks:																			
Total Cost				7.635	1.317	7	1.384	1	1.65	8	CON	T CON	т						
Remarks:																			

CLASSIFICATION:

EXHIBIT R4, Schedule Pro	file																								DATE	≣:	F	EBRU	JARY 2	2005		
APPROPRIATION/BUDGET AC						GRAM																	NUMBE									
RDT&E, N /	BA-	5			060	4218N	Air Oc	ean Ed	quipme	nt Eng	ineerii	ng	1								2346	METO	C Sens	sor En	gineering							
Fiscal Year	2004			2005			2006			2007			2008			2009				2010			2011									
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
JAV METOC Sensors	A		М	icro-S	ensor I	evelo	ment	DEM	VAL	A	UA'	V Inte	ration DEM/				Netwo		gration	/AL		\vee	NEXC	SEN S	ensor	Develo		M/VAL				
Unmanned Aerial Vehicle)																												,				T
,	А	utonor	nous S	ensor		eering					\vee	Air D		d Micr	o-sens	ors		∇	letwor	k Integ	ration	\/AI		\vee	NEX	GEN :	Sensor	Develo	1	W/VAL		
Clandestine Sensors						IVI VAL		_						JEIVI, V								VAL							DE	WAL		T
actical Battlespace Sensors			En	d-to-E	rd Inte	grated	Demo	4		\vee	Tac	tical A	coustio D	Buoy			A	Wave	Buoy	Upgra	des DEM	(VAL	\vee	Ne	twork	Integr	ation DEM/\	(AL		A		L
Formerly MEASURE)					<u> </u>						\						\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	٨	/icro A	JV							<u> </u>					4
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* Not required for Budget Activities 1, 2, 3, and 6

CLASSIFICATION:

Exhibit R-4a, Schedule Detail	DATE: FE	DATE: FEBRUARY 2005								
APPROPRIATION/BUDGET ACTIVITY	JMBER AND NAME									
RDT8BA-5	PROGRAM E	Ocean Equipm	ent Engineering	a	2346 METOC Sensor Engineering					
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011		
Unmanned Aerial Vehicle (UAV) METOC Sensors	1Q	4Q	2Q		2Q 4Q			4Q		
Clandestine Sensors Tactical Battlespace Sensors		4Q 4Q			1Q			2Q		
Unmanned Underwater Vehicle (UUV) Sensors	1Q	40	1Q		2Q		1Q	3Q		
Offinatified Officerwater Verticle (OOV) Serisors	IQ		1Q		20		ΙQ	JQ		
		<u> </u>								