

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification							DATE: February 2007	
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY /				R-1 ITEM NOMENCLATURE 0604218N Air/Ocean Equipment Engineering				
				BA-5				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total PE Cost	4.411	5.557	5.162	5.784	6.195	6.817	7.129	6.741
2345 Fleet METOC Equipment	3.068	3.952	3.513	4.096	4.510	5.097	5.377	4.957
2346 METOC Sensor Engineering	1.343	1.605	1.649	1.688	1.685	1.720	1.752	1.784
Quantity of RDT&E Articles								
<p>(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 war fighters' situational awareness of the operational effects of the physical environment are made more certain.</p> <p>This budget reflects changes in investment line description beginning in FY07. This change supports acquisition and development investment lines that support the vision, operations concept, and capability requirements. Changes consolidate and better define RDT&E efforts as well as better reflect the new Commander Naval Meteorological and Oceanographic Command (CNMOC) reorganization.</p> <p>(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.</p>								

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(U) C. PROGRAM CHANGE SUMMARY:				
(U) Funding:	FY 2006	FY 2007	FY 2008	FY 2009
FY07 President's Budget	4.491	5.578	5.731	5.830
FY08 President's Budget	4.411	5.557	5.162	5.784
Total Adjustments	(0.080)	(0.021)	(0.569)	(0.046)
Summary of Adjustments				
Program Adjustments			(0.365)	0.145
SBIR Tax	(0.081)			
CIVPERS/CS Adj for NETWARCOM Enterprise			(0.200)	(0.200)
FY 08 / 09 NWCF Rate Adjustments-NAWC				0.001
FY 08 / 09 NWCF Rate Adjustments-NRL			0.002	0.004
Sec. 8106: Revised Economic Assumptions		(0.021)		
Non-Purchase Inflation Adj.			(0.006)	0.004
Congressional Action 1% Reduction	0.001			
Subtotal	(0.080)	(0.021)	(0.569)	(0.046)
 (U) Schedule:				
The Fleet METOC Equipment (BLI 2345) schedule has been updated to reflect the completion of program Life Cycle Cost Estimate (LCCE) and a major contract award for METMEF NEXGEN, resulting in no schedule slips or delays.				
 (U) Technical:				
Not Applicable				

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2007		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5		PROGRAM ELEMENT NUMBER AND NAME 0604218N Air/Ocean Equipment Engineering				PROJECT NUMBER AND NAME 2345 Fleet METOC Equipment			
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost		3.068	3.952	3.513	4.096	4.510	5.097	5.377	4.957
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), NITES Next Generation (NG), the Marine Corps Meteorological Mobile Facility Replacement (METMF(R)), METMF(R) Next Generation (NG), the Environmental Satellite Receiver Processor (ESRP) (comprised of AN/SMQ-11 (sea configuration) and AN/FMQ-17 (shore configuration)) satellite data receiver/recorder, shipboard weather radar capabilities, and the development of new sensors such as active and passive atmospheric profilers for Aviation Safety/Mini-Rawin System (MRS) Replacement - Next Generation (MRS-NG). This project also exploits new government off-the-shelf (GOTS)/commercial off-the-shelf (COTS) technologies, tactical sensors 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. This project includes development of warfare specific mission planning modules to support unmanned systems with integration of data from environmental and tactical sensor systems, model forecast information and Geospatial Information & Services Databases. This project also supports development of autonomous environmental sensing systems for situational awareness and tactical decision aid/mission planner support, as well as iridium and advanced satellite communication integration in meteorological and oceanographic (METOC) sensor, vehicle control and mission planning systems that will be required to achieve full reach back capability.

This project reflects changes in investment line description beginning in FY07. This change supports acquisition and development investment lines that support the vision, operations concept, and capability requirements. Changes consolidate and better define RDT&E efforts as well as better reflect the new Commander Naval Meteorological and Oceanographic Command (CNMOC) reorganization.

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2007	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA 5	PROGRAM ELEMENT NUMBER AND NAME 0604218N Air Ocean Equipment Engineering	PROJECT NUMBER AND NAME 2345 Fleet METOC Equipment		
(U) B. Accomplishments/Planned Program				
Object Oriented Database Management/ METOC IT Enterprise Environment	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.420	1.600	0.311	0.317
RDT&E Articles Quantity				
<p>FY06 - Completed and delivered Object Oriented Database Management system for next generation data server employing expert system techniques.</p> <p>FY07 - Integrate Object Oriented Database Management system for the next generation data server into the Network infrastructure. Deliver associated documentation. Deliver initial report detailing huge dataset transfer capability into Tactical Environmental Data Services (TED Services).</p> <p>FY08 - Develop software in support of new geostationary and polar orbiting satellite families; Meteorological Satellites (METEOSAT) (Europe), Geostationary Meteorological Satellite (GMS) (Japan) and National Polar Orbiting Environmental Satellite Systems (NPOESS) Preparatory Project (NPP) for ESRP. Develop METOC Iridium reach back architecture and demonstrate.</p> <p>FY09 - Develop software in support of new geostationary and polar orbiting satellite families; NPOESS for ESRP. Continue development of meteorological and oceanographic (METOC) Iridium and initiate performance evaluation.</p>				
Fleet System Engineering/ TDA/Mission Planning	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.420	2.352	2.302	3.779
RDT&E Articles Quantity				
<p>FY06 - Delivered final study on Next Generation Mini-Rawin System (MRS).</p> <p>FY07 - Deliver Alternatives Study for the Next Generation mobile Met Sensors. Continue Lead Laboratory support.</p> <p>FY08 - Conduct feasibility analysis of replacing MRS with automated new technology solution to meet future ship requirements. Complete technological demonstration on candidate MRS replacement system. Develop unmanned system mission modules for forward deployed oceanographers and system operators to improve deployment effectiveness. Begin technical evaluation and selection of autonomous ocean and atmospheric sensor packages; perform sensor package capability demonstration testing. Engineering for NITES NG.</p> <p>FY09 - Select potential MRS replacement technologies. Complete developmental test for selected systems. Complete system selection. Continue development, demonstrate and document unmanned system mission modules for forward deployed oceanographers and system operators to improve deployment effectiveness. Complete technical evaluation of autonomous ocean and atmospheric sensor packages; down-select to most technically feasible options; complete technical demonstrations and related performance testing. Development of NITES NG.</p>				
Lead Laboratory/ TDA/Mission Planning	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.428			
RDT&E Articles Quantity				
<p>FY06 - Delivered Quarterly Reports.</p> <p>FY07 - Effort rolled into the "TDA/Mission Planning" investment line.</p>				

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA 5	PROGRAM ELEMENT NUMBER AND NAME 0604218N Air Ocean Equipment Engineering	PROJECT NUMBER AND NAME 2345 Fleet METOC Equipment		
(U) B. Accomplishments/Planned Program				
Off-the-Shelf Technology/ METOC in IT Enterprise Environment	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.400			
RDT&E Articles Quantity				
<p>FY06 - Delivered SMQ-11 antenna Analysis of Alternatives study. FY07 - Effort rolled into the "METOC IT Enterprise Environment" investment line.</p>				
USMC Acquisition	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	1.400		0.900	
RDT&E Articles Quantity				
<p>FY06 - Developed Marine Corps Meteorological Mobile Facility Replacement (METMF R) Next Generation (NG) Variant I EDM, Variant II prototype. FY08 - Conduct verification & validation testing of METMF (R) NG prototypes and prepare for delivery.</p>				

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5			PROGRAM ELEMENT NUMBER AND NAME 0604218N Air Ocean Equipment Engineering				PROJECT NUMBER AND NAME 2345 Fleet METOC Equipment																				
<p>(U) C. OTHER PROGRAM FUNDING SUMMARY:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Line Item No. & Name</th> <th style="text-align: right; border-bottom: 1px solid black;">FY 2006</th> <th style="text-align: right; border-bottom: 1px solid black;">FY 2007</th> <th style="text-align: right; border-bottom: 1px solid black;">FY 2008</th> <th style="text-align: right; border-bottom: 1px solid black;">FY 2009</th> <th style="text-align: right; border-bottom: 1px solid black;">FY 2010</th> <th style="text-align: right; border-bottom: 1px solid black;">FY 2011</th> <th style="text-align: right; border-bottom: 1px solid black;">FY 2012</th> <th style="text-align: right; border-bottom: 1px solid black;">FY 2013</th> </tr> </thead> <tbody> <tr> <td style="padding-left: 20px;">OPN 4226 METEOROLOGICAL EQUIPMENT</td> <td style="text-align: right;">22.489</td> <td style="text-align: right;">14.341</td> <td style="text-align: right;">12.248</td> <td style="text-align: right;">30.454</td> <td style="text-align: right;">38.064</td> <td style="text-align: right;">38.675</td> <td style="text-align: right;">42.018</td> <td style="text-align: right;">39.259</td> </tr> </tbody> </table> <p style="margin-top: 20px;">Related RDT&E: PE 0603207N, Air/Ocean Tactical Applications</p> <p style="margin-top: 20px;">(U) D. ACQUISITION STRATEGY:</p> <p style="margin-left: 20px;">Acquisition, management and contracting strategies are to support engineering and manufacturing development by providing funds to Naval Research Laboratories (NRL) and miscellaneous contractors, with management oversight by the Program Executive Officer for Command, Control, Communications, Computers and Intelligence and Space (PEO C4I & Space).</p> <p style="margin-top: 20px;">(U) E. MAJOR PERFORMERS:</p> <p style="margin-left: 20px;">N/A</p> <p style="margin-top: 20px;">(U) F. METRICS:</p> <p style="margin-left: 20px;">Earned Value Management (EVM) is used for metrics reporting and risk management.</p>										Line Item No. & Name	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	OPN 4226 METEOROLOGICAL EQUIPMENT	22.489	14.341	12.248	30.454	38.064	38.675	42.018	39.259
Line Item No. & Name	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013																			
OPN 4226 METEOROLOGICAL EQUIPMENT	22.489	14.341	12.248	30.454	38.064	38.675	42.018	39.259																			

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)									DATE: February 2007			
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-5			0604218N Air Ocean Equipment Engineering			2345 Fleet METOC Equipment						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Software Development	WX	NRL	9.524	1.473	NA		NA		NA	CONT	CONT	
	WX	SSCs	4.204	0.590	NA		NA		NA	CONT	CONT	
	CP	RAYTHEON	1.960	0.296	NA	0.311	NA	0.317	NA	CONT	CONT	
	NA	MISC	13.211	1.592	NA		NA		NA	CONT	CONT	
System design and assessment	CP	SeaPort-E - MRS				1.092		1.465				
	CP	SeaPort-E - Acoustic Sensors				0.947		1.564				
	WX	SSCs - Acoustic Sensors				0.381		0.750				
	WX	SSC-METMF-NG				0.781						
Subtotal Product Development			28.899	3.952	0.000	3.513	0.000	4.096		CONT	CONT	
Remarks:												
Development Support	CP	SSA/CSC	1.312									
Subtotal Support			1.312									
Remarks:												

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Exhibit R-3 Cost Analysis (page 2)								DATE: February 2007				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-5			0604218N Air Ocean Equipment Engineering			2345 Fleet METOC Equipment						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	PD	OPTEVFOR	0.394	0.000	N/A							
Subtotal T&E			0.394	0.000	0.000							
Subtotal Management												
Remarks:												
Total Cost			30.605	3.952		3.513		4.096		CONT	CONT	
Remarks:												

CLASSIFICATION:

EXHIBIT R4, Schedule Profile																				DATE: February 2007												
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																	
Fiscal Year	2006				2007				2008				2009				2010				2011				2012				2013			
	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/ METOC in IT Enterprise	Indorp Expert Systems/COE																															
	NEXGEN OODB development				NEXGEN OODB Integrtion																											
									Software Development for ESRP																							
									Iridium -METOC Integration				Iridium-METOC V&V				Advanced SATCOM Integration															
Fleet Sys Engineering/ TDA/Mission Planning	NITES NG								NITES NG				NITES NG																			
	MRS - NG Study								MRS development and test																							
									Advance Environmental Mission Module /sensor integration																							
Lead Laboratory/ TDA/Mission Planning	Quarterly Report																															
Off-the-Shelf Technology/ METOC in IT Enterprise	SMQ-11 Antenna				Dev NPOESS & METEOSAT/GMS Sat Data Processing Capability																											
USMC Acquisition	EDM/Prototype								EDM/V&V Tests																							

Exhibit R-4 Schedule Profile

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2007			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5		PROGRAM ELEMENT NUMBER AND NAME 0604218N Air/Ocean Equipment Engineering			PROJECT NUMBER AND NAME 2346 METOC Sensor Engineering				
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost		1.343	1.605	1.649	1.688	1.685	1.720	1.752	1.784
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 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.

This project reflects changes in investment line description beginning in FY07. This change supports acquisition and development investment lines that support the vision, operations concept, and capability requirements. Changes consolidate and better define RDT&E efforts as well as better reflect the new Commander Naval Meteorological and Oceanographic Command (CNMOC) reorganization.

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2007
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA 5	PROGRAM ELEMENT NUMBER AND NAME 0604218N Air Ocean Equipment Engineering	PROJECT NUMBER AND NAME 2346 METOC Sensor Engineering

(U) B. Accomplishments/Planned Program

Unmanned Aerial Vehicle METOC Sensors/ Sensors/Observing Systems	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.200	1.605	1.649	1.688
RDT&E Articles Quantity				

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

FY07 - Develop and demonstrate sensor integration and compatibility with Network. Development of follow-on UAV Meteorological sensors using evolving technologies. Deliver initial engineering plan including Total Ownership Cost (TOC) estimates. Development of Unmanned Underwater Vehicle (UUV) Sensor engineering plans. Flight test air-deployed micro-sensors and deliver Final Report. Begin investigating Network integration. Deliver Technical Reports on Buoy.

FY08 - Develop Architecture and document UAV Meteorological and Oceanographic sensors using evolving technologies. Proceed with verification and validation tests of air-deployed micro-sensors and deliver Test Report. Extend strategy definition on network integration studies for insitu environmental sensor systems. Upgrade Navy buoys and expand capabilities to acquired hydrodynamic characteristics in the littoral for production center use. Modify existing Naval Oceanographic Office acoustic and oceanographic data collection buoys to allow them to collect geo-acoustic and seabed properties via covert, passive methods and geo-acoustic inversion techniques. Develop follow-on tactical through-the-sensor oceanographic and acoustic data collection system engineering plans.

FY09 - Continue development, finalize documentation and test UAV Meteorological and Oceanographic sensors using evolving technologies. Proceed with verification and validation test of air-deployed micro-sensors and deliver Test Report. Extend investigating Network integration studies for insitu environmental sensor systems. Extend capabilities of buoys to acquired hydrodynamic characteristics in the littoral. Conduct Verification and Validation test on insitu oceanographic and aquatic buoys. Deliver sensor upgrade for prototype acoustic and oceanographic data collection buoy. Test buoy at sea and deliver Final Report. Develop follow-on sensors on mobile acoustic and oceanographic data collection platforms such as ocean gliders and Unmanned Underwater Vehicles (UUVs.) Develop and demonstrate follow-on tactical through-the-sensor oceanographic and acoustic data collection systems aboard Navy platforms.

Clandestine Sensors/ Sensors/Observing Systems	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.200			
RDT&E Articles Quantity				

FY06 - Delivered Final Technical Report on air-deployed micro-sensors.
 FY07 - Efforts incorporated into the "Sensors/Observing Systems" investment line.

Tactical Battlespace Sensors (formerly MEASURE)/ Sensors/Observing Systems	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.751			
RDT&E Articles Quantity				

FY06 - Delivered Technical Reports. Developed next generation sensors.
 FY07 - Efforts incorporated into the "Sensors/Observing Systems" investment line.

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA 5	PROGRAM ELEMENT NUMBER AND NAME 0604218N Air Ocean Equipment Engineering	PROJECT NUMBER AND NAME 2346 METOC Sensor Engineering

(U) B. Accomplishments/Planned Program

Unmanned Underwater Vehicle Sensors/ Sensors/Observing Systems	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.192			
RDT&E Articles Quantity				

FY06 - Delivered Technical Reports. Demonstrated prototype sensors to include Post Demonstration Lessons Learned.
 FY07 - Efforts incorporated into the "Sensors/Observing Systems" investment line.

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5		PROGRAM ELEMENT NUMBER AND NAME 0604218N Air Ocean Equipment Engineering		PROJECT NUMBER AND NAME 2346 METOC Sensor Engineering																														
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Line Item No. & Name	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>																										
Not applicable																																		
Related RDT&E: PE 0603207N, Air/Ocean Tactical Applications																																		

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Exhibit R-3 Cost Analysis (page 1)								DATE: February 2007				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-5			0604218N Air Ocean Equipment Engineering			2346 METOC Sensor Engineering						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Software Development	WX	NRL	1.423	0.067	NA		NA		NA	CONT	CONT	
	NA	MISC	8.863	1.538	NA		NA		NA	CONT	CONT	
UUV Sensors	CP	SeaPort e				1.149		0.931				
		MISC				0.500		0.757				
Subtotal Product Development			10.286	1.605		1.649		1.688		CONT	CONT	
Remarks:												
Total Cost			10.286	1.605		1.649		1.688		CONT	CONT	
Remarks:												

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EXHIBIT R4, Schedule Profile																				DATE: February 2007												
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												
Fiscal Year	2006				2007				2008				2009				2010				2011				2012				2013			
	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
UAV METOC Sensors/ Sensors/Observing Systems	Micro-Sensor Development DEM/VAL																															
Sensors/Observing Systems					Network Integration UAV Integration				LBSF&I				Wave Buoy Upgrades				NEXGEN Sensor Development															
					Air Deployed Micro-sensors UUV Integration				Littoral Sensor & TTS Upgrades				Acoustic Data Collection Buoy Upgrades				T&E Littoral Sensors Buoy Upgrades				Next Generation UUV Integration Accoustic TTS Data Collection System											
Clandestine Sensors/ Sensors/Observing Systems	Autonomous Sensor Engineering																															
Tactical Battlespace Sensors/ Sensors/Observing Systems	End-to-End Integrated Demo																															
UUV Sensors/ Sensors/Observing Systems	UUV Sensor Development DEM/VAL																															

Exhibit R-4 Schedule Profile

