EXHIBIT R-2, RDT&E Budget Item Justification						DATE: February 2008	
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-5				R-1 ITEM NOMENCLATURE 0604218N Air/Ocean Equipment Engineering			
COST ($ in Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total PE Cost	**5.431**	**5.054**	**5.750**	**6.167**	**6.789**	**7.110**	**6.728**
2345 Fleet METOC Equipment	3.853	3.438	4.078	4.478	5.066	5.351	4.935
2346 METOC Sensor Engineering	1.578	1.616	1.672	1.689	1.723	1.759	1.793
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 war fighters' situational awareness of the operational effects of the physical environment are made more certain.

This budget reflects a reorganization by program/project to better support the acquisition process.

EXHIBIT R-2, RDT&E Budget Item Justification	DATE: February 2008
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA 5	**R-1 ITEM NOMENCLATURE** 0604218N Air/Ocean Equipment Engineering

(U) C. PROGRAM CHANGE SUMMARY:

(U) Funding:	FY 2007	FY 2008	FY 2009
FY08/09 President's Budget	5.557	5.162	5.784
FY09 President's Submit	5.431	5.054	5.750
Total Adjustments	(0.126)	0.108	(0.034)
Summary of Adjustments			
Small Business Innovative Research (SBIR) Tax	(0.126)	(0.075)	0.000
Misc. Congressional Adjustments	0.000	(0.033)	0.000
Misc. Adjustments	0.000	0.000	(0.034)
Subtotal	(0.126)	(0.108)	(0.034)

(U) Schedule:

This budget reflects a reorganization by program/project to better support the acquisition process. Schedules are now presented separately for each program/project.

(U) Technical:

Not Applicable

EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2008	
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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	**3.853**	**3.438**	**4.078**	**4.478**	**5.066**	**5.351**	**4.935**
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 (Next), the Marine Corps Meteorological Mobile Facility Replacement (METMF(R)), METMF(R) Next Generation (NEXGEN), the Environmental Satellite Receiver Processor (ESRP) (comprised of AN/SMQ-11 (sea and shore configuration) and AN/FMQ-17 (shore configuration)) satellite data receiver/recorder. 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 budget reflects a reorganization by program/project to better support the acquisition process.

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008
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) B. Accomplishments/Planned Program

Meteorlogical and Oceanographic (METOC) Future Misson Capabilities (FMC)	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost		0.445	1.079
RDT&E Articles Quantity			

FY08 - Begin technical evaluation and selection of autonomous ocean and atmospheric sensor packages; perform sensor package capability demonstration testing. Efforts formerly located in "Fleet System Engineering/TDA/Mission Planning." Develop Hazardous Weather Detection and Discplay Capability (HWDDC), and Tactical Environmental Processor (TEP) data collection and fusion systems.

FY09 - Continuation of FY08 efforts. Conduct system development and demonstration for environmental equipment to include associated engineering and support efforts. Continue development advanced tools and techniques for METOC asset allocation, METOC decision support applications and interfaces to tactical and strategic decision aids. Develop the Hazardous Weather Detection and Display Capability (HWDDC), Tactical Environmental Processor (TEP), and Littoral Battlespace Sensors - Unmanned Undersea Vehicle (LBS-UUV) data collection and fusion systems.

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008
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) B. Accomplishments/Planned Program

Littoral Battlespace Sensing, Fusion and Integration (LBSF&I)	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost		0.117	0.100
RDT&E Articles Quantity			

FY08 - 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. Efforts formerly located in "Fleet System Engineering/TDA/Mission Planning." Develop Littoral Battlespace Sensors - Unmanned Undersea Vehicle (LBS-UUV) data collection and fusion systems.

FY09 - Complete sensor based atmospheric sensing Analysis of Alternatives (AoA) for both stationary and expeditionary applications (including application of UAV's (Unmanned Airborne Vehicle's) and airborne sensors). Complete selection of potential solutions. Complete related testing. Begin PLCCE (Program Life Cycle Cost Estimate). Develop system integration requirements, system performance specifications, and begin CDD (Capabilities Development Document) development. Begin interoperability and system security studies and identify related requirements. Complete UUV prototype development, including the launch and recovery system, the mission planning and tracking and telemetry system, the sensor system, and the shipping/storage system. Begin definition of the LBSF&I UUV Spiral 2 system. Begin development of the Increment 2 system. Conduct studies as required.

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008
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) B. Accomplishments/Planned Program

USMC Meteorological Mobile Facility (Replacement) Next Generation (METMF(R) NEXGEN)	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	3.554	2.374	0.600
RDT&E Articles Quantity			

FY07 - Conducted System Development (Integration) phase activities of METMF(R) NEXGEN (formerly METMF(R) NG) prototypes to include: Systems Requirement Review (SRR), Systems Functional Review (SFR), Preliminary Design Review (PDR), Critical Design Review, Design Readiness Review (DRR). Began System Development (Demonstration) phase activities. Funds realigned from the Future Meteorological and Oceanographic (METOC) Capabilities program in execution.

FY08 - Conduct verification & validation testing of METMF(R) NEXGEN (formerly METMF(R) NG) prototypes and prepare for delivery. Funds realigned from the Future Meteorological and Oceanographic (METOC) Capabilities program. Efforts formerly located in "USMC Acquisition."

FY09 - Conduct Engineering Change Proposals (ECPs) to the METMF(R) NEXGEN (formerly METMF(R) NG) prototype systems.

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008
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) B. Accomplishments/Planned Program

Naval Integrated Tactical Environmental System Next Generation (NITES-Next)	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost		0.197	1.982
RDT&E Articles Quantity			

FY08 - Engineering for Naval Integrated Tactical Environmental System Next Generation (NITES-Next) (formerly NITES NG). Efforts formerly located in "Fleet System Engineering/TDA/Mission Planning."

FY09 - Software test and integration (developed in PE 0603207N, project 2343 Tactical METOC Applications) related to equipment and infrastructure in support of system engineering activities for Naval Integrated Tactical Environmental System Next Generation (NITES-Next). Efforts include extensive integration and test efforts on infrastructure for developmental test and evaluation (DT&E) required in preparation for Milestone decision for NITES-Next. Efforts formerly located in "Fleet System Engineering/TDA/Mission Planning."

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008
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) B. Accomplishments/Planned Program

Environmental Satellite Receiver Processor (ESRP)	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.299	0.305	0.317
RDT&E Articles Quantity			

FY07 - Formerly "Off-the-shelf Technology/METOC in IT Enterprise Environment".

* Continued and completed software integration of new satellite sensors for Geostationary Operational Environmental Satellites (GOES) Low Rate Information Transmission (LRIT) and Alternative Study for the Next Generation mobile Met Sensors.

* Continued software integration of new Satellite Sensors for Polar Orbiting Environmental Satellite (POES) and completed technical support and analysis to determine impacts of future satellite telemetries on the ESRP systems.

FY08 - Continue software integration of new Satellite Sensors and Polar Orbiting Environmental Satellite (POES).

* Commence and complete development and integration to provide new functionality and capability to the ESRP System and provided technical support and analysis to determine impacts of future satellite telemetries on the ESRP systems.

FY09 - Continue and complete software integration of new Satellite Sensors for Polar Orbiting Environmental Satellite (POES).

* Commence Software development in support of Polar Orbiting Environmental Satellite (POES) National Preparatory Project (NPP) for Environmental Satellite Receiver Processors (ESRP).

* Commence and complete engineering research to determine prospective candidate technologies and/or products to augment the capabilities of ESRP and provided technical support and analysis to determine impacts of future satellite telemetries on the ESRP systems.

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008
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) C. OTHER PROGRAM FUNDING SUMMARY:

Line Item No. & Name	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
OPN 4226 METEOROLOGICAL EQUIPMENT	21.387	11.903	24.742	37.674	38.259	41.591	38.879

Related RDT&E: PE 0603207N, Air/Ocean Tactical Applications

(U) D. ACQUISITION STRATEGY:

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 (PEO C4I).

(U) E. MAJOR PERFORMERS:

N/A

(U) F. METRICS:

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

Exhibit R-3 Cost Analysis (page 1)												DATE: February 2008
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5			PROGRAM ELEMENT 0604218N Air Ocean Equipment Engineering			PROJECT NUMBER AND NAME 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/Product Development	WX	NRL	9.524	1.381	N/A		N/A		N/A	CONT	CONT	
	WX	SSCs	4.204	0.590	N/A	1.151	N/A	0.750	N/A	CONT	CONT	
	CP	RAYTHEON	1.960	0.299	N/A	0.300	N/A	0.317	N/A	CONT	CONT	
	NA	MISC	13.211	1.583	N/A		N/A		N/A	CONT	CONT	
	CP	MISC			N/A	1.987	N/A	3.011	N/A	CONT	CONT	
Subtotal Software/Product Development			28.899	3.853	N/A	3.438	N/A	4.078	N/A	CONT	CONT	
Remarks:												
Systems Engineering	CP	SSA/CSC	1.312		N/A		N/A		N/A	CONT	CONT	
Subtotal Systems Engineering			1.312	0.000	N/A	0.000	N/A	0.000	N/A	CONT	CONT	
Remarks:												

Exhibit R-3 Cost Analysis (page 2)										DATE: February 2008		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5			PROGRAM ELEMENT 0604218N Air Ocean Equipment Engineering			PROJECT NUMBER AND NAME 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		N/A		N/A		N/A	CONT	CONT	
Subtotal Developmental T & E			0.394	0.000	N/A	0.000	N/A	0.000	N/A	CONT	CONT	
Remarks:												
Management												
Subtotal Management			0.000	0.000		0.000		0.000				
Remarks:												
Total Cost			30.605	3.853	N/A	3.438	N/A	4.078	N/A	CONT	CONT	

EXHIBIT R4, Schedule Profile | **DATE:** February 2008

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 - Program: Meteorological and Oceanographic (METOC) Future Mission Capabilities (FMC)

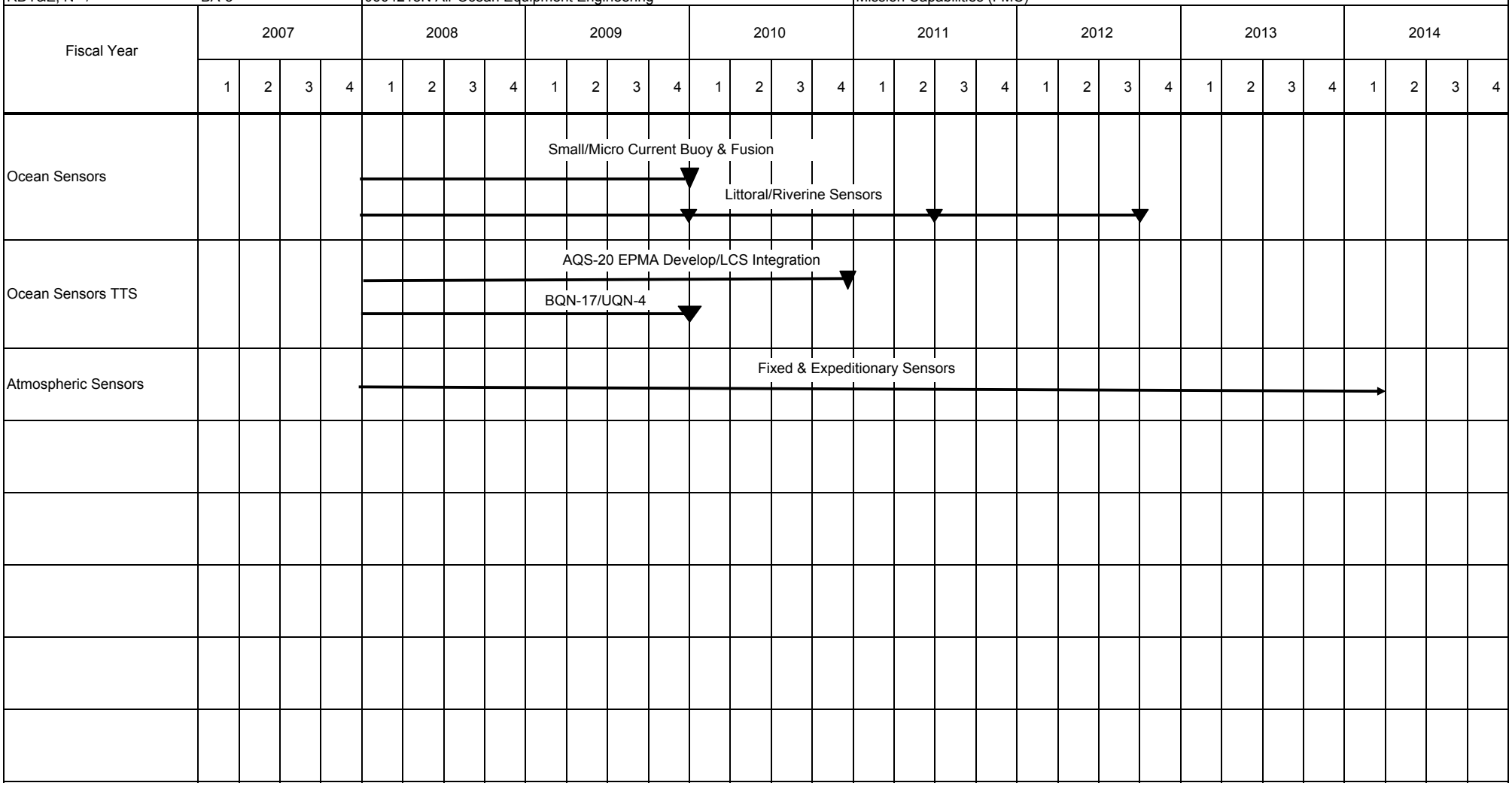

Exhibit R-4a, Schedule Detail					**DATE:** February 2008			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5				**PROJECT NUMBER AND NAME** 2345 Fleet METOC Equipment - Program: Meteorological and Oceanographic (METOC) Future Mission Capabilities (FMC)				
Schedule Profile	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014
Ocean Sensors			4Q		2Q	3Q		
Ocean Sensors TTS			4Q	4Q				
Atmospheric Sensors								

EXHIBIT R4, Schedule Profile																															**DATE:** February 2008
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 - Program: Littoral Battlespace Sensing, Fusion and Integration															
Fiscal Year	2007				2008				2009				2010				2011				2012				2013				2014			
	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
LBSF&I UUV						SDD							BLK II Prototype/EDM Dev												BLK III Prototype/EDM							
								MS C								IOC				FOC		BLK II - MS C										BLK III MS - C

Exhibit R-4a, Schedule Detail					**DATE:** February 2008			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5				**PROJECT NUMBER AND NAME** 2345 Fleet METOC Equipment - Program: Littoral Battlespace Sensing, Fusion and Integration (LBSF&I)				
Schedule Profile	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014
LBSF&I UUV		4Q		1Q	4Q	2Q		4Q

EXHIBIT R4, Schedule Profile			DATE: February 2008
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 - Program: USMC Meteorological Mobile Facility (Replacement) Next Generation (METMF(R) NEXGEN)	

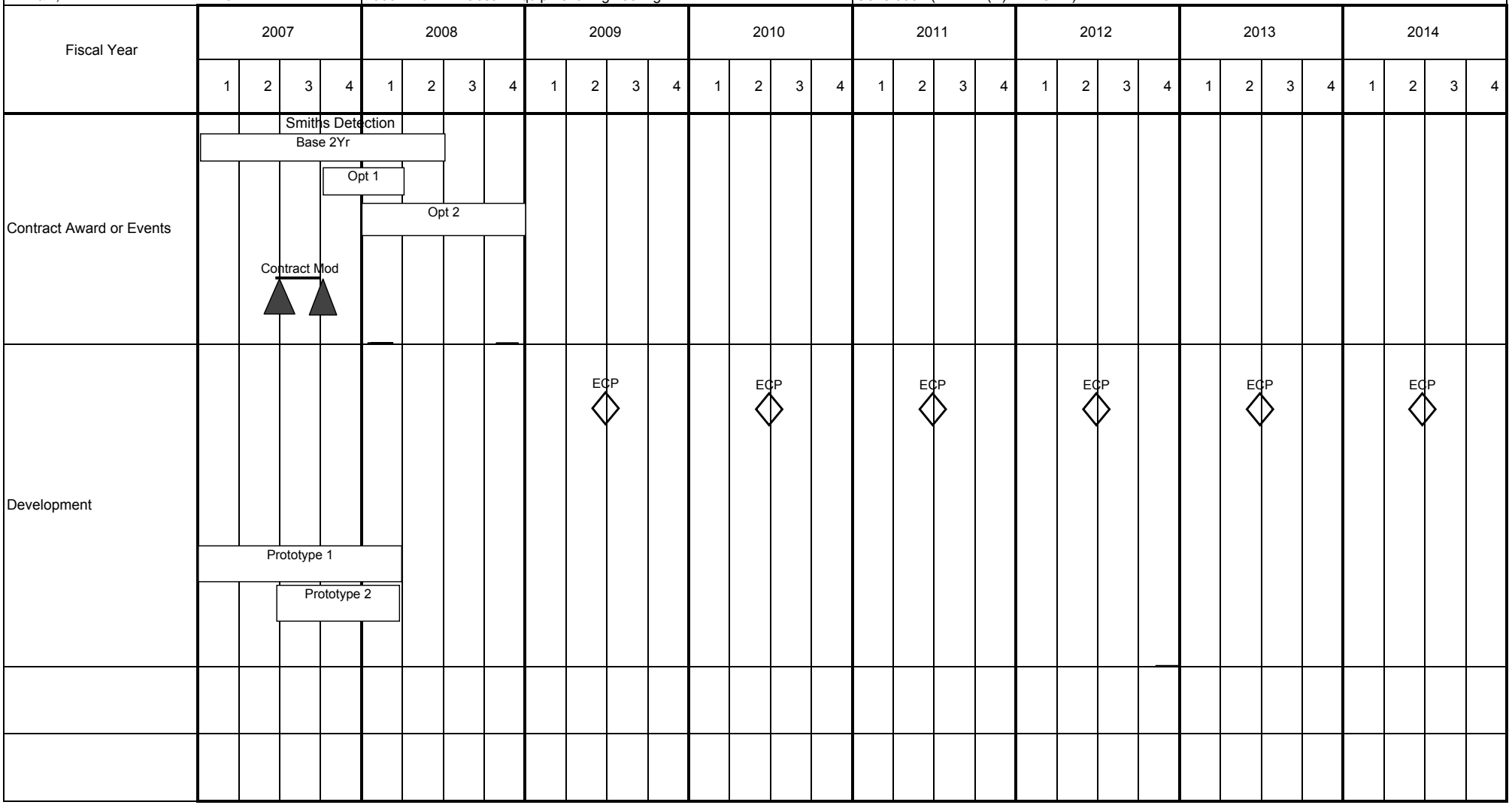

Exhibit R-4a, Schedule Detail					**DATE:** February 2008			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5				**PROJECT NUMBER AND NAME** 2345 Fleet METOC Equipment - Program: USMC Meteorological Mobile				
Schedule Profile	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014
Contract Award or Events								
Base	1Q - 4Q	1Q - 2Q						
Modification	3Q							
Option 1	4Q	1Q						
Option 2		1Q - 4Q						
Development								
Prototype 1	1Q - 4Q	1Q						
Prototype 2	3Q - 4Q	1Q						
Engineering Change Proposal (ECP)		2Q	2Q	2Q	2Q	2Q	2Q	2Q

EXHIBIT R4, Schedule Profile | **DATE:** February 2008

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 - Program: Naval Integrated Tactical Environmental System Next

Fiscal Year	2007				2008				2009				2010				2011				2012				2013				2014			
	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
Infrastructure Engineering & Development									Arch/Design Engineering																							
Development and Test (DT&E)of Netcentric Enterprise Hardware Solutions in NITES-Next											DT&E						Net-centric METOC integration						NITES-next SOA infrastructure									

Exhibit R-4a, Schedule Detail					**DATE:** February 2008			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5				**PROJECT NUMBER AND NAME** 2345 Fleet METOC Equipment - Program: Naval Integrated Tactical Environmental System Next Generation (NITES-Next)				
Schedule Profile	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014
Infrastructure Engineering & Development			1Q, 4Q					
Development and Test (DT&E)of Netcentric Enterprise Hardware Solutions in NITES-Next			2Q	1Q, 2Q	1Q	2Q		

EXHIBIT R4, Schedule Profile

DATE: February 2008

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 - Program: Environmental Satellite Receiver Processor (ESRP)

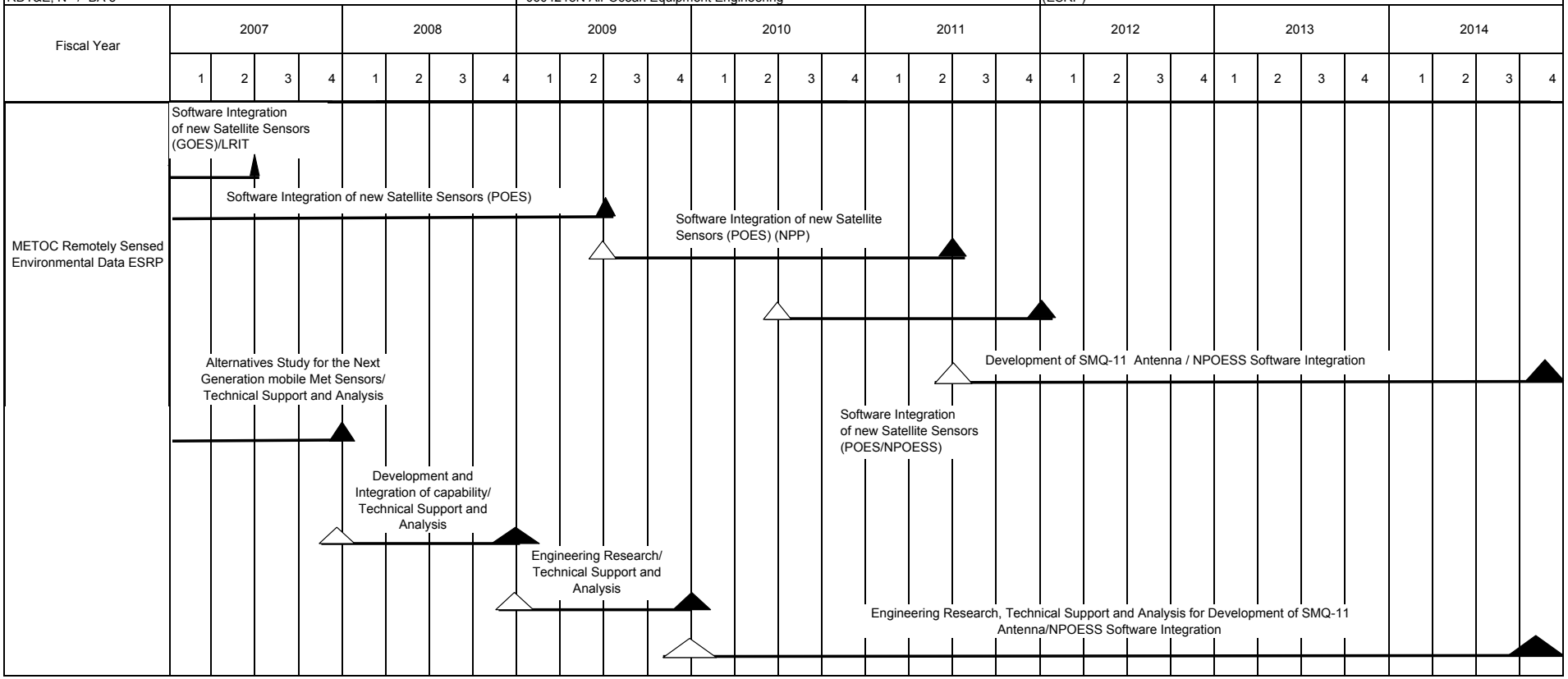

Exhibit R-4a, Schedule Detail					**DATE:** February 2008			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5				**PROJECT NUMBER AND NAME** 2345 Fleet METOC Equipment - Program: Environmental Satellite Receiver Processor (ESRP)				
Schedule Profile	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014
METOC Remotely Sensed Environmental Data ESRP	4Q	4Q	4Q	4Q	4Q	4Q	2Q/4Q	2Q/4Q

EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2008	
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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	**1.578**	**1.616**	**1.672**	**1.689**	**1.723**	**1.759**	**1.793**
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 engineer near-term future mission sensing capabilities that are intended 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 engineered for electronic communications transmissions, human interface displays, and inputs to predictive models.

This budget reflects a reorganization by program/project to better support the acquisition process.

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008
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

Meteorlogical and Oceanographic (METOC) Future Mission Capabilities (FMC)	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	1.480	1.427	1.436
RDT&E Articles Quantity			

FY07 - Developed and demonstrated sensor integration and compatibility with Network. Developed follow-on UAV Meteorological sensors using evolving technologies. Delivered initial engineering plan including Total Ownership Cost (TOC) estimates. Developed of Unmanned Underwater Vehicle (UUV) Sensor engineering plans. Flight tested air-deployed micro-sensors and delivered Final Report. Began investigating Network integration. Efforts formerly located in "Unmanned Aerial Vehicle METOC Sensors/Sensors/Observing Systems."

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. Develop follow-on tactical through-the-sensor oceanographic and acoustic data collection system engineering plans. Efforts formerly located in "Unmanned Aerial Vehicle METOC Sensors/Sensors/Observing Systems."

FY09 - Continue system development and demonstration of METOC manned, unmanned and automated sensors (to include integration of environmental sensors into a larger environmental sensing strategy) Continue the development of advanced sensor system support technologies and techniques for sensor deployment, data processing and performance metrics to optimize sensor performance. Efforts formerly located in "Unmanned Aerial Vehicle METOC Sensors/Sensors/Observing Systems."

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008
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

Tactical Oceanographic Capabilities / UnderSea Warfare (TOC/USW)	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.098	0.189	0.236
RDT&E Articles Quantity			

FY07 - Delivered Technical Reports on Buoy. Efforts formerly located in "Unmanned Aerial Vehicle METOC Sensors/Sensors/Observing Systems."

FY08 - 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. Efforts formerly located in "Unmanned Aerial Vehicle METOC Sensors/Sensors/Observing Systems."

FY09 - Conduct Verification and Validation tests on insitu oceanographic and acoustic buoys. Deliver sensor upgrade for prototype acoustic and oceanographic data collection buoy to expand geoacoustic data collection to active methods. Continue design of an end-to-end ASW Reconstruction and Analysis (R&A) System Architecture. Test buoy at sea and deliver report. Continue modification of existing Naval Oceanographic Office acoustic and oceanographic data collection buoys to allow them to collect geo-acoustic seabed properties via covert, passive methods and geoacoustic inversion techniques to include SESSS and SRFLOS modules. Efforts formerly located in "Unmanned Aerial Vehicle METOC Sensors/Sensors/Observing Systems."

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008
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) C. OTHER PROGRAM FUNDING SUMMARY:

Line Item No. & Name	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013

Not applicable

Related RDT&E: PE 0603207N, Air/Ocean Tactical Applications

(U) D. ACQUISITION STRATEGY:

Acquisition and contracting strategies are to support engineering and manufacturing development of specialized, high resolution instrumentation systems and measurement techniques for obtaining nea 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 (PEO C4I).

(U) E. MAJOR PERFORMERS:

N/A

(U). F. METRICS:

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

Exhibit R-3 Cost Analysis (page 1)												
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5		**PROGRAM ELEMENT** 0604218N Air Ocean Equipment Engineering			**PROJECT NUMBER AND NAME** 2346 METOC Sensor Engineering				**DATE:** February 2008		
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/Product Development	WX	NRL	1.423	0.766	N/A	1.116	N/A	0.915	N/A	CONT	CONT	
	NA	MISC	8.863	0.812	N/A		N/A		N/A	CONT	CONT	
	CP	MISC			N/A	0.500	N/A	0.757	N/A	CONT	CONT	
Subtotal Software/Product Development			10.286	1.578	N/A	1.616	N/A	1.672	N/A	CONT	CONT	
Remarks:												
Systems Engineering												
Subtotal Systems Engineering			0.000	0.000		0.000		0.000				
Remarks:												

Exhibit R-3 Cost Analysis (page 2)												DATE: February 2008
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5			PROGRAM ELEMENT 0604218N Air Ocean Equipment Engineering			PROJECT NUMBER AND NAME 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
Developmental Test & Evaluation												
Subtotal Developmental T & E			0.000	0.000		0.000		0.000				
Remarks:												
Management												
Subtotal Management			0.000	0.000		0.000		0.000				
Remarks:												
Total Cost			10.286	1.578	N/A	1.616	N/A	1.672	N/A	CONT	CONT	

EXHIBIT R4, Schedule Profile																																
																															DATE: February 2008	
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 - Program: Meteorological and Oceanographic (METOC) Future Mission Capabilities (FMC)										
Fiscal Year	2007				2008				2009				2010				2011				2012				2013				2014			
	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
Atmospheric Sensors	Helicopter Temperature & Relative Humidity																Atmospheric Microsensors/Expendables															
Oceanographic Sensors	Wave & current Buoy																Oceanographic Sensing Systems/Microsensors/Expendables															

Exhibit R-4a, Schedule Detail					**DATE:** February 2008			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5				**PROJECT NUMBER AND NAME** 2346 METOC Sensor Engineering - Program: Meteorological and Oceanographic (METOC) Future Mission Capabilities (FMC)				
Schedule Profile	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014
Atmospheric Sensors		2Q	3Q, 4Q	4Q		2Q		
Oceanographic Sensors		2Q	4Q		2Q	4Q		

EXHIBIT R4, Schedule Profile																																
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5					**PROGRAM ELEMENT NUMBER AND NAME** 0604218N Air Ocean Equipment Engineering																				**DATE:** February 2008 **PROJECT NUMBER AND NAME** 2346 METOC Sensor Engineering - Program: Tactical Oceanographic Capabilities / UnderSea Warfare (TOC/USW)											
Fiscal Year	2007				2008				2009				2010				2011				2012				2013				2014			
	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
Acoustic and Oceanographic Data Collection Buoys						Buoy Sea Test				Follow-on Tactical TTS Demo								NEXGEN Acoustic Buoy Development								NEXGEN Acoustic Buoy At Sea Test							

Exhibit R-4a, Schedule Detail					**DATE:** February 2008			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5				**PROJECT NUMBER AND NAME** 2346 METOC Sensor Engineering - Program: Tactical Oceanographic Capabilities / UnderSea Warfare (TOC/USW)				
Schedule Profile	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014
Acoustic and Oceanographic Data Collection Buoys		3Q	4Q		4Q		Q4	

EXHIBIT R-2, RDT&E Budget Item Justification							DATE: February 2008	
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-5						R-1 ITEM NOMENCLATURE 0604221N, P-3 MODERNIZATION PROGRAM		
COST ($ in Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	
Total PE Cost	19.601	4.461	3.589	3.705	3.826	3.896	3.971	
1152 P-3 SENSOR INTEGRATION	16.653	3.078	1.460	1.522	1.574	1.603	1.634	
3016 FATIGUE LIFE MANAGEMENT PROGRAM	1.972	1.383	2.129	2.183	2.252	2.293	2.337	
9999 CONGRESSIONAL ADDS	.976							

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

This program provides for P-3C aircraft systems development in subsurface and surface surveillance, search, detection, localization, classification, attack and communications in support of Sea Shield/Sea Power 21. The P-3C Sensor Integration project integrates advanced and future AntiSubmarine Warfare (ASW) and AntiSurface Warfare (ASuW) sensors, weapons systems, and supporting technology into legacy P-3C systems and phased capabilities upgrades. Also, P-3 Sensor Integration will expand software and hardware technology of P-3 systems to integrate additional sensor and processing capabilities, environmental prediction tools, tactical decision aides, color capabilities and communications to improve aircrew tactical proficiency and battlespace awareness. Sensor Integration is a continuous effort to integrate and test newly evolving ASW and ASuW technologies such as Analyzer Sub-Unit and System Controller Technology Insertions, "Extended Echo Ranging" (EER) family of Multi-Static active systems, Acoustic Rapid COTs Insertion (ARCI), Non-acoustic ASW sensors and systems, and future Technical Refresh insertions for obsolescence and processing improvements. Develop interface control for ASW weapon improvement solutions. The Over the Horizon (OTH) Wideband system will provide the P-3C AIP aircraft the capability to conduct OTH Satellite communications which will allow the on-station aircraft to transmit real time sensitive acoustic intelligence data which will maximize enemy detections, tracking, and engagement opportunities.

Fatigue Life Management Program is required to manage P-3/EP-3 inventory fatigue life and includes ongoing structural analysis, analyzing emergent structural issues, conducting engineering studies, assessing Fleet impact, and applying new technologies such as Non-Destructive Inspection (NDI) techniques.

Congressional Add for Personal Digital Assistant Manintenance Application.

B. PROGRAM CHANGE SUMMARY

Funding:	FY 2007	FY 2008	FY 2009
FY2008 President's Budget:	17.072	8.621	3.630
FY2009 President's Budget:	19.601	4.461	3.589
Total Adjustments	2.529	-4.160	-0.041
Summary of Adjustments			
Congressional Reductions		-4.000	
Congressional Rescissions			
Congressional Undistributed Reductions		-0.031	
Congressional Increases			
Economic Assumptions			-0.013
Miscellaneous Adjustments	2.529	-0.129	-0.028
Subtotal	2.529	-4.160	-0.041

Schedule: Not Applicable

Technical: Not Applicable

EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2008
APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-5	PROGRAM ELEMENT NUMBER AND NAME 0604221N, P-3 MODERNIZATION PROGRAM	PROJECT NUMBER AND NAME 1152, P-3 SENSOR INTEGRATION	

COST ($ in Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	
1152 P-3 SENSOR INTEGRATION	16.653	3.078	1.460	1.522	1.574	1.603	1.634	
RDT&E Articles Qty	3	3						

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This program provides for P-3C aircraft systems development in subsurface and surface surveillance, search, detection, localization, classification, attack and communications in support of Sea Shield/Sea Power 21. The P-3C Sensor Integration project integrates advanced and future ASW and ASuW sensors, weapons systems, and supporting technology into legacy P-3C systems and phased capabilities upgrades. The program also advances Air Acoustic Rapid COTs Insertion (ARCI) efforts by replacing legacy MIL-SPEC UYS-1 with increasingly open, COTS-based architecture. Also, P-3 Sensor Integration will expand software and hardware technology of P-3 systems to integrate additional sensor and processing capabilities, environmental prediction tools, tactical decision aides, color capabilities and communications to improve aircrew tactical proficiency and battlespace awareness. Sensor Integration is a continuous effort to integrate and test newly evolving ASW and ASuW technologies such as Analyzer Sub-Unit (ASU) and System Controller (SC) Technology Insertions, "Extended Echo Ranging" (EER) family of Multi-Static active systems, Acoustic Rapid Cots Insertion (ARCI), Non-acoustic ASW sensors and systems, and future Technical Refresh insertions for obsolescence and processing improvements. Develop interface control for ASW weapon improvement solutions. The Over the Horizon (OTH) Wideband system will provide the P-3C AIP aircraft the capability to conduct OTH Satellite communications which will allow the on-station aircraft to transmit real time sensitive acoustic intelligence data which will maximize enemy detections, tracking and engagement opportunities.

B. ACCOMPLISHMENTS / PLANNED PROGRAM:

P-3 integration of ASW and ASuW sensors/weapon systems	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost	8.058		1.460
RDT&E Articles Qty			

This program provides for P-3C aircraft systems development in subsurface and surface surveillance, search, detection, localization, classification, attack and communications in support of Sea Shield/Sea Power 21. The P-3C Sensor Integration project integrates advanced and future ASW and ASuW sensors, weapons systems, and supporting technology into legacy P-3C systems and phased capabilities upgrades. The program also advances Air ARCI efforts by replacing legacy MIL-SPEC UYS-1 with increasingly open, COTS-based architecture. Also, P-3 Sensor Integration will expand software and hardware technology of P-3 systems to integrate additional sensor and processing capabilities, environmental prediction tools, tactical decision aides, color capabilities and communications to improve aircrew tactical proficiency and battlespace awareness. Sensor Integration is a continuous effort to integrate and test newly evolving ASW and ASuW technologies such as Analyzer Sub-Unit (ASU) and System Controller (SC) Technology Insertions, "Extended Echo Ranging" (EER) family of Multi-Static active systems, Acoustic Rapid Cots Insertion (ARCI), Non-acoustic ASW sensors and systems, and future Technical Refresh insertions for obsolescence and processing improvements. Develop interface control for ASW weapon improvement solutions.

Conduct P-3C OTH Satelitte communications	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost	8.595	3.078	
RDT&E Articles Qty	3	3	

The OTH Wideband program will provide P-3C AIP aircraft the capability to conduct OTH Satelitte communications. Specifically, this program will design, develop, integrate and evaluate this capability on the P-3C AIP aircraft.

C. OTHER PROGRAM FUNDING SUMMARY:
Not Applicable

D. ACQUISITION STRATEGY:
The Air Deployable Active Receiver/Improved Extended Echo Ranging (IEER) Operational Requirements Document (Ser# 297(1)-05-97)) for 1152 was approved on 29 December 1997. The P-3 ASUW Improvement Program (AIP) ORD (Ser#355-88-94) for 2417 was approved on 30 March 1994. The Acquisition Plan (AIR-93-08A Rev 2) was approved on 30 March 1998. The ASR (AIR-ASR-26A Rev 3) was approved 29 Nov 1999 which includes Over the Horizon (OTH) Wideband system.

Exhibit R-3 Cost Analysis (page 1)										DATE: February 2008			
APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-5		PROGRAM ELEMENT 0604221N, P-3 MODERNIZATION PROGRAM				PROJECT NUMBER AND NAME 1152, P-3 SENSOR INTEGRATION							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost to Complete	Total Cost	Target Value of Contract	
PRODUCT DEVELOPMENT													
Primary Hdw Develop-LM St Paul	C-FP	LOCKHEED MARTIN CORP, ST PAUL, MN		6.678	8/07	2.000	10/07				8.678	8.678	
Systems Eng - LOCKHEED-MARTIN	SS-CPFF	LOCKHEED MARTIN CORP, MANASSAS, VA	3.732	7.834	2/07			1.382	1/09	6.364	19.312	19.312	
SUBTOTAL PRODUCT DEVELOPMENT			3.732	14.512		2.000		1.382		6.364	27.990		

Remarks:

SUPPORT													
Software Development-NAWC PAX	WX	NAWCAD, PATUXENT RIVER MD		.253	2/07						.253		
Software Development-NAWC PAX	WX	NAWCAD, PATUXENT RIVER MD	4.027								4.027		
Software Development-NAWC TSD ORLANDO	WX	NAWCTSD, ORLANDO				.060	01/08				.060		
SUBTOTAL SUPPORT			4.027	.253		.060					4.340		

Remarks:

TEST & EVALUATION													
Test Support	WX	NAWCAD, PATUXENT RIVER MD				.768	01/08				.768		
SUBTOTAL TEST & EVALUATION						.768					.768		

Remarks:

MANAGEMENT													
Contractor Eng Support	WX	SPAWARSYSCOM CHARLESTON SC		.133	5/07						.133		
Government Tech Support-SPAWAR	WX	SPAWARSYSCEN SAN DIEGO CA		.524	7/07						.524		
Goverment Eng Sup-NAWC PAX	WX	NAWCAD, PATUXENT RIVER MD				.100	01/08				.100		
Government Eng Sup-SPAWAR	WX	SPAWARSYCEN SAN DIEGO CA		.750	7/07						.750		
Goverment Tech Support	WX	NAWCAD, PATUXENT RIVER MD			2/07	.100	01/08				.100		
Logistics Support	WX	NAWCAD, PATUXENT RIVER MD				.050	01/08				.050		
Program Management Support	WX	NAWCAD, PATUXENT RIVER MD											
Travel - NAWC PAX	WX	NAWCAD, PATUXENT RIVER MD	.200	.481	10/06			.078	10/08	Continuing	Continuing		
SUBTOTAL MANAGEMENT			.200	1.888		.250		.078		Continuing	Continuing		

Remarks:

Total Cost			7.959	16.653		3.078		1.460		Continuing	Continuing		

Remarks:

CLASSIFICATION:

EXHIBIT R4, Schedule Profile			DATE: **February 2008**
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / 5**	PROGRAM ELEMENT NUMBER AND NAME 0604221N, P-3 MODERNIZATION PROGRAM	PROJECT NUMBER AND NAME 1152, P-3 SENSOR INTEGRATION	

Fiscal Year	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				FY 2012				FY 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
EER Multi-Static Active Sensor System Support																												
EER Fleet Technology Insertion																												
P-3 Critical Obsolesence Program Kits & Installation																												
P-3 ARCI program and Future Fleet Technology Insertion																												
OTH Wideband																												

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE: February 2008	
APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-5	PROGRAM ELEMENT 0604221N, P-3 MODERNIZATION PROGRAM				PROJECT NUMBER AND NAME 1152, P-3 SENSOR INTEGRATION		
Schedule Profile	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
EER Multi-Static Active Sensor System Support	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q
EER Multi-Static Fleet Technology Insertion	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q
P-3 Critical Obsolescence Program APN Procurement	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q
P-3 ARCI and Future Fleet Technology Insertion	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q
P-3 OTH Wideband	2Q-4Q	1Q-4Q					

EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2008
APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-5	PROGRAM ELEMENT NUMBER AND NAME 0604221N, P-3 MODERNIZATION PROGRAM	PROJECT NUMBER AND NAME 3016, FATIGUE LIFE MANAGEMENT PROGRAM	

COST ($ in Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	
3016 FATIGUE LIFE MANAGEMENT PROGRAM	1.972	1.383	2.129	2.183	2.252	2.293	2.337	
RDT&E Articles Qty								

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Fatigue Life Management Program is required to manage P-3/EP-3 inventory fatigue life and includes ongoing structural analysis, analyzing emergent structural issues, conducting engineering studies, assessing Fleet impact, and applying new technologies such as Non-Destructive Inspection (NDI) techniques.

B. ACCOMPLISHMENTS / PLANNED PROGRAM:

P-3/EP-3 Fatigue Life Management	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost	1.972	1.383	2.129
RDT&E Articles Qty - Not Applicable			

Fatigue Life Management Program : Manage P-3/EP-3 inventory fatigue life including conducting structural analysis, analyzing structural issues, conducting engineering studies, assessing Fleet impact. Research, test and apply new Fatigue Inspection techniques to the P-3/EP-3 Fleet.

C. OTHER PROGRAM FUNDING SUMMARY:
Not Applicable

D. ACQUISITION STRATEGY:
The Fatigue Life Management Program leverages off of prior work done under P-3 SLAP (2451). The ASUW Improvement Program (AIP) ORD 355-88-94 was approved 30 March 94. PMP #0526 Ser 902D1/6U324405 was approved on 6 Feb 1986. Navy Decision Coordination Paper W-0484-AS was signed 23 Jun 1984. Work will be performed by LMAS and other industry participants along with the NAVAIR Structural Engineering Dept, AIR-4.3. This program supports the 7 June 2003 CNO approved P-3/EP-3 Sustainment Bridge to MMA.

Exhibit R-3 Cost Analysis (page 1)									DATE: February 2008			
APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-5		PROGRAM ELEMENT 0604221N, P-3 MODERNIZATION PROGRAM				PROJECT NUMBER AND NAME 3016, FATIGUE LIFE MANAGEMENT PROGRAM						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost to Complete	Total Cost	Target Value of Contract
PRODUCT DEVELOPMENT												
SYSTEMS ENGINEERING LM	C-CPIF	LOCKHEED MARTIN CORPORATION, MARIETTA, GA	1.585	1.363	2/07	1.068	1/08	1.433	1/09	6.397	11.846	11.846
SUBTOTAL PRODUCT DEVELOPMENT			1.585	1.363		1.068		1.433		6.397	11.846	

Remarks:

SUPPORT												
SUBTOTAL SUPPORT												

Remarks:

TEST & EVALUATION												
SUBTOTAL TEST & EVALUATION												

Remarks:

MANAGEMENT												
Government Eng Sup	WX	VARIOUS	3.261	.609	10/06	.065	1/08	.596	12/08	2.622	7.153	
Travel	WX	NAWCAD, PATUXENT RIVER MD	.183			.250	1/08	.100	12/08	.100	.633	
SUBTOTAL MANAGEMENT			3.444	.609		.315		.696		2.722	7.786	

Remarks:

Total Cost			5.029	1.972		1.383		2.129		9.119	19.632	

Remarks:

CLASSIFICATION:

EXHIBIT R4, Schedule Profile | DATE: **February 2008**

APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N / BA-5	0604221N P-3 Modernization Program	3016, FATIGUE LIFE MANAGEMENT PROGRAM

Fiscal Year	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
Inventory Fatigue Life Management/Sustainment																												

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE: February 2008	
APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-5	PROGRAM ELEMENT 0604221N, P-3 MODERNIZATION PROGRAM				PROJECT NUMBER AND NAME 3016, FATIGUE LIFE MANAGEMENT PROGRAM		
Schedule Profile	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Inventory Fatigue Life Management/Sustainment	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE: **February 2008**	
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-5**	PROGRAM ELEMENT NUMBER AND NAME **0604221N, P-3 MODERNIZATION PROGRAM**				PROJECT NUMBER AND NAME 9999, CONGRESSIONAL ADDS			
COST ($ in Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	
Project Cost	0.976							
RDT&E Articles Qty - Not Applicable								

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Congressional Adds

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: **February 2008**
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N / BA 5	**0604221N, P-3 MODERNIZATION PROGRAM**	9999, CONGRESSIONAL ADDS

B. Accomplishments/Planned Program

9551C	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.976		
RDT&E Articles Quantity - Not Applicable			

PERSONAL DIGITAL ASSISTANT MAINTENANCE APPLICATION

The Personal Digital Assistant Maintenance Application Program (PDA MAP) will reduce paper data collection and manual data entry process associated with scheduled maintenance inspections. PDA MAP will improve effiency, increase data collection accuracy, and reduce Naval Aviation Logistics Command Management Information System (NALCOMIS) data entry time.