

CLASSIFICATION:		UNCLASSIFIED						
EXHIBIT R-2, RDT&E BUDGET ITEM JUSTIFICATION						DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 7		R-1 ITEM NOMENCLATURE 0204311N/INTEGRATED SURVEILLANCE SYSTEM						
COST (In Millions)		FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total PE Cost		40.429	31.138	20.565	25.180	25.286	25.915	26.375
0766 / IUSS Detect/Classif System		37.589	27.561	20.565	25.180	25.286	25.915	26.375
9999 / CONGRESSIONAL ADDS		2.840	3.577	0.000	0.000	0.000	0.000	0.000
*FY 2008 does not include Congressional add of \$1.2M under technical adjustment review								
A. MISSION DESCRIPTION:								
<p>This Program Element (P.E.) comprises five projects - 0766, 9A71N and 9A72N. Project 0766 provides for Integrated Undersea Surveillance Systems (IUSS) Research and Development Projects under the Maritime Surveillance Systems (MSS) Program Office (PEO LMW PMS 485). IUSS provides the Navy with its primary means of submarine detection both nuclear and diesel. The program has undergone a major transition from emphasis on maintaining a large dispersed surveillance force keyed to detection and tracking of submarines to a much smaller force that is effective against modern diesel and nuclear submarines in regional/littoral or broad ocean areas of interest. This transition preserves the ability to continue open ocean surveillance. A portion of project 0766 (FSS) is classified, with details available at a higher classification level. In 2007, Congress provided a Program Increase which supports continued expansion of the ISS Common Processor Automation (ICPA) efforts in line tracking, in-buoy processing, bandwidth management, data fusion/view management and alerting, execution and prosecution aids, and operator interfaces for tactical view manipulation and assessments. Projects 9A71N (High Channel Count Interrogator for Sensor Arrays) and 9A72N (Tunable Laser and Laser Array) are both FY07 Congressional Plus-Ups. Project 9A71N supports development of a universal fiber sensor interrogator required for deploying next generation advanced towed arrays. Project 9A72N supports development of a low cost, non-microphonic, Tunable Laser and Laser Array suitable for driving the interferometric fiber sensor interrogators required for deploying next generation advanced towed arrays. (U) JUSTIFICATION FOR BUDGET ACTIVITY: The IUSS Research and Development project (0766) funds SURTASS Passive and SURTASS Low Frequency Active (LFA) developments. SURTASS provides the mobile, tactical arm of the Integrated Undersea Surveillance System, providing long range detection and cueing for tactical weapons platforms against both diesel and nuclear powered submarines. SURTASS LFA provides an active adjunct capability for IUSS passive and tactical sensors to assist in countering the quieter diesel and nuclear threats of the 1990s and beyond. The LFA tasks are directed at detection of slow quiet threats in harsh littoral waters.</p> <p>(U) In order to continue with reductions in life cycle costs and continue with system-wide consolidation, a short-term goal is to develop a common IUSS processor based on NAVSEA'S Acoustic Rapid COTS Insertion (ARCI) program. The IUSS Integrated Common Processor (ICP) will have the capability to process and display data from all fixed and mobile underwater systems. The IUSS ICP will be used for all new system installations and replace the legacy systems as they reach end of life and require upgrading. Additionally, SURTASS is consolidating on the TB-29A Twin-line array, a variant of the Submarine TB-29A Long line array. This will reduce the number of array variants employed by SURTASS from 3 to 1, and will enable development and logistics cost savings by leveraging off the submarine TB-29A program.</p> <p>(U) Future efforts will be focused on upgrading the LFA capability to the ICP baseline, support bi-static processing utilizing the TL-29A, support activation of fixed sensors, develop smaller, lighter weight acoustic sources for augmentation of small SWATH platforms (under the Compact LFA program), and for replacement of aging LFA sources. Together these efforts support an Active Improvement Program within IUSS.</p>								

CLASSIFICATION:		UNCLASSIFIED							
EXHIBIT R-2, RDT&E BUDGET ITEM JUSTIFICATION (CONTINUATION)			DATE February 2008						
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 7		R-1 ITEM NOMENCLATURE 0204311N/INTEGRATED SURVEILLANCE SYSTEM							
B. PROGRAM CHANGE SUMMARY:									
Funding:	FY 2007	FY 2008	FY 2009						
FY08 President's Budget	40.429	27.740	23.628						
*FY 2008 does not include Congressional add of \$1.2M under technical adjustment review									
FY09 President's Budget	40.429	31.138	20.565						
Total Adjustments	0.000	3.398	-3.063						
Summary of Adjustments:									
MISC Program Adjustments		-0.179	-0.008						
Congressional Adds		3.577							
Reduction RE:PBD 706			-3.071						
C. OTHER PROGRAM FUNDING SUMMARY:									
Line Item No. and Name	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Cost
OPN 2237	7.850	1.260	26.675	23.906	1.190	1.192	1.252	CONT	CONT
D. ACQUISITION STRATEGY:									
Title	FY 2006	FY 2007	FY 2008	FY 2009					
Program Milestones									
Engineering Milestones	Integrated Common Processor(ICP)	ICP	ICP	ICP					
	TL-29A Variant 9/06	CLFA Variant (7/07)	CLFA Variant(9/08)	Bi-Static Variant (9/09)					
T&E Milestones			CLFA SEA TESTS	CLFA SEA TESTS					
		CFLA/TL-29/ICP DT	CLFA/TL-29A/ICP OT&E						
LFA/TL-29A/ICP FOT&E									
Contract Milestones	CLFA			CLFA					
Production									
E. MAJOR PERFORMERS:									
PERFORMER	LOCATION	DESCRIPTION OF WORK			AWARD DATE				
BAE SYSTEMS	Nashua NH	CLFA Engineering Development Model			2006				

CLASSIFICATION: UNCLASSIFIED

EXHIBIT R-2, RDT&E BUDGET ITEM JUSTIFICATION (CONTINUATION) **DATE**
February 2008

APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE**
RD TEN/BA 7 **0204311N/INTEGRATED SURVEILLANCE SYSTEM**

SPAWAR SYSTEMS CENTER	San Diego CA	Technical Direction Agent for LFA/CLFA	Annually
NAVAL FACILITY ENGINEERING SERVICES CENTER	Port Hueneme CA	Technical Direction Agent for Handling Systems	Annually
LOCKHEED MARTIN	Manassas VA	ICP Development	2006
GENERAL DYNAMICS ADVANCED INFORMATION SYS	Anaheim CA	Active ICP Development	2004

*FY 2008 does not include Congressional add of \$1.2M under technical adjustment review

CLASSIFICATION:		UNCLASSIFIED					
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION					DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RDTEN/BA 7		PROGRAM ELEMENT NUMBER AND NAME 0204311N/INTEGRATED SURVEILLANCE SYSTEM			PROJECT NUMBER AND NAME 0766/IUSS Detect/Classif System		
COST (In Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	37.589	27.561	20.565	25.180	25.286	25.915	26.375
RDT&E Articles Qty	0	0	0	0	0	0	0
A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:							
*FY 2008 does not include Congressional add of \$1.2M under technical adjustment review							
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:							
<p>A. (U) This project includes efforts for both FSS* and SURTASS. The SURTASS project comprises the mobile, tactical arm of the Integrated Undersea Surveillance System, providing long range detection and cueing for tactical weapons platforms against both diesel and nuclear powered submarines. SURTASS also provides the undersea surveillance necessary to support regional conflicts and sea-lane protection. SURTASS has experienced recent passive and active success against diesel submarines operating in shallow water. SURTASS is leveraging existing developments and reducing costs by using Non-Developmental Items and commercial hardware; supporting common Navy Undersea Warfare processing and towed array developments; and increasing operator efficiency through computer aided detection and classification processing. SURTASS development efforts include: LFA improvements, common IUSS processing, twin-line array development and processing, improved detection and classification/passive automation to counter quieter threats; additional signal processing and bi-static active capability; integrated active and passive operations; improved Battle Group support; and improved information processing.</p> <p>(U) LFA provides an active adjunct capability for IUSS passive and tactical sensors to counter the quieter diesel and nuclear threats of the 1990s and beyond. The LFA tasks are directed at detection of slow quiet threats in harsh littoral waters. Improvements include TL-29A/LFA integration enhancements; advanced waveforms for littoral/shallow water operations including Doppler sensitive waveforms; and processing algorithms to reduce clutter and reverberation false alarms in shallow water. The LFA task includes development and testing of a compact LFA transmit source array for SWATH-P ships, and upgrade of LFA processing capability into the IUSS Integrated Common Processing architecture. The Integrated Common Processor (ICP) is a derivative of the NAVSEA Submarine Acoustic Rapid COTS Insertion (ARCI) program, and is being augmented for IUSS requirements. Together, the LFA improvements, TL-29A, and the ICP support the SURTASS Active Improvement Program.</p> <p>(U) Functional improvements are delivered to the Fleet in software "Builds", while hardware improvements are delivered through the "Tech Insertion" (TI) process. Software builds are based upon the Advanced Processor Build (APB) process begun by the NAVSEA Submarine USW program. Each APB will introduce new capabilities into SURTASS systems including improved automation, normalizer techniques, adaptive beam forming, and display enhancements. SURTASS participates in the process by contributing algorithms for consideration, supplying peer group members for review of candidate algorithms, participating in test evolutions, and incorporating improved algorithms into operational systems. The "Tech Insertion" process, modelled after the NAVSEA Submarine USW hardware improvement program, delivers processing technology improvements to platforms on roughly a 4-year cycle. Hardware upgrades for active and passive arrays and communications systems will also be provided during "TI" upgrades, but not on a regular planned development cycle as for the processing upgrades.</p>							
B. (U) PEO LMW is involved with the development and maintenance of various IUSS systems. These systems include FDS, FDS-C, SDS, SURTASS, and ADS. The near-term goal is							

CLASSIFICATION:		UNCLASSIFIED
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION (CONTINUATION)		DATE February 2008
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 7	PROGRAM ELEMENT NUMBER AND NAME 0204311N/INTEGRATED SURVEILLANCE SYSTEM	PROJECT NUMBER AND NAME 0766/IUSS Detect/Classif System
<p>development of ICP, which will result in a a single IUSS processor baseline, with minor maintenance efforts continuing on fielded systems. The existing system architecture, signal processing, contact management, and reporting requirements will be evaluated as well as the requirements for future systems. The development of the ICP will take advantage of automation advancement, array technology improvements, and IUSS, submarine, and surface USW system commonality. Additionally, a long term goal is to activate all IUSS sensors as part of a coordinated Active Improvement Program. In 2007, Congress provided a Program Increase which supports continued expansion of the ISS Common Processor</p> <p>*FY 2008 does not include Congressional add of \$1.2M under technical adjustment review</p> <p>Automation (ICPA) efforts in line tracking, in-buoy processing, bandwidth management, data fusion/view management and alerting, execution and prosecution aids, and operator interfaces for tactical view manipulation and assessments.</p> <p>*A portion of project 0766 (FSS) is classified, with details available at a higher classification level.</p>		

CLASSIFICATION:		UNCLASSIFIED	
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION			DATE February 2008
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 7	PROGRAM ELEMENT NUMBER AND NAME 0204311N/INTEGRATED SURVEILLANCE SYSTEM	PROJECT NUMBER AND NAME 0766/IUSS Detect/Classif System	
B. ACCOMPLISHMENTS/PLANNED PROGRAM:			
	FY 2007	FY 2008	FY 2009
N74 ASW Study	0.700	0.700	0.700
RDT&E Articles Quantity	0	0	0
*FY 2008 does not include Congressional add of \$1.2M under technical adjustment review FY07: N74 ASW Study - Continue conducting trade-off and mission studies to explore networked ASW system concepts, investment alternatives and development of a community-wide strategy for common performance models. FY08: N74 ASW Study - Continue conducting trade-off and mission studies to explore networked ASW system concepts, investment alternatives and development of a community-wide strategy for common performance models. FY09: N74 ASW Study - Continue conducting trade-off and mission studies to explore networked ASW system concepts, investment alternatives and development of a community-wide strategy for common performance models.			
	FY 2007	FY 2008	FY 2009
Compact Low Frequency Active	10.200	5.385	6.643
RDT&E Articles Quantity	0	0	0
FY 07: Complete development of Compact Low Frequency Active (CLFA) capability for SWATH-P platforms. Convert first SWATH-P platform to support CLFA system. FY 08: Install EDM and begin at-sea development testing and begin incorporation of final design changes. FY 09: Complete incorporation and at-sea test of final design changes in support of CLFA production program.			
	FY 2007	FY 2008	FY 2009
TB-29A/Twin-Line	1.000	2.000	2.000
RDT&E Articles Quantity	0	0	0
FY 07: Complete developments of Single-Line Tow Capability and fishing net mitigation approaches. FY 08: Development of connectionless array technologies and true fiber-optic arrays. Investigate Twin-line variants of new submarine Long-line arrays for future application to SURTASS. FY 09: Continue development of connectionless array technologies and true fiber-optic arrays. Continue efforts to explore Twin-line variants of new submarine Long-line arrays for future application to SURTASS.			
	FY 2007	FY 2008	FY 2009
SURTASS Active Improvement Program	1.500	1.500	0.000
RDT&E Articles Quantity	0	0	0
FY07: Continue planning for Active Improvement Program (CLFA/LFA/TL-29A/IUSS Common Processor). Continue development of Off-Board Sensor capabilities. FY08: Conduct DT for Active Improvement Program (CLFA/TL-29A/IUSS Common Processor). Continue development of Off-Board Sensor capabilities. Begin development of Bi-static processing capabilities and activation of fixed sensors. FY09: Conduct OT for CLFA/TL-29A/IUSS Common Processor. Conduct FOT&E for LFA/TL-29A/IUSS Common Processor. Continue development of Off-Board Sensor capabilities. Continue			

CLASSIFICATION:		UNCLASSIFIED		
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION (CONTINUATION)				DATE February 2008
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 7	PROGRAM ELEMENT NUMBER AND NAME 0204311N/INTEGRATED SURVEILLANCE SYSTEM	PROJECT NUMBER AND NAME 0766/IUSS Detect/Classif System		
development of Bi-static processing capabilities and activation of fixed sensors.				
		FY 2007	FY 2008	FY 2009
Integrated Common Processor (ICP)		13.111	6.020	4.629
RDT&E Articles Quantity		0	0	0
<p>*FY 2008 does not include Congressional add of \$1.2M under technical adjustment review</p> <p>FY 07: Complete development of SURTASS passive processing capability. Continue development of SURTASS active processing capability. Develop new automation algorithms and techniques for addressing multi-array, high beam count requirements. In FY07, Congress provided a Program Increase which supports continued expansion of the ISS Common Processor Automation (ICPA) efforts in line tracking, in-buoy processing, bandwidth management, data fusion/view management and alerting, execution and prosecution aids, and operator interfaces for tactical view manipulation and assessments.</p> <p>FY 08: Complete development of SURTASS active processing capability. Continue development of new automation algorithms and techniques for addressing multi-array, high beam count requirements. Development of bi-static receive processing for SURTASS. Begin development of littoral LFA improvements.</p> <p>FY 09: Begin development of Active Receive processing capability for fixed sensors. Continue development of new automation algorithms and techniques for addressing multi-array, high beam count requirements. Continue development of Littoral LFA improvements. Begin tech refresh development in coordination with the Submarine Acoustic Rapid COTS Insertion (ARCI) Program Advanced Processing Build (APB) tech refresh.</p>				
		FY 2007	FY 2008	FY 2009
Classified Effort		11.078	11.956	6.593
RDT&E Articles Quantity		0	0	0
A portion of project 0766 (FSS) is classified, with details available at a higher classification level.				

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT R-3, RDT&E PROJECT COST ANALYSIS										DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 7		PROGRAM ELEMENT NUMBER AND NAME 0204311N/INTEGRATED SURVEILLANCE SYSTEM					PROJECT NUMBER AND NAME 0766/IUSS Detect/Classif System					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY Cost (\$000)	FY 2007 Cost (\$000)	FY 2007 Award Date	FY 2008 Cost (\$000)	FY 2008 Award Date	FY 2009 Cost (\$000)	FY 2009 Award Date	Cost to Complete (\$000)	Total Cost (\$000)	Target Value of Contract
IUSS COMMON ARCHITECTURE	CPFF	GDAIS/LM/ARL	46.621	4.242	NOV-06	2.220	NOV-07	2.313	NOV-08	CONT	CONT	0.000
*FY 2008 does not include Congressional add of \$1.2M under technical adjustment review												
ENVIRONMENTAL RESEARCH	WR	ONR / VARIOUS	8.500	0.000		0.000		0.000		0.000	8.500	0.000
ACTIVE IMPROVEMENT/CLFA/LFA	CPFF/AF	BAE / GDAIS / NFESC/VARIOUS	105.224	7.700	NOV-06	4.300	NOV-07	2.400	NOV-08	CONT	CONT	0.000
C4I INTEGRATION	CPFF	VARIOUS	31.768	0.000		0.000		0.000		0.000	31.768	0.000
N74 ASW STUDY	WR/PD	NUWC / APL	5.254	0.700	NOV-06	0.700	NOV-07	0.700	NOV-08	CONT	CONT	0.000
VARIOUS	WR	VARIOUS	47.169	0.000		0.000		0.000		0.000	47.169	0.000
PASSIVE SIGNAL PROCESSING/SONAR	CPFF	APL / GDAIS	2.202	0.000		0.000		0.000		0.000	2.202	0.000
ARRAY IMPROVEMENTS	CPFF/WR	APL / SSC / VARIOUS	3.554	0.500	NOV-06	1.800	NOV-07	1.800	NOV-08	CONT	CONT	0.000
TASK FORCE ASW		VARIOUS	7.000	0.000		0.000		0.000			7.000	0.000
ISS COMMON PROCESSOR AUTOMATION	CPFF/AF	LM/GDAIS/VARIOUS	0.000	8.169	APR-07	0.000		0.000		0.000	8.169	0.000
Subtotal Product Development			257.292	21.311		9.020		7.213		CONT	CONT	0.000
Remarks:												
IUSS COMMON ARCHITECTURE	WR	VARIOUS	1.500	0.200	NOV-06	0.400	NOV-07	0.600	NOV-08	CONT	CONT	0.000
ACTIVE IMPROVEMENTS/CLFA/LFA	CPFF	NGC/VARIOUS	6.120	0.600	NOV-06	0.400	NOV-07	0.200	NOV-08	CONT	CONT	0.000
C4ISR INTEGRATION	CPFF	NGC/VARIOUS	1.819	0.000		0.000		0.000		0.000	1.819	0.000
PASSIVE SIGNAL PROCESSING/SONAR	VAR / WR	VARIOUS	0.600	0.000		0.000		0.000		0.000	0.600	0.000
ARRAY IMPROVEMENTS	VAR / WR	VARIOUS	0.820	0.000		0.000		0.000		0.000	0.820	0.000
VARIOUS	VAR / WR	VARIOUS	1.216	0.000		0.000		0.000		0.000	1.216	0.000
Subtotal Support Costs			12.075	0.800		0.800		0.800		CONT	CONT	0.000
Remarks:												
IUSS COMMON ARCHITECTURE	VAR / WR	VARIOUS	2.337	0.500	NOV-06	0.500	NOV-07	0.500	NOV-08	CONT	CONT	0.000
ACTIVE IMPROVEMENTS/CLFA/LFA	VAR / WR	VARIOUS	11.719	3.000	NOV-06	4.685	NOV-07	4.859	NOV-08	CONT	CONT	0.000
PASSIVE SIGNAL PROCESSING	VAR / WR	VARIOUS	1.300	0.000		0.000		0.000		0.000	1.300	0.000
ARRAY IMPROVEMENTS	VAR / WR	VARIOUS	1.690	0.500	NOV-06	0.200	NOV-07	0.200	NOV-08	CONT	CONT	0.000
Subtotal Test and Evaluation			17.046	4.000		5.385		5.559		CONT	CONT	0.000
Remarks:												

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT R-3, RDT&E PROJECT COST ANALYSIS									DATE February 2008			
APPROPRIATION/BUDGET ACTIVITY RDTEN/BA 7		PROGRAM ELEMENT NUMBER AND NAME 0204311N/INTEGRATED SURVEILLANCE SYSTEM					PROJECT NUMBER AND NAME 0766/IUSS Detect/Classif System					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY Cost (\$000)	FY 2007 Cost (\$000)	FY 2007 Award Date	FY 2008 Cost (\$000)	FY 2008 Award Date	FY 2009 Cost (\$000)	FY 2009 Award Date	Cost to Complete (\$000)	Total Cost (\$000)	Target Value of Contract
ACTIVE IMPROVEMENTS/CLFA/LFA <small>*FY 2008 does not include Congressional add of \$1.2M under technical adjustment review</small>	VAR / WR	VARIOUS	2.817	0.400	NOV-06	0.400	NOV-07	0.400	NOV-08	CONT	CONT	0.000
PASSIVE SIGNAL PROCESSING	VAR / WR	VARIOUS	0.250	0.000		0.000		0.000		0.000	0.250	0.000
ARRAY IMPROVEMENTS	VAR / WR	VARIOUS	0.600	0.000		0.000		0.000		0.000	0.600	0.000
Subtotal Management Services			3.667	0.400		0.400		0.400		CONT	CONT	0.000
Remarks:												
Total Cost (less classified effort)			290.080	26.511		15.605		13.972		CONT	CONT	0.000

CLASSIFICATION:		UNCLASSIFIED	
EXHIBIT R-4, SCHEDULE PROFILE			DATE February 2008
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 7	PROGRAM ELEMENT NUMBER AND NAME 0204311N/INTEGRATED SURVEILLANCE SYSTEM	PROJECT NUMBER AND NAME 0766/IUSS Detect/Classif System	
<p>*FY 2008 does not include Congressional add of \$1.2M under technical adjustment review</p>			

CLASSIFICATION:		UNCLASSIFIED						
EXHIBIT R-4a, SCHEDULE DETAIL						DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 7		PROGRAM ELEMENT NUMBER AND NAME 0204311N/INTEGRATED SURVEILLANCE SYSTEM			PROJECT NUMBER AND NAME 0766/IUSS Detect/Classif System			
Schedule Profile		FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
TB29A TL SYSTEM INSTALLATION / TEST		1Q						
FOT & E (TB29A TL / ICP / LFA)				1Q - 2Q				
CLFA DEVELOPMENT TEST SHAKEDOWN			4Q	1Q				
*FY 2008 does not include Congressional add of \$1.2M under technical adjustment review								
CLFA DEVELOPMENT EVALUATION				1Q - 2Q				
ICP PRODUCTION SYSTEMS		1Q - 3Q						
CLFA PRODUCTION SYSTEMS				1Q - 4Q	1Q - 4Q	1Q		
TECH INSERTION					1Q - 4Q			1Q - 4Q

CLASSIFICATION:		UNCLASSIFIED	
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION			DATE February 2008
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 7	PROGRAM ELEMENT NUMBER AND NAME 0204311N/INTEGRATED SURVEILLANCE SYSTEM	PROJECT NUMBER AND NAME 9999/CONGRESSIONAL ADDS	
B. ACCOMPLISHMENTS/PLANNED PROGRAM:			
	FY 2007	FY 2008	FY 2009
9A71N/High Channel Count Interrogator For Sensor Arrays	1.445	0.000	0.000
RDT&E Articles Quantity	0	0	0
*FY 2008 does not include Congressional add of \$1.2M under technical adjustment review Funding for development of a universal fiber sensor interrogator that is required for deploying next generation advanced towed arrays in support of multiple Navy undersea surveillance programs.			
	FY 2007	FY 2008	FY 2009
9A72N/Tunable Laser and Laser Array	1.395	0.000	0.000
RDT&E Articles Quantity	0	0	0
Funding for development of a low cost, non-microphonic, Tunable Laser and Laser Array suitable for driving the interferometric fiber sensor interrogators that are required for deploying next generation advanced towed arrays.			
	FY 2007	FY 2008	FY 2009
Autonomous Anti-Submarine Vertical Beam Array	0.000	0.994	0.000
RDT&E Articles Quantity	0	0	0
Funds will be used to investigate incorporation of vertical beam arrays into existing fixed surveillance system hardware designs to provide a volumetric array capability for increased detection and system performance.			
	FY 2007	FY 2008	FY 2009
Low-Cost, Expendable, Fiber Optic Sensor Array	0.000	0.994	0.000
RDT&E Articles Quantity	0	0	0
Funding for continued development of a low cost, expendable, ultra-thin fiber-optic array with applications to littoral, high fishing density OPAREAs.			
	FY 2007	FY 2008	FY 2009
Distributed Maritime Surveillance System	0.000	1.589	0.000
RDT&E Articles Quantity	0	0	0
Funding for anchored buoy-based underwater acoustic system.			