CLASSIFICATION:	UNCLASSIFIED

EXHIBIT R-2, RDT&E BUDGET ITEM JUSTIFICATION	DATE February 2008
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 5**	R-1 ITEM NOMENCLATURE **0604784N/DISTRIBUTED SURVEILLANCE SYSTEM**

COST (In Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total PE Cost	59.049	0.000	0.000	0.000	0.000	0.000	0.000
1300 / Advanced Deployable System	58.053	0.000	0.000	0.000	0.000	0.000	0.000
9999 / CONGRESSIONAL ADDS	0.996	0.000	0.000	0.000	0.000	0.000	0.000

A. MISSION DESCRIPTION:

The Advanced Deployable System (ADS), Project 1300, is a rapidly deployable, passive acoustic undersea surveillance system that will be deployed and monitored by a rental craft at a System Integration Test (SIT) in the first quarter of Fiscal year 2008. ADS is designed to detect, track and report modern diesel electric and nuclear submarines, as well as provide the capability to track surface ships and potentially detect mine-laying activities. ADS consists of three subsystems coordinated by the Prime Contractor who develops the Prime Mission Product (PMP) and who acts as the system integrator for all subcontract activities:

- The String, which incorporates the Sensor Subsystem (SS) and the Tactical Interface Subsystem (TIS). SS consists of four acoustic arrays, small diameter fiber optic (SDFO) cable which connects the arrays, and a pressure vessel (PV). The PV contains a battery power supply, electronics, and lasers. The lasers serve to optically telemeter the hydrophone data to the in-water TIS via SDFO cable. The TIS consists of a self-powered buoy, housing computers (to partially process and compress the SS data stream), a radio and an antenna to transmit to the data to a supporting LCS.
- An Analysis and Reporting Subsystem (ARS) aboard the LCS, where the received information data stream is analyzed and target information is reported to the rental craft for monitoring and data collection.
- An Installation Support Subsystem (ISS) for rapid deployment of the SS and TIS by the LCS.

Following SIT, the ADS program will be terminated as directed by the Assistant Secretary of the Navy (Research, Development and Acquisition) in an Acquisition Decision Memorandum dated 5 October 2006.

FY07 Congressional add: Funding for Off-Board Sensor

(U) JUSTIFICATION FOR BUDGET ACTIVITY:

TECHNOLOGY DEVELOPMENT (TD) AND SYSTEM DEVELOPMENT DEMONSTRATION (SDD)

This program is funded under technology development because it encompasses development of new end-items. Milestone B approved December 2005.Only SIT remains funded for completion.

CLASSIFICATION:	UNCLASSIFIED	
EXHIBIT R-2, RDT&E BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE February 2008
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 5**	R-1 ITEM NOMENCLATURE **0604784N/DISTRIBUTED SURVEILLANCE SYSTEM**	

B. PROGRAM CHANGE SUMMARY:

Funding:	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY08 Pres Controls)	59.049		
Current President's Budget (FY09 Pres Controls)	59.049		
Total Adjustments	0.000		

C. OTHER PROGRAM FUNDING SUMMARY:

N/A

D. ACQUISITION STRATEGY:

Acquisition Strategy (Approved by ASN/RDA Apr04) addresses redirected program under review by Navy Leadership. Strategy takes ADS to sole source contracting strategy, and the contract was awarded SEP 04.

MILESTONES:	FY07	FY08
PROGRAM:		
ENGINEERING:	CRITICAL DESIGN REVIEW (CDR)	
T&E:	DEVELOPMENTAL TEST EVENTS	CONDUCT SIT
CONTRACT:		CANCEL PROGRAM AFTER SIT

E. MAJOR PERFORMERS:

CLASSIFICATION:	UNCLASSIFIED						
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION					DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 5**	PROGRAM ELEMENT NUMBER AND NAME **0604784N/DISTRIBUTED SURVEILLANCE SYSTEM**				PROJECT NUMBER AND NAME **1300/Advanced Deployable System**		
COST (In Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	58.053	0.000	0.000	0.000	0.000	0.000	0.000
RDT&E Articles Qty	0	0	0	0	0	0	0

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The Advanced Deployable System (ADS), Project 1300, is a rapidly deployable, passive acoustic undersea surveillance system that will be deployed and monitored by a rental craft at a System Integration Test (SIT) in the first quarter of Fiscal year 2008. ADS is designed to detect, track and report modern diesel electric and nuclear submarines, as well as provide the capability to track surface ships and potentially detect mine-laying activities. ADS consists of three subsystems coordinated by the Prime Contractor who develops the Prime Mission Product (PMP) and who acts as the system integrator for all subcontract activities:

- The String, which incorporates the Sensor Subsystem (SS) and the Tactical Interface Subsystem (TIS). SS consists of four acoustic arrays, small diameter fiber optic (SDFO) cable which connects the arrays, and a pressure vessel (PV). The PV contains a battery power supply, electronics, and lasers. The lasers serve to optically telemeter the hydrophone data to the in-water TIS via SDFO cable. The TIS consists of a self-powered buoy, housing computers (to partially process and compress the SS data stream), a radio and an antenna to transmit to the data to a supporting LCS.

- An Analysis and Reporting Subsystem (ARS) aboard the LCS, where the received information data stream is analyzed and target information is reported to the rental craft for monitoring and data collection.

- An Installation Support Subsystem (ISS) for rapid deployment of the SS and TIS by the LCS.

Following SIT, the ADS program will be terminated as directed by the Assistant Secretary of the Navy (Research, Development and Acquisition) in an Acquisition Decision Memorandum dated 5 October 2006.

CLASSIFICATION:	UNCLASSIFIED		
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION			DATE February 2008
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 5**	PROGRAM ELEMENT NUMBER AND NAME **0604784N/DISTRIBUTED SURVEILLANCE SYSTEM**	PROJECT NUMBER AND NAME **1300/Advanced Deployable System**	

B. ACCOMPLISHMENTS/PLANNED PROGRAM:

	FY 2007	FY 2008	FY 2009
ANALYSIS AND REPORTING SYSTEM (ARS)	4.318	0.000	0.000
RDT&E Articles Quantity	0	0	0

FY07 Conducted System CDR and DVTs for the segments of the ARS of the ADS Mission Module. Integrated ARS segments for subsystem testing and then participated in ADS System Integration Test (SIT).

	FY 2007	FY 2008	FY 2009
INSTALLATION SUPPORT SUBSYSTEM (ISS)	2.317	0.000	0.000
RDT&E Articles Quantity	0	0	0

FY07 Conducted System CDR. Continued segment fabrication and integration testing. Procured hardware for ISS test article in support of the System Integration Test (SIT) .

	FY 2007	FY 2008	FY 2009
TEST AND EVALUATION (T&E)	0.665	0.000	0.000
RDT&E Articles Quantity	0	0	0

FY07 Coordinated test planning for SIT. Following the Critical Design Review, DT focused on the demonstration of system integration with final SIT aboard a surface vessel to validate system end-to-end performance.

	FY 2007	FY 2008	FY 2009
STRING	1.238	0.000	0.000
RDT&E Articles Quantity	0	0	0

FY07 Conducted Buoy Installation Assembly (BIA) risk reduction test. Conducted System CDR. Continued DVT of subsystem components. Fabricated test articles to support SIT. Finalized spectrum certification approval.

	FY 2007	FY 2008	FY 2009
Prime Mission Product (PMP)	45.033	0.000	0.000
RDT&E Articles Quantity	0	0	0

FY07 Developed ADS prime mission product hardware and software. Provided prime contractor funding to act as system integrator. Conducted System CDR. Continued manufacturing test articles to support SIT. Refurbished SIT gear and conduct all efforts required to terminate program following refurbishment of SIT.

	FY 2007	FY 2008	FY 2009
SYSTEM ENGINEERING PROGRAM MANAGEMENT (SEPM)	4.482	0.000	0.000
RDT&E Articles Quantity	0	0	0

FY07 Continued Project Management support for the ADS Program Office. Monitored government and contractor technical, schedule, and cost performance. Witnessed subsystem integration testing and prepared for conduct of system integration testing with the engineering development models. Continued to conduct cost trade off studies, analyze and track technical performance measures, perform configuration and interface management, hold technical reviews and audits and conduct risk management. Conducted System CDR.

CLASSIFICATION:	UNCLASSIFIED	
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION (CONTINUATION)		DATE February 2008
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 5**	PROGRAM ELEMENT NUMBER AND NAME **0604784N/DISTRIBUTED SURVEILLANCE SYSTEM**	PROJECT NUMBER AND NAME **1300/Advanced Deployable System**

Continued to coordinate with LCS Mission Module and Ship program offices for radio and antenna integration. Oversaw refurbishment of SIT gear and cancellation of the program following SIT.

CLASSIFICATION:	UNCLASSIFIED	
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION		DATE February 2008
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 5**	PROGRAM ELEMENT NUMBER AND NAME **0604784N/DISTRIBUTED SURVEILLANCE SYSTEM**	PROJECT NUMBER AND NAME **9999/CONGRESSIONAL ADDS**

B. ACCOMPLISHMENTS/PLANNED PROGRAM:

	FY 2007	FY 2008	FY 2009
9A57 - Off Board Sensor	0.996	0.000	0.000
RDT&E Articles Quantity	0	0	0

Congressional add funds provide a systems approach to the development of the Wet-end Installation System Element (WISE) which deploys sensors using expendable underwater vehicles. The system provides wide area surveillance and real-time target information from deployable surveillance sensors to the tactical Commander in the Littoral environment without the need to connect to the sensors."