Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Navy										DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*				R-1 ITEM NOMENCLATURE PE 0204311N: *Integrated Surveillance System*							
COST ($ in Millions)	**FY 2010**	**FY 2011**	**FY 2012 Base**	**FY 2012 OCO**	**FY 2012 Total**	**FY 2013**	**FY 2014**	**FY 2015**	**FY 2016**	**Cost To Complete**	**Total Cost**
Total Program Element	26.123	23.464	21.259	-	21.259	21.534	21.854	22.295	22.460	Continuing	Continuing
0766.: *IUSS Detect/Classif System*	24.530	23.464	21.259	-	21.259	21.534	21.854	22.295	22.460	Continuing	Continuing
9999: *Congressional Adds*	1.593	-	-	-	-	-	-	-	-	0.000	1.593

A. Mission Description and Budget Item Justification

This Program Element (PE) comprises two projects - 0766 and 9999. 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. A portion of project 0766 (FSS) is classified, with details available at a higher classification level. Project 9999 consists of the Congressional Add: Autonomous Anti-Submarine Vertical Beam Array.

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.

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 has consolidated on the TB-29A Twin-line array, a variant of the Submarine TB-29A Long line array. This reduced the number of array variants employed by SURTASS from 3 to 1, and enabled development and logistics cost savings by leveraging off the submarine TB-29A program.

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Navy	DATE: February 2011
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B. Program Change Summary ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	26.225	23.464	23.938	-	23.938
Current President's Budget	26.123	23.464	21.259	-	21.259
Total Adjustments	-0.102	-	-2.679	-	-2.679
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	-	-	-2.614	-	-2.614
• Section 219 Reprogramming	-0.063	-	-	-	-
• Rate/Misc Adjustments	-	-	-0.065	-	-0.065
• Congressional General Reductions Adjustments	-0.039	-	-	-	-

Congressional Add Details ($ in Millions, and Includes General Reductions)

	FY 2010	FY 2011
Project: 9999: *Congressional Adds*		
Congressional Add: *Autonomous Anti-Sub Vertical Bean Array*	1.593	-
Congressional Add Subtotals for Project: 9999	1.593	-
Congressional Add Totals for all Projects	1.593	-

Change Summary Explanation

Technical: Not applicable.

Schedule: Not applicable.

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy			DATE: February 2011
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COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
0766.: *IUSS Detect/Classif System*	24.530	23.464	21.259	-	21.259	21.534	21.854	22.295	22.460	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

Note

The FSS portion of 0766 is classified with details available at a higher classification level.

A. Mission Description and Budget Item Justification

A. This project includes efforts for 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, integrated active and passive operations, improved Battle Group support, and improved information processing.

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 (ICP) architecture. The 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.

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 on 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 TI process, modeled 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.

B. PEO LMW is involved with the development and maintenance of various IUSS systems. These systems include FDS, FDS-C, SDS and SURTASS. The near-term goal is development of ICP, which will result in a single IUSS processor baseline, with minor maintenance efforts continuing on fielded systems. The existing system

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011
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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, along with 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.
The FSS portion of 0766 is classified with details available at a higher classification level.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Title: ASW Study	0.681	0.659	-
Articles:	0	0	
FY 2010 Accomplishments: Conducted trade-offs and studies for Distribute/Netted System concept application for Shallow Water Surveillance System incorporating Matched Field Processing (MFP), Autonomous Burial Vehicles (ABV) and Reeling Pop-up Buoy (RPuB) communication. Conducted successful demonstration of ABV with burial of 20 meters of a dummy array; initiated evaluation of MFP on archived passive acoustic array data from 2004; developed RPuB test mock-up and conducted initial successful at sea endurance test.			
FY 2011 Plans: Continue trade-offs and studies for Distribute/Netted System concept. Evaluate Autonomous Burial Vehicle (ABV) burial improvement concepts from other sources for possible incorporation in Shallow Water Surveillance System solution. Conduct Matched Field Processing (MFP) model validation, and develop model-based statistics of MFP in various tactically significant areas for Anti-Submarine Warfare. Continue development of Reeling Pop-up Buoy (RPuB) by implementing anti-fouling device with extended at sea endurance test.			
Title: Compact Low Frequency Active	2.285	1.890	1.960
Articles:	0	0	0
FY 2010 Accomplishments: Continued DT for CLFA/TL-29A/IUSS Common Processor (ICP). Development of product improvements and corrections recommended or required from DT.			
FY 2011 Plans: Complete DT for CLFA/TL-29A/ICP. Continue development of product improvements and corrections associated with CLFA DT and LFA FOT&E. Conduct at-sea testing of product improvements. Conduct FOT&E for LFA/TL-29A/ICP.			
FY 2012 Plans: Conduct OT of CLFA/TL-29A/ICP. Continue development of product improvements and corrections associated with CLFA DT/OT and LFA FOT&E.			

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011
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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Conduct at-sea testing of product improvements.			
Title: TB-29A/Twin-Line	1.948	1.889	1.848
Articles:	0	0	0
FY 2010 Accomplishments: Continued development of connectionless array technologies and true fiber-optic arrays. Investigated Twin-line variants of new submarine Long-line arrays for future application to SURTASS. Continued development and test of additional fishing net mitigation approaches.			
FY 2011 Plans: 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. Continue development of fishing net mitigation approaches.			
FY 2012 Plans: 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. Continue development of fishing net mitigation approaches.			
Title: Integrated Common Processor (ICP)	13.661	13.446	12.136
Articles:	0	0	0
FY 2010 Accomplishments: Began tech refresh development in coordination with the Submarine Acoustic Rapid COTS Insertion (ARCI) Program Advanced Processing Build (APB) tech refresh. Continued development of new automation algorithms and techniques for addressing multi-array, high beam count requirements. Continued development of Littoral LFA improvements.			
FY 2011 Plans: Continue development of new automation algorithms and techniques for addressing multi-array high beam count requirements. Continue development of Littoral LFA improvements. Continue tech refresh development in coordination with the Submarine Acoustic Rapid COTS Insertion (ARCI) Program Advanced Processing Build (APB) tech refresh. Address processing improvement recommendations and deficiencies associated with CLFA DT and LFA FOT&E.			
FY 2012 Plans: Continue development of new automation algorithms and techniques for addressing multi-array high beam count requirements. Continue development of Littoral LFA improvements.			

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011
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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Continue tech refresh development in coordination with the Submarine Acoustic Rapid COTS Insertion (ARCI) Program Advanced Processing Build (APB) tech refresh. Continue to address processing improvement recommendations and deficiencies associated with CLFA DT/OT and LFA FOT&E.			
Title: Classified Effort	5.955	5.580	5.315
Articles:	0	0	0
Description: The FSS portion of 0766 is classified with details available at a higher classification level. ***FY 2010 Accomplishments:*** The FSS portion of 0766 is classified with details available at a higher classification level. ***FY 2011 Plans:*** The FSS portion of 0766 is classified with details available at a higher classification level. ***FY 2012 Plans:*** The FSS portion of 0766 is classified with details available at a higher classification level.			
Accomplishments/Planned Programs Subtotals	24.530	23.464	21.259

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
• OPN/2237: *Surveillance Towed Array Sensor System*	24.034	8.468	29.247	0.000	29.247	2.774	1.910	2.414	2.456	0.000	140.803

D. Acquisition Strategy

FY 2010: T&E Milestones: CLFA/TL-29A/ICP DT.
FY 2011: Engineering Milestones: ICP Tech Refresh.
FY 2011: T&E Milestones: CLFA/TL-29A/ICP DT. LFA/TL-29A/ICP FOT&E.
FY 2012: T&E Milestones: CLFA/TL-29A/ICP OT&E.
The FSS portion of 0766 is classified with details available at a higher classification level.

E. Performance Metrics

Successfully achieve CLFA Initial Operational Capability. Successfully complete CLFA Operation Test Readiness Review. Successfully complete CLFA Developmental Test / Operational Test. Successful demonstration of required LFA/CLFA improvements capability. Successful transition of Submarine Advanced Processing Build (APB) functionality into IUSS products. Successful transition of net mitigation technologies into Towed Array baseline.

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011
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The FSS portion of 0766 is classified with details available at a higher classification level.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy		DATE: February 2011
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Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
IUSS COMMON ARCHITECTURE	C/CPFF	LOCKHEED MARTIN:VA	-	8.132	Nov 2010	7.215	Nov 2011	-		7.215	Continuing	Continuing	Continuing
IUSS COMMON ARCHITECTURE	C/CPFF	APL/JHU:MD	-	0.525	Nov 2010	0.525	Nov 2011	-		0.525	Continuing	Continuing	Continuing
IUSS COMMON ARCHITECTURE	Various	VARIOUS:Not Specified	62.813	0.755	Nov 2010	0.755	Nov 2011	-		0.755	Continuing	Continuing	Continuing
ACTIVE IMPROVEMENT/ CLFA/LFA	WR	NFESC:CA	-	0.398	Nov 2010	0.447	Nov 2011	-		0.447	Continuing	Continuing	Continuing
ACTIVE IMPROVEMENT/ CLFA/LFA	WR	SSC PAC:CA	-	0.227	Nov 2010	0.227	Nov 2011	-		0.227	Continuing	Continuing	Continuing
ACTIVE IMPROVEMENT/ CLFA/LFA	C/CPFF	APL/JHU:MD	-	0.375	Nov 2010	0.375	Nov 2011	-		0.375	Continuing	Continuing	Continuing
ACTIVE IMPROVEMENT/ CLFA/LFA	Various	VARIOUS:Not Specified	116.206	0.323	Nov 2010	0.323	Nov 2011	-		0.323	Continuing	Continuing	Continuing
N74 ASW STUDY	WR	SSC PAC:CA	-	0.449	Nov 2010	-	Nov 2011	-		-	Continuing	Continuing	Continuing
N74 ASW STUDY	Various	VARIOUS:Not Specified	7.335	0.210	Nov 2010	-	Nov 2011	-		-	Continuing	Continuing	Continuing
ARRAY IMPROVEMENTS	C/CPFF	APL/JHU:VA	-	0.625	Nov 2010	0.625	Nov 2011	-		0.625	Continuing	Continuing	Continuing
ARRAY IMPROVEMENTS	WR	ADAPTIVE METHODS:VA	-	0.222	Nov 2010	0.271	Nov 2011	-		0.271	Continuing	Continuing	Continuing
ARRAY IMPROVEMENTS	Various	VARIOUS:Not Specified	7.624	0.476	Nov 2010	0.365	Nov 2011	-		0.365	Continuing	Continuing	Continuing
FSS - Classified	Various	TBD:Not Specified	5.955	5.580	Nov 2010	5.315	Nov 2011	-		5.315	0.000	16.850	
		Subtotal	199.933	18.297		16.443		-		16.443			

Remarks

The FSS portion of 0766 is classified with details available at a higher classification level.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy		DATE: February 2011
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Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
IUSS COMMON ARCHITECTURE	WR	SSC PAC:CA	-	1.707	Nov 2010	1.511	Nov 2011	-		1.511	Continuing	Continuing	Continuing
IUSS COMMON ARCHITECTURE	Various	VARIOUS:Not Specified	3.270	0.310	Nov 2010	0.310	Nov 2011	-		0.310	Continuing	Continuing	Continuing
ACTIVE IMPROVEMENTS/ CLFA/LFA	WR	SSC PAC:CA	-	0.194	Nov 2010	0.204	Nov 2011	-		0.204	Continuing	Continuing	Continuing
ACTIVE IMPROVEMENTS/ CLFA/LFA	Various	VARIOUS:Not Specified	7.117	0.090	Nov 2010	0.090	Nov 2011	-		0.090	Continuing	Continuing	Continuing
ARRAY IMPROVEMENTS	Various	VARIOUS:Not Specified	-	0.283	Nov 2010	0.294	Nov 2011	-		0.294	Continuing	Continuing	Continuing
		Subtotal	10.387	2.584		2.409		-		2.409			

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
IUSS COMMON ARCHITECTURE	C/CPFF	LOCKHEED MARTIN:VA	-	0.953	Nov 2010	0.821	Nov 2011	-		0.821	Continuing	Continuing	Continuing
IUSS COMMON ARCHITECTURE	Various	Not Specified:Not Specified	5.701	0.392	Nov 2010	0.392	Nov 2011	-		0.392	Continuing	Continuing	Continuing
ACTIVE IMPROVEMENTS/ CLFA/LFA	WR	OPTEVFOR:Not Specified	-	0.125	Nov 2010	0.125	Nov 2011	-		0.125	Continuing	Continuing	Continuing
ACTIVE IMPROVEMENTS/ CLFA/LFA	Various	Not Specified:Not Specified	20.538	0.064	Nov 2010	0.071	Nov 2011	-		0.071	Continuing	Continuing	Continuing
ARRAY IMPROVEMENTS	C/CPFF	APL/JHU:MD	-	0.189	Nov 2010	0.196	Nov 2011	-		0.196	Continuing	Continuing	Continuing
ARRAY IMPROVEMENTS	Various	Not Specified:Not Specified	2.568	-		-		-		-	Continuing	Continuing	Continuing
		Subtotal	28.807	1.723		1.605		-		1.605			

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy		DATE: February 2011
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Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
IUSS COMMON ARCHITECTURE	Various	VARIOUS:Not Specified	3.629	0.671	Nov 2010	0.606	Nov 2011	-		0.606	Continuing	Continuing	Continuing
ACTIVE IMPROVEMENTS/ CLFA/LFA	Various	VARIOUS:Not Specified	15.317	0.095	Nov 2010	0.098	Nov 2011	-		0.098	Continuing	Continuing	Continuing
ARRAY IMPROVEMENTS	Various	VARIOUS:Not Specified	-	0.094	Nov 2010	0.098	Nov 2011	-		0.098	Continuing	Continuing	Continuing
		Subtotal	18.946	0.860		0.802		-		0.802			

	Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	258.073	23.464		21.259		-		21.259			

Remarks

The R3 and the R4 / R4A reflect the UNCLASSIFIED portion of the PE.

Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy		DATE: February 2011
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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy		DATE: February 2011
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Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 0766.L24				
TB-29A TL SYSTEM INSTALLATION / TEST (T-23)	1	2010	2	2010
CLFA / TL-29A/ ICP DT	1	2010	4	2011
CLFA / TL-29A/ ICP OT & E	2	2012	3	2012
LFA / TL-29A/ ICP FOT & E	2	2010	4	2011
CLFA / TL29A / ICP (T21)	3	2011	4	2011
CLFA / TL29A / ICP (T19)	3	2012	3	2012
CLFA Production	1	2010	3	2012
ICP Software Development	1	2010	4	2016
ICP Tech Refresh	1	2013	3	2014

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy			DATE: February 2011
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COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
9999: *Congressional Adds*	1.593	-	-	-	-	-	-	-	-	0.000	1.593
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Congressional Add.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011
Congressional Add: Autonomous Anti-Sub Vertical Bean Array	1.593	-
FY 2010 Accomplishments: Continued investigation into the incorporation of vertical beam arrays into existing fixed surveillance system hardware designs to provide a ready volumetric array capability for increased detection and system performance.		
Congressional Adds Subtotals	1.593	-

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

Congressional add.