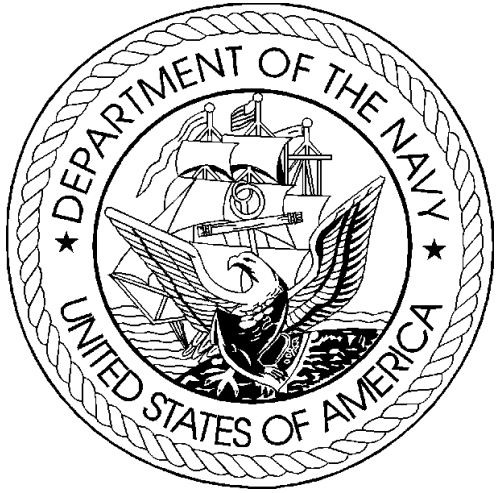
DEPARTMENT OF THE NAVY
FISCAL YEAR (FY) 2010
BUDGET ESTIMATES



JUSTIFICATION OF ESTIMATES
MAY 2009

OTHER PROCUREMENT, NAVY
BUDGET ACTIVITY 4

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Other Procurement, Navy

For procurement, production, and modernization of support equipment and materials not otherwise provided for, Navy ordnance (except ordnance for new aircraft, new ships, and ships authorized for conversion); the purchase of passenger motor vehicles for replacement only, and the purchase of 15 vehicles required for physical security of personnel, notwithstanding price limitations applicable to passenger vehicles but not to exceed $128,000 per light armored vehicle, and $417,000 per heavy armored vehicle; expansion of public and private plants, including the land necessary therefor, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway, $5,979,194,000, to remain available for obligation until September 30, 2012.

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Department of the Navy
FY 2010/2011 President's Budget
Exhibit P-1 FY 2010 Base and Overseas Contingency Operations (OCO) Request
Summary
(Dollars in Thousands)

05 MAY 2009

APPROPRIATION: Other Procurement, Navy

Budget Activity	FY 2008 Base&OCO Actuals	FY 2009 Base&OCO SupReq 4/9/09	FY 2010 Base	FY 2010 OCO	FY 2010 Total
04. Ordnance support equipment	788,208	642,112	695,138	43,650	738,788
TOTAL Other Procurement, Navy	788,208	642,112	695,138	43,650	738,788

Exhibit P-1Q: FY 2010 Base and Overseas Contingency Operations (OCO) Request, as of May 5, 2009 at 14:26:31

Department of the Navy
FY 2010/2011 President's Budget
Exhibit P-1 FY 2010 Base and Overseas Contingency Operations (OCO) Request
(Dollars in Thousands)

APPROPRIATION: 1810N Other Procurement, Navy DATE: 05 MAY 2009

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2008 Base&OCO Actuals Quantity	FY 2008 Base&OCO Actuals Cost	FY 2009 Base&OCO SupReq 4/9/09 Quantity	FY 2009 Base&OCO SupReq 4/9/09 Cost	FY 2010 Base Quantity	FY 2010 Base Cost	FY 2010 OCO Quantity	FY 2010 OCO Cost	FY 2010 Total Quantity	FY 2010 Total Cost	S E C
BUDGET ACTIVITY 04: Ordnance support equipment													
	SHIP GUN SYSTEM EQUIPMENT												
102	NAVAL FIRES CONTROL SYSTEM	A		1,371		1,690		1,391				1,391	U
103	GUN FIRE CONTROL EQUIPMENT	A		5,521		8,220		7,891				7,891	U
	SHIP MISSILE SYSTEMS EQUIPMENT												
104	NATO SEASPARROW	A		28,528		10,290		13,556				13,556	U
105	RAM GMLS	A		4,038		14,649		7,762				7,762	U
106	SHIP SELF DEFENSE SYSTEM	B		29,032		46,549		34,079				34,079	U
107	AEGIS SUPPORT EQUIPMENT	A		88,696		89,160		108,886				108,886	U
108	TOMAHAWK SUPPORT EQUIPMENT	A		54,711		55,312		88,475				88,475	U
109	VERTICAL LAUNCH SYSTEMS	A		6,784		5,627		5,513				5,513	U
	FBM SUPPORT EQUIPMENT												
110	STRATEGIC MISSILE SYSTEMS EQUIP	A		136,894		118,464		155,579				155,579	U
	ASW SUPPORT EQUIPMENT												
111	SSN COMBAT CONTROL SYSTEMS	A		113,271		97,721		118,528				118,528	U
112	SUBMARINE ASW SUPPORT EQUIPMENT	A		5,148		5,358		5,200				5,200	U
113	SURFACE ASW SUPPORT EQUIPMENT	A		3,461		4,608		13,646				13,646	U
114	ASW RANGE SUPPORT EQUIPMENT	A		8,861		17,148		7,256				7,256	U
	OTHER ORDNANCE SUPPORT EQUIPMENT												
115	EXPLOSIVE ORDNANCE DISPOSAL EQUIP	B		205,642	36	75,869		54,069		43,650		97,719	U
116	ITEMS LESS THAN $5 MILLION	A		6,572		6,715		3,478				3,478	U

Exhibit P-1Q: FY 2010 Base and Overseas Contingency Operations (OCO) Request, as of May 5, 2009 at 14:26:31

Department of the Navy
FY 2010/2011 President's Budget
Exhibit P-1 FY 2010 Base and Overseas Contingency Operations (OCO) Request
(Dollars in Thousands)

APPROPRIATION: 1810N Other Procurement, Navy DATE: 05 MAY 2009

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2008 Base&OCO Actuals Quantity	FY 2008 Base&OCO Actuals Cost	FY 2009 Base&OCO SupReq 4/9/09 Quantity	FY 2009 Base&OCO SupReq 4/9/09 Cost	FY 2010 Base Quantity	FY 2010 Base Cost	FY 2010 OCO Quantity	FY 2010 OCO Cost	FY 2010 Total Quantity	FY 2010 Total Cost	S E C
	OTHER EXPENDABLE ORDNANCE												
117	ANTI-SHIP MISSILE DECOY SYSTEM	A		42,099		37,965		37,128				37,128	U
118	SURFACE TRAINING DEVICE MODS	A		9,868		9,793		7,430				7,430	U
119	SUBMARINE TRAINING DEVICE MODS	A		37,711		36,974		25,271				25,271	U
TOTAL	Ordnance support equipment			788,208		642,112		695,138		43,650		738,788	
TOTAL	Other Procurement, Navy			788,208		642,112		695,138		43,650		738,788	

Exhibit P-1Q: FY 2010 Base and Overseas Contingency Operations (OCO) Request, as of May 5, 2009 at 14:26:31

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**	P-1 LINE ITEM NOMENCLATURE NAVAL FIRES CONTROL SYS **SUBHEAD NO. A4FC BLI: 5112**	
Program Element for Code B Items	Other Related Program Elements	

	Prior Years	ID Code		FY 2008	FY 2009	FY 2010						
Quantity	0			0	0	0						
COST (In Millions)	45.0	A		1.4	1.7	1.4						
SPARES COST (In Millions)	0.7	0		0.3	0.1	0.1						

PROGRAM DESCRIPTION/JUSTIFICATION:

The Naval Fires Control System (NFCS) is an automated mission planning and coordination system for Naval Surface Fires Support (NSFS) System. It automates shipboard land attack battle management duties to be interoperable and consistent with joint C4ISR systems. These shipboard weapon systems significantly improve the Navy's ability to support Operational Maneuver From The Sea (OMFTS). Procurement of product improvement ORDALTS starts in FY08. These improvements provide enhanced capabilities and reduce total ownership costs by improved reliability and supportability of NFCS. These improvements also include hardware technology refresh of COTS items.

CLASSIFICATION:	UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS			Weapon System								DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code	P-1 LINE ITEM NOMENCLATURE **NAVAL FIRES CONTROL SYS** **SUBHEAD NO. A4FC**							
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS								
			Prior Years	FY 2008			FY 2009			FY 2010		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	EQUIPMENT											
FC001	NFCS PHASE I	A	10.106	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
FC002	INSTALLATION OF NFCS EQUIPMENT		4.360	2	0.224	0.448	2	0.231	0.462	2	0.238	0.476
FC007	LSS UPDATE		15.645	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
FC008	LSS REMOTE SENSORS		5.062	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
FC009	NFCS FOR LSS		3.290	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
FC010	PRODUCT IMPROVEMENT/ORDALT		0.000	0	0.000	0.578	0	0.000	0.544	0	0.000	0.313
FC011	INSTALLATION OF ORDALT		0.000	0	0.000	0.000	0	0.000	0.400	0	0.000	0.366
FC830	PRODUCTION ENGINEERING SUPPORT (NFCS)		5.536	0	0.000	0.345	0	0.000	0.284	0	0.000	0.236
FCCA1	GULF COAST JOINT HARBOR OPS CENTER (JHOC)		0.997	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	TOTAL EQUIPMENT		**44.996**			**1.371**			**1.690**			**1.391**
	TOTAL		**44.996**			**1.371**			**1.690**			**1.391**

CLASSIFICATION:	UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				**DATE** **May 2009**	
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**					**P-1 LINE ITEM NOMENCLATURE** **NAVAL FIRES CONTROL SYS** **BLIN: 5112**				**SUBHEAD** **A4FC**	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAIL NOW	DATE REVISIONS AVAILABLE
FY 2008										
FC002										
INSTALLATION OF NFCS EQUIPMENT	2	0.224	NAVSEA	N/A	WX	NSWC/PHD	FEB-08	N/A	YES	
FY 2009										
FC002										
INSTALLATION OF NFCS EQUIPMENT	2	0.231	NAVSEA	N/A	WX	NSWC/PHD	FEB-09	N/A	YES	
FY 2010										
FC002										
INSTALLATION OF NFCS EQUIPMENT	2	0.238	NAVSEA	N/A	WX	NSWC/PHD	FEB-10		YES	

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**	P-1 LINE ITEM NOMENCLATURE GUN FIRE CONTROL EQUIPMENT **SUBHEAD NO. A4NV BLI: 5209**	
Program Element for Code B Items	Other Related Program Elements	

	Prior Years	ID Code		FY 2008	FY 2009	FY 2010						Total
Quantity	0			0	0	0						
COST (In Millions)	53.2	A		5.5	8.2	7.9						
SPARES COST (In Millions)	0.6			0	0.2	0.1						

PROGRAM DESCRIPTION/JUSTIFICATION:

This program provides for procurement of equipment, materials and Ordnance Alterations (ORDALTs) to improve combat effectiveness and maintain logistic supportability of Gun Fire Control Systems (GFCS) and procure night vision and other optical systems.

NV024 RMA (RELIABILITY, MAINTAINABILITY AND AVAILABILITY) (GUN FIRE CONTROL SYSTEMS)

Procures Product Improvement ORDALTs for gun fire control systems (MK 86 and MK160) to correct problems reported by fleet units. Upgrades unreliable components and replaces obsolete components and parts no longer in production. MK 86 ORDALTs were procured in prior years and are being installed in blocks to reduce total installation costs.

NV039 NIGHT VISION DEVICES

Procures new Night Vision Devices (NVD) for ships and shore sites. Provides replacement of NVD and NVD Test Equipment.

NV051 OPTICAL SIGHT SYSTEMS (OSS) PRODUCT IMPROVEMENT

Procures Product Improvements for OSS on DDG 51 and CG 47 Class ships. OSS are an integral element of the MK 34 gun weapon system. These improvements provide enhanced force protection capabilities and reduce total ownership costs by improved reliability and supportability of in-service equipment systems.

NV5IN/NV6IN - INSTALLATION OF EQUIPMENTS

Provides funding to install ORDALTS, field changes and other alterations in ships (Fleet Modernization Program - FMP) and shore sites (Non-fleet Modernization Program - NON-FMP).

CLASSIFICATION:	UNCLASSIFIED											
EXHIBIT P-5 COST ANALYSIS			Weapon System									DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code	P-1 LINE ITEM NOMENCLATURE **GUN FIRE CONTROL EQUIPMENT** **SUBHEAD NO. A4NV**								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2008			FY 2009			FY 2010		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	EQUIPMENT											
NV024	EQUIPMENT											
	RMA MK86 KITS	A	7.522	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	MODIFICATION - NONRECURRING		1.184	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	FIRE CONTROL/PRODUCT IMPROVEMENT		0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	3.351
NV039	EQUIPMENT											
	NIGHT VISION DEVICES	A	13.484	0	0.000	2.626	0	0.000	7.063	0	0.000	1.777
NV051	EQUIPMENT											
	OSS PRODUCTION IMPROVEMENT	A	29.323	0	0.000	2.612	0	0.000	1.157	0	0.000	2.763
	TOTAL EQUIPMENT		**51.513**			**5.238**			**8.220**			**7.891**
	INSTALLATION											
NV5IN	INSTALL OF EQUIPMENT FMP		1.436	0	0.000	0.165	0	0.000	0.000	0	0.000	0.000
NV6IN	INSTALL OF EQUIPMENT NON FMP		0.260	0	0.000	0.118	0	0.000	0.000	0	0.000	0.000
	TOTAL INSTALLATION		**1.696**			**0.283**			**0.000**			**0.000**
	TOTAL		**53.209**			**5.521**			**8.220**			**7.891**

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**	P-1 LINE ITEM NOMENCLATURE NATO SEASPARROW **SUBHEAD NO. A4US BLI: 5237**	
Program Element for Code B Items	Other Related Program Elements SHIP SELF DEFENSE 0604756N PROJ 0173	

	Prior Years	ID Code		FY 2008	FY 2009	FY 2010						
Quantity	0			0	0	0						
COST (In Millions)	103.9			28.5	10.3	13.6						
SPARES COST (In Millions)	0.0	0		0.6	0.2	0.3						

PROGRAM DESCRIPTION/JUSTIFICATION:

NATO SEASPARROW Surface Missile System (NSSMS): NATO SEASPARROW is a Self Defense Anti-Air Warfare (AAW) Shipboard Missile System. Primary operations consist of:

- Acquiring targets from external or internal designations
- Establishing track data for Engageability Determination and Launcher/Missile Control
- Target Illumination for Missile Guidance
- Missile Firing
- Kill/Survive Assessment

Provides fully automatic operation with provisions for Operator Intervention or Override from the time of Target Designation to Missile Away. The NSSMS consists of a Fire Control System comprised of Directors; a General Purpose Digital Computer; Signal Data Converters; Transmitter Group; Operating Consoles, and an 8 Cell Launcher, which employs the surface launch variant of the Sparrow Missile. The Surface Launch Version (RIM-7) uses a Radar Homing Guidance System, with Target Illumination provided by the shipboard MK91 System Radar Directors.

When NSSMS is combined with the MK23 Target Acquisition System (TAS), they become the AN/SWY-1 Self Defense Surface Missile System for the following U.S. Navy Ships: AOE/AORs, DD963s, Self Defense Test Ship, and shore based facilities. When the MK23 TAS is combined with RAM it becomes AN/SWY-2 on the LHA's. When NSSMS and TAS and RAM are combined it becomes the AN/SWY-3 on CV/CVNs and LHDs. The NSSMS is a NATO Cooperative Project with 12 participating Governments; Australia, Belgium, Canada, Denmark, Germany, Greece, Norway, The Netherlands, Portugal, Spain, Turkey and the United States. The NSSMS and associated systems of the Cooperative Project were developed, produced and are supported under DoD/MoD level International Memorandum of Understanding (MOU).

CLASSIFICATION:	UNCLASSIFIED											
EXHIBIT P-5 COST ANALYSIS			Weapon System									DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code	P-1 LINE ITEM NOMENCLATURE **NATO SEASPARROW** **SUBHEAD NO. A4US**								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2008			FY 2009			FY 2010		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	EQUIPMENT											
US004	MK 57 NATOSEASPARROW											
	TRANSMITTER UPGRADE (SSTX)	A	6.400	4	1.776	7.104	0	0.000	0.000	0	0.000	0
	UPGRADE LEGACY XTMR	A	0.560	0	0.000	0.580	0	0.000	0.000	0	0.000	0
	AN/UYQ-70 DISPLAY CONSOLE	A	1.500	5	0.300	1.500	0	0.000	0.000	0	0.000	0
	PRODUCTION SUPPORT	A	28.914	0	0.000	2.366	0	0.000	2.355	0	0.000	2.551
	CVN 73 ESSM CSSQT/CSOD	A	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.773
	MK 91 UPGRADE MOD 10/11 12/13	A	4.400	1	4.276	4.276	0	0.000	0.000	0	0.000	0
	NSSMS DEPOT	A	3.871	0	0.000	1.500	0	0.000	0.000	0	0.000	0
	SYSTEM UPGRADE 6/7 TO 10/11	A	8.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0
	TEST SUPPORT	A	0.662	0	0.000	0.318	0	0.000	0.253	0	0.000	0.121
	ECP'S	A	7.770	0	0.000	0.719	0	0.000	0.166	0	0.000	0.047
	COTS OBSOLESCENCE	A	1.439	0	0.000	0.000	0	0.000	0.000	0	0.000	1.166
US005	MK 29 GMLS ESSM ORDALT											
	ECP'S	A	0.425	0	0.000	0.106	0	0.000	0.108	0	0.000	0
	PRODUCTION SUPPORT	A	2.803	0	0.000	0.318	0	0.000	0.354	0	0.000	0.334
	TRAINING	A	2.047	0	0.000	0.000	0	0.000	0.000	0	0.000	0
	TEST SUPPORT	A	0.104	0	0.000	0.053	0	0.000	0.054	0	0.000	0.054
	EQUIPMENT	A	8.500	4	0.856	3.424	2	0.822	1.644	0	0.000	0
	ORDALT INSTALLATION DEPOT	A	4.351	0	0.000	4.130	0	0.000	2.206	0	0.000	1.597
US006	AMPHIB AAW SELF DEFENSE PRA IMPROVEMENT											
	MK 23 ORDALT KITS	A	0.000	0	0.000	0.000	0	0.000	0.000	2	0.364	0.728
	TEST SUPPORT	A	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.203
	TOTAL EQUIPMENT		**81.746**			**26.394**			**7.140**			**7.574**

CLASSIFICATION:	UNCLASSIFIED											
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)			Weapon System								DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code	P-1 LINE ITEM NOMENCLATURE **NATO SEASPARROW** **SUBHEAD NO. A4US**								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2008			FY 2009			FY 2010		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	INSTALLATION											
USINS	INSTALL OF EQUIPMENT		22.138	0	0.000	2.134	0	0.000	3.150	0	0.000	5.982
	TOTAL INSTALLATION		**22.138**			**2.134**			**3.150**			**5.982**
	TOTAL		**103.884**			**28.528**			**10.290**			**13.556**

CLASSIFICATION:	UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 4					P-1 LINE ITEM NOMENCLATURE NATO SEASPARROW BLIN: 5237				SUBHEAD A4US	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAIL NOW	DATE REVISIONS AVAILABLE
FY 2008										
US004 MK 57 NATOSEASPARROW										
TRANSMITTER UPGRADE (SSTX)	4	1.776	NAVSEA	JAN-07	FFP	RAYTHEON, PORTS, RI	FEB-08	FEB-10	YES	
AN/UYQ-70 DISPLAY CONSOLE	5	0.300	NAVSEA	JAN-07	FFP	LOCKHEED MARTIN EGAN, MN	JUL-08	APR-09	YES	
MK 91 UPGRADE MOD 10/11 12/13	1	4.276	NAVSEA	JAN-07	FFP	RAYTHEON, PORTS, RI	FEB-08	MAY-09	YES	
US005 MK 29 GMLS ESSM ORDALT										
EQUIPMENT	4	0.856	NAVSEA	JAN-07	FFP	RAYTHEON, PORTS, RI	FEB-08	MAY-09	YES	
FY 2009										
US005 MK 29 GMLS ESSM ORDALT										
EQUIPMENT	2	0.822	NAVSEA	JUL-07	FFP	RAYTHEON, PORTS, RI	FEB-09	JUN-10	YES	
FY 2010										
US006 AMPHIB AAW SELF DEFENSE PRA IMPROVEMENT										
MK 23 ORDALT KITS	2	0.364	NAVSEA	N/A	FFP	TBD	APR-10	FEB-11		

Remarks:

Date of First Delivery for equipment reflects the date it is sent to Raytheon Technical Services Company (RSTC) where Ordalts/Modifications are installed in Legacy equipment.

CLASSIFICATION: UNCLASSIFIED																				May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION																				
MODELS OF SYSTEM AFFECTED US004 MK 57 NATOSEASPARROW MK 91 UPGRADE MOD 10/11 12/13								TYPE MODIFICATION: PERFORMANCE, RELIABILITY				MODIFICATION TITLE: NATO SEASPARROW								
DESCRIPTION/JUSTIFICATION:																				
The MK 91 NATO SEASPARROW Re-Architecture Program will integrate NSSMS into SSDS MK 2 architecture to provide an additional layer of ship missile defense. The upgrade will eliminate the analog point to point architecture and other deficiencies resident to the existing MK 57 NSSMS, as well as allow for full exploitation of ESSM. In addition to the reduction in manning realized by RNSSMS, the Solid State Transmitter Ordalt will reduce NSSMS Cost of Ownership for the fleet.																				
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																				
COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	1	4.4	1	4.3															2	8.7
EQUIPMENT NONRECURRING		1.4						1.2												2.6
ENGINEERING CHANGE ORDERS		7.8		0.7		0.2														8.7
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
TEST SUPPORT		0.7		0.3		0.3		0.1												1.4
PRODUCTION SUPPORT		28.9		2.4		2.4		2.6												36.2
SYSTEM UPGRADES	5	8.0																	5	8.0
NSSMS DEPOT		3.9		1.5																5.4
CSSQT/CSOD								0.8												0.8
AN/UYQ-70 DISPLAY CONSOLE		1.5		1.5																3.0
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	4	22.2	1	1.2	1	2.3	1	4.8											7	30.5
TOTAL PROCUREMENT		78.8		11.9		5.1		9.4												105.2

CLASSIFICATION: UNCLASSIFIED **May 2009**

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED	MODIFICATION TITLE:
MK 57 NATOSEASPARROW MK 91 UPGRADE MOD 10/11 12/13	NATO SEASPARROW

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:	S/A 8741/SCD1164/200/201/2610						
ADMINISTRATIVE LEADTIME:	3 Months	PRODUCTION LEADTIME:	15 Months				
CONTRACT DATES:		FY 2008:	FEB-08	FY 2009:		FY 2010:	
DELIVERY DATES:		FY 2008:	MAY-09	FY 2009:		FY 2010:	

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
PRIOR YEARS	4	22.2																	4	22.2
FY 2008 EQUIPMENT			1	1.2															1	1.2
FY 2009 EQUIPMENT					1	2.3													1	2.3
FY 2010 EQUIPMENT							1	4.8											1	4.8
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2007 & Prior	FY 2008				FY 2009				FY 2010																						TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4																			
In	4	0	0	1	0	0	0	0	1	0	0	0	0																			6
Out	3	0	1	0	0	1	0	0	0	1	0	0	0																			6

Remarks:

CLASSIFICATION:
UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED																				May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION																				
MODELS OF SYSTEM AFFECTED US004 MK 57 NATOSEASPARROW TRANSMITTER UPGRADE (SSTX)						TYPE MODIFICATION:						MODIFICATION TITLE: NATO SEASPARROW								
DESCRIPTION/JUSTIFICATION:																				
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																				
COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	4	6.4	4	7.1															8	13.5
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
UPGRADE LEGACY XTMR		0.6		0.6																1.2
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST																				
TOTAL PROCUREMENT		7.0		7.7																14.7

CLASSIFICATION: UNCLASSIFIED			May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION			
MODELS OF SYSTEM AFFECTED		TYPE MODIFICATION:	MODIFICATION TITLE:
US005 MK 29 GMLS ESSM ORDALT EQUIPMENT		PERFORMANCE	NATO SEASPARROW
DESCRIPTION/JUSTIFICATION:			
The objective of this ORDALT is a cost-effective solution to protect CVNs IAW the Navy's Maritime Force Protection (MFP) program for ships self defense against the future threat of evolving Anti-Ship Cruise Missiles (ASCMs). The Navy's MFP plan calls for these platforms to carry ESSM to provide the required Probability of Raid Annihilation (PRA). The ESSM OrdAlt to the GMLS Mk 29 provides a low cost modification to the current trainable launcher. In conjunction with ESSM, this modification will meet performance requirements for all cited ship classes through the mid-term scenario as defined in the CAPSTONE requirements and the 1999 Report to Congress.			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: MILESTONE III JANUARY 2000			

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E		9.8																		9.8
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	10	8.5	4	3.4	2	1.6													16	13.6
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS		0.4		0.1		0.1														0.6
DATA																				
TRAINING EQUIPMENT	1	2.0																	1	2.0
SUPPORT EQUIPMENT																				
ORDALT INSTALL @ DEPOT		4.4		4.1		2.2		1.6												12.3
TEST SUPPORT		0.1		0.1		0.1		0.1												0.3
PRODUCTION SUPPORT		2.8		0.3		0.4		0.3												3.8
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	2	0.5	4	0.9	2	0.9	4	1.1											12	3.3
TOTAL PROCUREMENT		28.5		8.9		5.2		3.1												45.7

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED MK 29 GMLS ESSM ORDALT EQUIPMENT				MODIFICATION TITLE: NATO SEASPARROW			
INSTALLATION INFORMATION:							
METHOD OF IMPLEMENTATION:	SCD 200						
ADMINISTRATIVE LEADTIME:	3 Months	PRODUCTION LEADTIME:	15 Months				
CONTRACT DATES:		FY 2008:	FEB-08	FY 2009:	FEB-09	FY 2010:	
DELIVERY DATES:		FY 2008:	MAY-09	FY 2009:	JUN-10	FY 2010:	

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
PRIOR YEARS	2	0.5																	2	0.5
FY 2008 EQUIPMENT			4	0.9															4	0.9
FY 2009 EQUIPMENT					2	0.9													2	0.9
FY 2010 EQUIPMENT							4	1.1											4	1.1
FY 2011 EQUIPMENT																				
FY 2012 EQUIPMENT																				
FY 2013 EQUIPMENT																				
FY 2014 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2007 & Prior	FY 2008				FY 2009				FY 2010																						TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4																			
In	2	2	0	2	0	0	0	0	2	0	2	0	2																			12
Out	2	0	2	0	0	2	0	0	0	2	0	2	0																			10

Remarks: Quantities include (2) MK 29 GMLS ESSM Ordalts per ship for a total of (9) ships

CLASSIFICATION: UNCLASSIFIED																				May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION																				
MODELS OF SYSTEM AFFECTED US006 AMPHIB AAW SELF DEFENSE PRA IMPROVEMENT MK 23 ORDALT KITS						TYPE MODIFICATION:						MODIFICATION TITLE: NATO SEASPARROW								
DESCRIPTION/JUSTIFICATION:																				
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																				
COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS							2	0.7											2	0.7
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT																				
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
TEST SUPPORT								0.2												0.2
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST								0.1												0.1
TOTAL PROCUREMENT								1.0												1.0

CLASSIFICATION: UNCLASSIFIED								**May 2009**
EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)								
MODELS OF SYSTEM AFFECTED AMPHIB AAW SELF DEFENSE PRA IMPROVEMENT MK 23 ORDALT KITS					MODIFICATION TITLE: NATO SEASPARROW			
INSTALLATION INFORMATION:								
METHOD OF IMPLEMENTATION:								
ADMINISTRATIVE LEADTIME:	3 Months		PRODUCTION LEADTIME:	6 Months				
CONTRACT DATES:		FY 2008:		FY 2009:		FY 2010:	APR-10	
DELIVERY DATES:		FY 2008:		FY 2009:		FY 2010:	FEB-11	

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
PRIOR YEARS																				
FY 2008 EQUIPMENT																				
FY 2009 EQUIPMENT																				
FY 2010 EQUIPMENT								0.1												0.1
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2007 & Prior	FY 2008				FY 2009				FY 2010																							TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4																				
In	0	0	0	0	0	0	0	0	0	0	0	0	0																				0
Out	0	0	0	0	0	0	0	0	0	0	0	0	0																				0

Remarks:

CLASSIFICATION:
UNCLASSIFIED

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**		P-1 LINE ITEM NOMENCLATURE RAM GMLS **SUBHEAD NO. A4UR BLI: 5238**
Program Element for Code B Items		Other Related Program Elements

	Prior Years	ID Code		FY 2008	FY 2009	FY 2010						
Quantity	75	A		0	0	0						
COST (In Millions)	639.0	A		4.0	14.6	7.8						
SPARES COST (In Millions)	4.1	0		0.0	1.0	0.2						

PROGRAM DESCRIPTION/JUSTIFICATION:

Rolling Airframe Missile (RAM) - MK-49 Guided Missile Launching System (GMLS): RAM is a cooperative project with the Federal Republic of Germany, produced under a series of production MOUs/MOAs executed between the U.S. and the Federal Republic of Germany. The latest was signed on 18 December 2001.

The MK-31 Guided Missile Weapon System (GMWS) is a lightweight, quick-reaction, high firepower missile system designed to provide anti-ship missile defense. The system is comprised of a MK-44 Guided Missile Round Pack (GMRP) and the MK-49 Guided Missile Launching System (GMLS), which holds 21 RAM missiles. The 21-round launcher is compatible with various platforms ranging from large USN aircraft carriers to S-143 type German patrol boats. This system is designed to counter high density anti-ship, cruise missile raids and provide for ship survivability with accurate terminal guidance, proven lethality and no fire control channel dependence. The SEARAM configuration, which holds 11 RAM missiles, provides Anti-Air Warfare and Anti-Surface Warfare mission capability with a multi-spectral detect, control and engage system.

RAM is installed on or planned for installation on the following ship classes:

CLASS	SHIPS	LAUNCHERS	
LHA (OPN)	5	10	
LSD (OPN)	12	23 (LSD-52 (1 OPN & 1 SCN))	
DD-963 (OPN)	11	11	
LHD (OPN)	4	8	
CV (OPN)	2	4	
CVN (OPN)	7	15	
TRAINER (OPN)**		1	
LBTF-1 (OPN)**		1	
OPN TOTAL	41	73	**(Only 71 shipboard installations)

CLASS	SHIPS	LAUNCHERS	
LHA-R (SCN)	1	2	
LSD (SCN)	1	1	(LSD-52 (1 OPN & 1 SCN))
LHD (SCN)	4	8	
CVN (SCN)	4	8	
LPD-17 (SCN)	10	20	
SCN TOTAL	20	39	

NSWC Port Hueneme provides installation oversight support as the In-Service Engineering Activity (ISEA) for the RAM system.

UR006 RAM MK-49 GMLS
UR006 cost code is for the annual/multi-year procurement of RAM MK-49 Launchers, 11-Round Launchers, ORDALTS, and ECPs.

UR007 RAM GMLS PRODUCTION SUPPORT
UR007 cost code is for GMLS production support.

UR777 RAM ENGINEERING SERVICES (CONTRACTOR)
UR777 cost code is for systems engineering, design agent services and integration.

UR900 RAM PROGRAM SUPPORT
UR900 cost code is for engineering and professional support services.

URCA1 SEARAM GMLS (CONGRESSIONAL ADD)
URCA1 cost code is for Congressional Adds for the procurement of a SeaRAM launcher and the redesign of the Launcher Switching Multiplexer Unit (LSMU).

URCA2 SEARAM GMLS (CONGRESSIONAL ADD)
URCA2 cost code is for the Congressional add for the procurement of a SeaRAM launcher.

UR5IN INSTALL OF EQUIPMENT (FMP)
UR5IN cost code is for installation of RAM GMLS MK-49 Launchers.

UR6IN INSTALL OF EQUIPMENT (NON-FMP)
UR6IN cost code is for installation of RAM GMLS ORDALTS (NON-FMP).

CLASSIFICATION:	UNCLASSIFIED											
EXHIBIT P-5 COST ANALYSIS			Weapon System								DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code	P-1 LINE ITEM NOMENCLATURE **RAM GMLS** **SUBHEAD NO. A4UR**								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2008			FY 2009			FY 2010		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	EQUIPMENT											
UR006	ANNUAL PROCUREMENT											
	RAM MK-49 GMLS	A	274.239	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	MULTIYEAR											
	RAM MK-49 GMLS	A	67.160	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	RAM 11 ROUND GMLS											
	RAM MK-49 GMLS	A	5.543	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	RAM ECPS											
	RAM MK-49 GMLS	A	46.018	0	0.000	0.000	0	0.000	1.228	0	0.000	0.913
	RAM GMLS ORDALTS											
	RAM MK-49 GMLS	A	28.019	0	0.000	0.000	10	0.796	7.957	2	1.500	3.000
UR007	RAM GMLS PRODUCTION SUPPORT	A	54.704	0	0.000	1.633	0	0.000	2.795	0	0.000	2.030
UR777	RAM ENGINEERING SERVICES (CONTRACTOR)	A	44.170	0	0.000	1.420	0	0.000	2.072	0	0.000	1.210
UR900	RAM - CSS	A	10.846	0	0.000	0.585	0	0.000	0.597	0	0.000	0.609
URCA1	SEARAM GMLS	A	5.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
URCA2	ANNUAL PROCUREMENT											
	SEARAM GMLS	A	8.400	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	TOTAL EQUIPMENT		**544.099**			**3.638**			**14.649**			**7.762**

CLASSIFICATION:	UNCLASSIFIED											
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)			Weapon System								DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code	P-1 LINE ITEM NOMENCLATURE **RAM GMLS** **SUBHEAD NO. A4UR**								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2008			FY 2009			FY 2010		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	INSTALLATION											
UR5IN	INSTALL OF EQUIPMENT (FMP)	A	91.520	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
UR6IN	INSTALL OF EQUIPMENT (NON-FMP)	A	3.351	0	0.000	0.400	0	0.000	0.000	0	0.000	0.000
	TOTAL INSTALLATION		**94.871**			**0.400**			**0.000**			**0.000**
	TOTAL		**638.970**			**4.038**			**14.649**			**7.762**

Comment:

Increased ORDALT procurement/installation from FY2009 - 2010 are to accommodate Amphibious AAW Self-Defense Probability of Raid Annihilation (Pra) Improvements.

CLASSIFICATION:	UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				**DATE** **May 2009**	
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**					**P-1 LINE ITEM NOMENCLATURE** **RAM GMLS** **BLIN: 5238**				**SUBHEAD** **A4UR**	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAIL NOW	DATE REVISIONS AVAILABLE
FY 2009										
UR006 RAM GMLS ORDALTS										
RAM MK-49 GMLS	10	0.796	NAVSEA	APR-08	SS/FP	RAYTHEON CO, TUCSON, AZ	DEC-08	SEP-10	YES	
FY 2010										
UR006 RAM GMLS ORDALTS										
RAM MK-49 GMLS	2	1.500	NAVSEA	APR-09	SS/FP	RAYTHEON CO, TUCSON, AZ	NOV-09	AUG-11	YES	

CLASSIFICATION: UNCLASSIFIED			May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION			
MODELS OF SYSTEM AFFECTED UR006 RAM GMLS ORDALTS RAM MK-49 GMLS		TYPE MODIFICATION:	MODIFICATION TITLE: RAM GMLS

DESCRIPTION/JUSTIFICATION:

The Rolling Airframe Missile is a lightweight, quick-reaction, high firepower missile system designed to provide anti-ship missile defense. The system (MK-31 GMWS), is comprised of a MK-44 Guided Missile Round Pack (GMRP) and the MK-49 Guided Missile Launching System (GMLS), which holds 21 RAM missiles. The 21-round launcher is compatible with various platforms, ranging from large USN amphibious assault ships to S-143-type German patrol boats. This system is designed to counter high density anti-ship, cruise missile raids and provide for ship survivability with accurate terminal guidance, proven lethality and no fire control channel dependence. The SeaRAM configuration, which holds 11 RAM missiles, provides Anti-Air Warfare and Anti-Surface Warfare mission capability with a multi-spectral detect, control and engage system.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	41	28.0			10	8.0	2	3.0											53	39.0
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	38	3.3	3	0.4															41	3.7
TOTAL PROCUREMENT		31.3		0.4		8.0		3.0												42.7

CLASSIFICATION: UNCLASSIFIED	May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)	
MODELS OF SYSTEM AFFECTED RAM GMLS ORDALTS RAM MK-49 GMLS	MODIFICATION TITLE: RAM GMLS
INSTALLATION INFORMATION:	
METHOD OF IMPLEMENTATION:	SHIPYARD/AIT
ADMINISTRATIVE LEADTIME: 7 Months	PRODUCTION LEADTIME: 21 Months

CONTRACT DATES:	FY 2008:		FY 2009:	DEC-08	FY 2010:	NOV-09
DELIVERY DATES:	FY 2008:		FY 2009:	SEP-10	FY 2010:	AUG-11

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
PRIOR YEARS	38	3.3	3	0.4															41	3.7
FY 2008 EQUIPMENT																				
FY 2009 EQUIPMENT																				
FY 2010 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2007 & Prior	FY 2008				FY 2009				FY 2010																					TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4																		
In	38	1	2	0	0	0	0	0	0	0	0	0	0																		41
Out	38	0	1	2	0	0	0	0	0	0	0	0	0																		41

Remarks:

CLASSIFICATION:
UNCLASSIFIED

CLASSIFICATION:	UNCLASSIFIED																																	
EXHIBIT P-21, PRODUCTION SCHEDULE																																	DATE: May 2009	
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**																					Weapon System												P-1 LINE ITEM NOMENCLATURE **RAM GMLS BLI: 5238**	
						Production Rate						Procurement Leadtimes																							
Item	Manufacturer's Name and Location					MSR		ECON		MAX		ALT Prior to Oct 1		ALT After Oct 1		Initial Mfg PLT		Reorder Mfg PLT		Total		Unit of Measure											
RAM GMLS ORDALTS	RAYTHEON CO, TUCSON, AZ					8		12		24		0		0		21		21		21		E											
RAM MK-49 GMLS	RAYTHEON CO,TUCSON, AZ					8		12		24		0		0		21		21		21		E											
ITEM	FY	SVC	QTY	DEL	BAL	FISCAL YEAR 2008																FISCAL YEAR 2009											BAL
						CY 2007			CALENDAR YEAR 2008													CALENDAR YEAR 2009											
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
RAM GMLS ORDALTS/RAYTHEON CO, TUCSON, AZ	2006	N	3	0	3		1	1		1																							0
RAM GMLS ORDALTS/RAYTHEON CO, TUCSON, AZ	2009	N	10	0	10															A													10
RAM GMLS ORDALTS/RAYTHEON CO, TUCSON, AZ	2010	N	2	0	2																												2
ITEM	FY	SVC	QTY	DEL	BAL	FISCAL YEAR 2010																											BAL
						CY 2009			CALENDAR YEAR 2010																									
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP																	
RAM GMLS ORDALTS/RAYTHEON CO, TUCSON, AZ	2009	N	10	0	10												2																8
RAM GMLS ORDALTS/RAYTHEON CO, TUCSON, AZ	2010	N	2	0	2		A																										2
Remarks:																																	

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**		P-1 LINE ITEM NOMENCLATURE SHIP SELF DEFENSE SYSTEM **SUBHEAD NO. A4UQ /14UQ BLI: 5239**
Program Element for Code B Items		Other Related Program Elements P.E. 0604755N / 0603582N / 0604307N / 0204413N

	Prior Years	ID Code		FY 2008	FY 2009	FY 2010						
Quantity	33	A/B		9	2	1						
COST (In Millions)	395.9	A/B		29.0	46.5	34.1						
SPARES COST (In Millions)	17.8	0		0.7	1.5	1.9						

PROGRAM DESCRIPTION/JUSTIFICATION:

Note: Above quantity reflects AADS, CNI and SSDS Full Ship System Suites Procurements, does not reflect SSDS COTS Conversion Kits Procurements

SHIP SELF DEFENSE SYSTEM (SSDS) MK0

RAPID ANTI-AIR SHIP MISSILE INTEGRATED DEFENSE SYSTEM (RAIDS) is on board FFG 7 class ships and provides decision support to weapons systems operators. Commercial Off the Shelf technology (COTS) refresh upgrade completed in FY04.

SHIP SELF DEFENSE SYSTEM (SSDS) MK 1

Provides ship self defense capabilities against Anti-Ship Cruise Missiles (ASCM) for LSD 41/49 class ships. It integrates several existing stand-alone sensor and Anti-Air Warfare weapons systems to provide an automated detect-to-engage capability against low flying, high speed ASCMs with low radar cross sections in the littoral environment. System design emphasizes physically distributed non-developmental items, commercial standards and computer program reuse in an open system architecture computer network. It includes a command table that uses components of the Navy s AN/UYQ-70 standard display for human-system interface, commercially available local area network access units and circuit cards, and commercially available fiber optic cabling. SSDS MK 1 requires a COTS obsolescence technology refresh and will transition to Open Architecture (OA) Computing Environment (OACE) beginning with FY10 procurement.

SHIP SELF DEFENSE SYSTEM (SSDS) MK 2

Provides ACDS functionality and SSDS MK1 capabilities with additional weapon and sensor elements. It is integrated with Cooperative Engagement Capability (CEC) and tactical data links to provide joint interoperability for Aircraft Carriers and Amphibious Ships. It provides enhanced capabilities for Force Protection against air, surface, and subsurface threats using both own-ship and remote data in support of the Anti Air Warfare (AAW) Capstone Requirements. SSDS MK2 increases operational capabilities, improves combat readiness and Strike Group and Expeditionary Strike Group interoperability. SSDS MK 2 equips backfit LHDs and CV(N)s with an upgraded Combat System Display Suite which includes AN/UYQ-70s, Automatic Status Boards (ASTABS), Remote ASTAB Controllers, peripheral control stations and Advanced Sensor Distribution System (ASDS), as well as, the SSDS MK 2 computing equipment. Prior year procurement of SSDS MK 2 equipment included shore-based SSDS MK 2 equipment and full combat system suites for the Ship Combat System Center (SCSC), Wallops Island, Virginia; maintenance and operator training equipment at the Center for Surface Combat Systems (CSCS), Dam Neck, Virginia; and an equipment suite for the Self Defense Test Ship (SDTS).

COTS obsolescence technology refresh kits are funded for SSDS MK 2 and SSDS MK 1 in FY08-FY10. In addition to SSDS, this includes Advance Combat Direction System (ACDS) variants in the LHA 4 and LHA 5. These variants require procurement of MOD kits to replace COTS parts that become obsolete and unsupportable. This P-1 line item supports various Commercial Off The Shelf (COTS) based systems used within the combat system. FY08-FY10 COTS Conversion Kits are planned for CVN's/LPD's/LHD's/LSD's and LHA's. The COTS Tech Refresh conversion kits will support Navy Open Architecture computing environment standards to facilitate software reuse.

COMMON NETWORK INTERFACE (CNI)

As the Navy embarks on Navy Open Architecture (OA), Common Network Interface (CNI) has been selected for upgrade on the LHA and LHD ship classes. The program's development included a land based demonstration performed in April 2005 and an at-sea demonstration performed in February 2007. Production commenced in late FY07 with installation spirals planned in FY08 and FY09 for both LHA and LHD Class ships. Future software modifications will continue. CNI is an open interface system that modernizes legacy amphibious ships that support the Expeditionary Strike Group (ESG). CNI uses Commercial Off The Shelf (COTS) hardware and common interoperable software compliant with the Navy's OA standards to integrate the data from ship's sensors, external links, and FORCEnet sources into an operational picture for the war fighter. CNI provides rapid operational capability upgrades via a Rapid Capability Insertion Process (RCIP) using primarily software upgrades. CNI allows for the implementation of the Integrated Architecture Behavior Model (IABM), FORCEnet and Network centric connectivity by providing the necessary fleet support activities which include: systems engineering support, software support, and integrated logistics support (ILS) to ensure proper coordination and connectivity of hardware and software components for accurate operation.

AMPHIBIOUS ASSAULT DIRECTION SYSTEM (AADS) OR AN/KSQ-1

Integrates the Position Location Reporting System (PLRS) or Enhanced PLRS (EPLRS) systems with NAVSTAR Global Positioning System (GPS) via a Global Positioning System Interface Unit (GPSIU) to form a jam/intercept resistant, command and control system which supports the surface assault ship-to-shore movement in amphibious operations. An airborne relay group extends the system range over the horizon to 100 nautical miles. By computing Position Location Information (PLI) for each participant in the PLR / EPLRS net, AADS provides the capability, in near real-time to locate, identify, track, communicate with and control all craft, vehicles and personnel in the net during operations afloat and ashore.

CLASSIFICATION:	UNCLASSIFIED											
EXHIBIT P-5 COST ANALYSIS			Weapon System									DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code **A/B**	P-1 LINE ITEM NOMENCLATURE **SHIP SELF DEFENSE SYSTEM** **SUBHEAD NO. A4UQ /14UQ**								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2008			FY 2009			FY 2010		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	EQUIPMENT											
UQ001	SSDS FULL SHIP SYSTEM SUITE/DISPLAYS											
	CV(N)	A	54.532	0	0.000	0.000	0	0.000	0.000	1	13.499	13.499
	FULL SHIP SYSTEM SUITE/DISPLAYS	A	113.562	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
UQ002	SSDS PRODUCTION SUPPORT		40.827	0	0.000	1.403	0	0.000	1.465	0	0.000	1.499
UQ003	SSDS ECP		3.576	0	0.000	0.165	0	0.000	0.169	0	0.000	0.172
UQ004	SSDS TRAINING		16.373	0	0.000	0.606	0	0.000	0.619	0	0.000	0.630
UQ005	SSDS COTS CONVERSION KITS											
	COTS ENG		25.782	0	0.000	1.262	0	0.000	0.975	0	0.000	0.770
	CONVERSION KITS		36.743	1	10.377	10.377	3	9.616	28.848	1	7.597	7.597
UQ009	CNI											
	LHA/LHD	B	2.514	7	0.143	1.000	0	0.000	0.000	0	0.000	0.000
UQ010	AMPHIBIOUS ASSAULT DIRECTIONAL SYSTEM (AADS)	A	17.032	2	2.163	4.326	2	2.518	5.035	0	0.000	0.009
UQ011	CNI											
	CNI PRODUCTION ENGINEERING SUPPORT	A	0.690	0	0.000	2.436	0	0.000	0.196	0	0.000	0.023
	TOTAL EQUIPMENT		**311.631**			**21.575**			**37.307**			**24.199**
	INSTALLATION											
UQ5IN	SSDS EQUIPMENT INSTALL (FMP)		63.180	0	0.000	3.067	0	0.000	6.772	0	0.000	7.339

CLASSIFICATION:	UNCLASSIFIED											
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)			Weapon System									DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code **A/B**	P-1 LINE ITEM NOMENCLATURE **SHIP SELF DEFENSE SYSTEM** **SUBHEAD NO. A4UQ /14UQ**								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2008			FY 2009			FY 2010		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
UQ6IN	EQUIPMENT INSTALL (NON-FMP)		16.050	0	0.000	0.694	0	0.000	1.022	0	0.000	0.839
UQ7IN	CNI EQUIPMENT INSTALL (FMP)		0.603	0	0.000	1.315	0	0.000	0.645	0	0.000	0.000
UQ8IN	AADS EQUIPMENT INSTALL (FMP)		4.485	0	0.000	2.381	0	0.000	0.803	0	0.000	1.702
	TOTAL INSTALLATION		**84.318**			**7.457**			**9.242**			**9.880**
	TOTAL		**395.949**			**29.032**			**46.549**			**34.079**

CLASSIFICATION:	UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				**DATE May 2009**	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 4					**P-1 LINE ITEM NOMENCLATURE SHIP SELF DEFENSE SYSTEM BLIN: 5239**				**SUBHEAD A4UQ /14UQ**	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAIL NOW	DATE REVISIONS AVAILABLE
FY 2008										
UQ009 CNI										
LHA/LHD	7	0.143	NAVSEA	N/A	C/CPAF	SPAWAR, SAN DIEGO, CA	JAN-08	SEP-08	YES	
UQ010										
AMPHIBIOUS ASSAULT DIRECTIONAL SYSTEM (AADS)	2	2.163	NAVSEA	MAR-07	FFP	RAYTHEON, NJ	OCT-07	MAY-08	YES	
UQ005 SSDS COTS CONVERSION KITS										
CONVERSION KITS	1	10.377	NAVSEA	N/A	FFP	RAYTHEON, SAN DIEGO CA	JAN-08	JAN-09	YES	
FY 2009										
UQ010										
AMPHIBIOUS ASSAULT DIRECTIONAL SYSTEM (AADS)	2	2.518	NAVSEA	MAR-08	FFP	RAYTHEON, NJ	OCT-08	MAY-09	YES	
UQ005 SSDS COTS CONVERSION KITS										
CONVERSION KITS	3	9.616	NAVSEA	N/A	FFP	RAYTHEON, SAN DIEGO CA	JAN-09	JAN-10	YES	
FY 2010										
UQ001 SSDS FULL SHIP SYSTEM SUITE/DISPLAYS										
CV(N)	1	13.499	NAVSEA	N/A	FFP	RAYTHEON, SAN DIEGO CA	JAN-10	JAN-11		
UQ005 SSDS COTS CONVERSION KITS										
CONVERSION KITS	1	7.597	NAVSEA	N/A	FFP	RAYTHEON, SAN DIEGO CA	JAN-10	JAN-11		

Remarks:

SSDS FY08 unit costs are $10,377 for (1) CVN.

SSDS FY09 unit costs are $10,617 for (1) CVN, $8,531 for (1) LPD, and $9,700 for (1) Shore Based System.

SSDS FY10 unit costs are $13,523 for (1) CVN, and $7,597 for (1) LSD.

CLASSIFICATION: UNCLASSIFIED			May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION			
MODELS OF SYSTEM AFFECTED		TYPE MODIFICATION:	MODIFICATION TITLE:
UQ001 SSDS FULL SHIP SYSTEM SUITE/DISPLAYS CV(N)		SHIP SELF DEFENSE SYSTEM	SHIP SELF DEFENSE SYSTEM
DESCRIPTION/JUSTIFICATION:			
SSDS MK 2 implements an evolutionary acquisition of improved ship self defense capabilities against Anti-Ship Cruise Missiles for selected Carrier/Amphibious ships by integrating existing programmed Anti-Air Warfare stand alone systems. It provides an automated reaction and multi-target engagement capability emphasizing performance in the littoral environment. Integration focuses on coordinating existing sensor information, providing threat identification and evaluation, assessing defensive readiness, and recommending optimized defensive tactical response to counter single and multiple Anti-Ship Cruise Missile attacks and battle for interoperability via CEC and tactical data links.			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: MILESTONE III DECISION APPROVED 5 MARCH 1998			

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E		522.1		25.9		30.5		25.7												604.2
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	5	54.5					1	13.5											6	68.0
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS		3.4																		3.4
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER FULL SUITE DISPLAYS	18	113.6																	18	113.6
OTHER PROD TRNG SPT		53.0																		53.0
OTHER NON FMP SPT		15.0																		15.0
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	23	61.4						1.5											23	62.9
TOTAL PROCUREMENT		300.9						15.0												315.9

CLASSIFICATION: UNCLASSIFIED	May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED	MODIFICATION TITLE:
SSDS FULL SHIP SYSTEM SUITE/DISPLAYS CV(N)	SHIP SELF DEFENSE SYSTEM

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:	ALTERATION INSTALLATION TEAM (AIT)						
ADMINISTRATIVE LEADTIME:	2 Months	PRODUCTION LEADTIME:	12 Months				
CONTRACT DATES:		FY 2008:		FY 2009:		FY 2010:	JAN-10
DELIVERY DATES:		FY 2008:		FY 2009:		FY 2010:	JAN-11

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
PRIOR YEARS	23	61.4																	23	61.4
FY 2008 EQUIPMENT																				
FY 2009 EQUIPMENT																				
FY 2010 EQUIPMENT								1.5												1.5
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2007	FY 2008				FY 2009				FY 2010																					TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4																		
In	23	0	0	0	0	0	0	0	0	0	0	0	0																		23
Out	23	0	0	0	0	0	0	0	0	0	0	0	0																		23

* Does not include Non-FMP Installations

* Prior Years are not all CVNs

CLASSIFICATION: UNCLASSIFIED			May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION			
MODELS OF SYSTEM AFFECTED UQ005 SSDS COTS CONVERSION KITS CONVERSION KITS	TYPE MODIFICATION:	MODIFICATION TITLE: SHIP SELF DEFENSE SYSTEM	

DESCRIPTION/JUSTIFICATION:

SSDS MK 2 and SSDS MK 1 Commercial Off The Shelf (COTS) obsolescence technology refresh kits are funded in FY08-FY10. In addition to SSDS, this includes Advance Combat Direction Systems (ACDS) variants for LHA 4 and LHA 5. These variants will be required to refresh COTS parts as they become obsolete and unsupportable. This P-1 line item supports various of COTS based systems used within the combat system. FY08-FY10 COTS Conversion Kits are planned for CV/CVN's/LPD's/LHD's/LSD's and LHA's. The COTS Tech Refresh conversion kits will support Navy Open Architecture Computing Environment (OACE) standards to facilitate software use.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS	9	36.7	1	10.4	3	28.8	1	7.6											14	83.5
MODIFICATION KITS - UNIT COST		4.1		10.4		9.6		7.6												
MODIFICATION NONRECURRING																				
EQUIPMENT																				
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
NON-FMP SHORE SITE INTALL			2	0.7		1.0	1	0.8											3	2.5
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	5	2.8	1	3.1	2	6.1	2	5.8											10	17.8
TOTAL PROCUREMENT		39.5		14.2		35.9		14.2												103.8

CLASSIFICATION: UNCLASSIFIED	May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED	MODIFICATION TITLE:
SSDS COTS CONVERSION KITS CONVERSION KITS	SHIP SELF DEFENSE SYSTEM

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:							
ADMINISTRATIVE LEADTIME:	2 Months	PRODUCTION LEADTIME:	12 Months				
CONTRACT DATES:	FY 2008:	JAN-08	FY 2009:	JAN-09	FY 2010:	JAN-10	
DELIVERY DATES:	FY 2008:	JAN-09	FY 2009:	JAN-10	FY 2010:	JAN-11	

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
PRIOR YEARS	5	2.8	1	2.7	1	2.6													7	8.1
FY 2008 EQUIPMENT				0.5	1	2.4													1	2.9
FY 2009 EQUIPMENT						1.1	2	5.4											2	6.5
FY 2010 EQUIPMENT								0.5												0.5
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2007 & Prior	FY 2008				FY 2009				FY 2010				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	
In	5	0	0	1	0	0	0	1	1	0	1	0	1	10
Out	5	0	0	0	0	1	0	0	1	0	1	1	0	9

Remarks:

CLASSIFICATION:
UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED			May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION			
MODELS OF SYSTEM AFFECTED UQ009 CNI LHA/LHD		TYPE MODIFICATION:	MODIFICATION TITLE: SHIP SELF DEFENSE SYSTEM

DESCRIPTION/JUSTIFICATION:

CNI upgrades the existing system using COTS hardware and common interoperable software compliant with the Navy's Open Architecture standards to integrate the data from ship's sensors, external links, and FORCEnet sources into an operational picture for the war fighter and an output to the legacy ACDS weapons control system.
It is a Commercial Off The Shelf (COTS) Open interface system transitioning to an upgrade that modernizes Combat Systems on legacy amphibious ships, initially LHA and LHD class, which will support the Expeditionary Strike Group (ESG).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	1	2.5	7	1.0															8	3.5
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
PRODUCTION ENG SUPPORT				2.4		0.2														2.6
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	1	1.3	4	1.3	3	0.6													8	3.2
TOTAL PROCUREMENT		3.8		4.7		0.8														9.3

CLASSIFICATION: UNCLASSIFIED	May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)	
MODELS OF SYSTEM AFFECTED CNI LHA/LHD	MODIFICATION TITLE: SHIP SELF DEFENSE SYSTEM
INSTALLATION INFORMATION:	
METHOD OF IMPLEMENTATION:	ALTERATION INSTALLATION TEAM (AIT)
ADMINISTRATIVE LEADTIME: 2 Months	PRODUCTION LEADTIME: 6-12 Months
CONTRACT DATES: FY 2008: JAN-08	FY 2009: FY 2010:
DELIVERY DATES: FY 2008: SEP-08	FY 2009: FY 2010:

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
PRIOR YEARS	1	1.3																	1	1.3
FY 2008 EQUIPMENT			4	1.3	3	0.6													7	1.9
FY 2009 EQUIPMENT																				
FY 2010 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2007 & Prior	FY 2008				FY 2009				FY 2010				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	
In	1	0	0	2	2	0	1	1	1	0	0	0	0	8
Out	1	0	0	2	2	0	1	1	1	0	0	0	0	8

Remarks: CNI LBTS and Trainer systems will not be installed.

CLASSIFICATION: UNCLASSIFIED			May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION			
MODELS OF SYSTEM AFFECTED UQ010 AMPHIBIOUS ASSAULT DIRECTIONAL SYSTEM (AADS)	TYPE MODIFICATION:	MODIFICATION TITLE: SHIP SELF DEFENSE SYSTEM	

DESCRIPTION/JUSTIFICATION:

Amphibious Assault Direction System (AADS) or AN/SKQ-1, which integrates the Position Location Reporting System (PLRS) or Enhanced PLRS (EPLRS) systems with NAVSTAR Global Positioning System (GPS) via a Global Positioning System Interface Unit (GPSIU) to form a jam/intercept resistant, command and control system which supports the surface assault ship-to-shore movement in amphibious operations. An airborne relay group extends the system range over the horizon to 100 nautical miles. By computing Position Location Information (PLI) for each participant in the PLR / EPLRS net, AADS provides the capability, in near real-time to locate, identify, track, communicate with and control all craft, vehicles and personnel in the net during operations afloat and ashore.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	9	17.0	2	4.3	2	5.0		0.1											13	26.4
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	6	4.5	4	2.4	1	0.8	2	1.7											13	9.4
TOTAL PROCUREMENT		21.5		6.7		5.8		1.8												35.8

CLASSIFICATION: UNCLASSIFIED **May 2009**

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED AMPHIBIOUS ASSAULT DIRECTIONAL SYSTEM (AADS)	MODIFICATION TITLE: SHIP SELF DEFENSE SYSTEM

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:	ALTERATON INSTALLATION TEAM (AIT)						
ADMINISTRATIVE LEADTIME:	2 Months	PRODUCTION LEADTIME:	10 Months				
CONTRACT DATES:		FY 2008:	OCT-07	FY 2009:	OCT-08	FY 2010:	
DELIVERY DATES:		FY 2008:	MAY-08	FY 2009:	MAY-09	FY 2010:	

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS	6	4.5	3	1.8					9	6.3
FY 2008 EQUIPMENT			1	0.6	1	0.8			2	1.4
FY 2009 EQUIPMENT							2	1.7	2	1.7
FY 2010 EQUIPMENT										
TO COMPLETE										

INSTALLATION SCHEDULE

	FY 2007	FY 2008				FY 2009				FY 2010				TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	
In	6	1	1	1	1	0	0	1	0	1	1	0	0	13
Out	6	1	1	1	1	0	0	1	0	1	1	0	0	13

Remarks:

CLASSIFICATION:
UNCLASSIFIED

CLASSIFICATION:	UNCLASSIFIED											
Exhibit P-40, BUDGET ITEM JUSTIFICATION									DATE May 2009			
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**						P-1 LINE ITEM NOMENCLATURE AEGIS SUPPORT EQUIPMENT **SUBHEAD NO. 14L7 BLI: 5246**						
Program Element for Code B Items						Other Related Program Elements 0604307N						
	Prior Years	ID Code		FY 2008	FY 2009	FY 2010						
Quantity	0			0	0	0						
COST (In Millions)	640.6	A		88.7	89.2	108.9						
SPARES COST (In Millions)	19.3	0		8.5	10.4	13.9						

PROGRAM DESCRIPTION/JUSTIFICATION:

1. This program provides equipment for shore facilities and for shipboard upgrades to support the battle readiness of AEGIS Cruisers and Destroyers in the following areas:

a. Special Tooling and Test Equipment for AEGIS unique depots;
b. Computer, displays and simulators for the Integrated Warfare Systems Laboratory (IWSL) at Dahlgren, VA;
c. Weapon/Combat System equipments for the Surface Combat Systems Center (SCSC) at Wallops Island, VA;
d. Weapon System Training equipment for the AEGIS Training & Readiness Center (ATRC) at Dahlgren, VA;
e. AEGIS Weapon System ship change procurement;
f. Class Common Equipment to support shorter Regular Overhauls and Selected Restricted Availabilities.
Includes Weapon and Ship System Components that require long repair turn-around;
g. CG/DDG - COTS Refresh for AWS equipments;
h. ISC - COTS Tech Refresh
i. Shipboard equipment and ORDALT installation;
j. Combat Support ShipAlts to reconstitute CIWS onboard Flight 2A DDGs; and
k. Computer Program/Software Licenses provide required infrastructure foundation for computer maintenance, LBTS for certification and field activity system engineering support.
l. Congressional Add - AEGIS Land Based Test Site Upgrades

2. The FY 2008-10 funds will be used to upgrade three centers (Integrated Warfare Systems Laboratory, AEGIS Training & Readiness Center, and Surface Combat Systems Center) to properly accommodate CG 47 and DDG 51 Combat System Baselines and to provide ship changes for existing Cruiser and Destroyer Baselines. Funding is also for the installation of equipment including the Fleet Modernization Program, training equipment, and other shore facilities. These include,

among others, the following major Weapon/Combat systems:

Description	Applicable Hulls
CG Baseline 2	
CG Baseline 1 Plus	F/F CG 52 - CG 58
Tomahawk Weapon System	
Anti-Submarine Warfare Upgrade SQQ-89	
MK 41 Vertical Launch System in place of MK 26	
CG Baseline 3A	
CG Baseline 2 plus	B/F CG 59 - CG 64
SPY-1B RADAR in place of SPY-1A	
UYQ-21 Displays in place of UYA-4	
Backfit UYK-43 (LoBoy)/44 Computers	
CG Baseline 4	
CG Baseline 3 plus	F/F CG 65 - CG 73
Vertical Launch ASROC	
SM-2 Missile Upgrade	
UYK-43/44 Computers in place of UYK-7/20S	
CG Baseline 6.1	
CG Baseline 4 plus	B/F CGS 59, 65, 66,
CEC, ADS MK 6 MOD 2,	68, 69 & 71
UYQ-70 Partial, NGP/Optical Disk,	
Armed Helo, SGS, SARTIS	
CG Baseline 7.1.C	
CG Baseline 2, 3, 4, & 6 plus	B/F CG 52 - 73
Advanced Combat Systems Architecture	
Service Life Extension	

DDG Baseline 4

CG Baseline 3 plus F/F DDG 51- DDG 67
SPY-1D RADAR in place of SPY-1B
MK 160 Gun Computing System in place of MK 86
UYK-43/44 Computers in place of UYK-7/20S

DDG Baseline 5

DDG Baseline 4 plus F/F DDG 68 - DDG 78
Joint Tactical Information Distribution
System (JTIDS/Command & Control (C2P)
Combat Direction Finding (CDF)
Tactical Data Information Exchange System (TADIX B)TAC
AN/SLQ-32(V) 3 Active Electronic Countermeasures (ECM)
Aegis Extended Range (ER) Missile

DDG Baseline 6 Phase 1

DDG Baseline 5 plus F/F DDG 79 - DDG 84
ORTS Upgrade, ECM Upgrade, ACTS Rehost
SQQ-89 (V) 10, ATWCS Phase 2
AN/UYQ-70, Doppler SONAR Velocity

DDG Baseline 6 Phase 3

DDG Baseline 6 Phase 1 plus F/F DDG 85 - DDG 90
Upgrades to AN/UYQ-70 Display Suite B/F DDG 79 - DDG 84
Upgrades to ORTS, CEC, NAVSSI Blk III,
CDLMS, JTT, ESSM, STAMO Mods, SPY Mods,
SGS InLine, VDDS, 600+ CPCRs, and
for F/F only SQQ-89(V)14 & ALIS

DDG Baseline 7 Phase 1

Full COTS Advanced Computing	F/F DDG 91 - DDG 102
SPY-1D(V) Littoral Radar	
SQQ-89(V)15	
AN/UYQ-70	
DDG Baseline 7 Phase 1R	F/F DDG 103-112
Full COTS Advanced Computing	
SPY-1D(V) Littoral Radar	
SQQ-89 (V)15	
AN/UYQ-70	

CLASSIFICATION:	UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS			Weapon System AEGIS WEAPON SYSTEM							DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code **A**	P-1 LINE ITEM NOMENCLATURE **AEGIS SUPPORT EQUIPMENT** **SUBHEAD NO. 14L7**							
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS								
			Prior Years	FY 2008			FY 2009			FY 2010	
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	EQUIPMENT											
L7001	DEPOT SPECIAL TOOLING/TEST EQUIP		15.126	0	0.000	3.298	0	0.000	3.330	0	0.000	3.366
L7003	AEGIS COMPUTER CENTER EQUIP		21.397	0	0.000	3.273	0	0.000	4.482	0	0.000	3.821
L7005	SMARTSHIP (INTEGRATED SHIP CONTROLS)		142.446	3	8.254	24.761	0	0.000	0.000	2	8.153	16.306
L7006	SURFACE COMBAT SYSTEMS CENTER EQPT		19.516	0	0.000	2.457	0	0.000	2.422	0	0.000	2.375
L7007	AEGIS TRAINING & READINESS CENTER		15.521	0	0.000	2.483	0	0.000	2.422	0	0.000	2.353
L7011	AEGIS WEAPON SYS SHIP CHANGE DOC PROCUREMENT		218.599	0	0.000	10.825	0	0.000	9.739	0	0.000	3.901
L7013	CLASS COMMON EQUIPMENT		13.196	0	0.000	4.568	0	0.000	3.101	0	0.000	3.681
L7025	CG/DDG COTS TECH REFRESH		0.000	0	0.000	0.939	4	3.764	15.056	4	3.707	14.828
L7026	ISC COTS TECH REFRESH		5.000	5	0.993	4.965	2	2.117	4.234	3	1.378	4.133
L7027	COMPUTER PROGRAM/SOFTWARE LICENSES		0.000	0	0.000	0.000	0	0.000	0.000	24	0.799	19.169
L7070	COMBAT SUPPORT SHIPALTS		28.679	4	0.570	2.280	2	0.568	1.135	2	0.576	1.151
L7600	INSTALLATION OF EQPT, FMP		155.796	0	0.000	27.247	0	0.000	39.239	0	0.000	33.802
L7CA4	SITE EQUIPMENT PLUS-UP		5.300	0	0.000	1.600	0	0.000	4.000	0	0.000	0.000
	TOTAL EQUIPMENT		**640.576**			**88.696**			**89.160**			**108.886**

CLASSIFICATION:	UNCLASSIFIED											
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)			Weapon System AEGIS WEAPON SYSTEM									DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code **A**	P-1 LINE ITEM NOMENCLATURE **AEGIS SUPPORT EQUIPMENT** **SUBHEAD NO. 14L7**								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2008			FY 2009			FY 2010		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	TOTAL		**640.576**			**88.696**			**89.160**			**108.886**

CLASSIFICATION:	UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System AEGIS WEAPON SYSTEM				**DATE** **May 2009**	
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**					**P-1 LINE ITEM NOMENCLATURE** **AEGIS SUPPORT EQUIPMENT** **BLIN: 5246**				**SUBHEAD** **14L7**	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAIL NOW	DATE REVISIONS AVAILABLE
FY 2008										
L7005										
SMARTSHIP (INTEGRATED SHIP CONTROLS)	3	8.254	NAVSEA	JUL-05	FP	HENSCHEL, NEWBURYPORT, MA	FEB-08	SEP-08	YES	
L7026										
ISC COTS TECH REFRESH	5	0.993	NSWC PHILA	MAY-08	FP	INTERGRAPH, HUNTSVILLE AL	JUN-08	SEP-08	YES	
L7070										
COMBAT SUPPORT SHIPALTS	4	0.570	SUPSHIP BATH	NOV-07	OPTION	BIW, MAINE	MAR-08	SEP-08	YES	
FY 2009										
L7025										
CG/DDG COTS TECH REFRESH	4	3.764	NAVSEA	NOV-08	BOA	LOCKHEED MARTIN, NJ & MN	MAR-09	NOV-09	YES	
L7026										
ISC COTS TECH REFRESH	2	2.117	NSWC PHILA	MAY-08	FP	INTERGRAPH, HUNTSVILLE AL	JUN-09	SEP-09		
L7070										
COMBAT SUPPORT SHIPALTS	2	0.568	SUPSHIP BATH	NOV-08	OPTION	BIW, MAINE	MAR-09	SEP-09	YES	
FY 2010										
L7005										
SMARTSHIP (INTEGRATED SHIP CONTROLS)	2	8.153	NAVSEA	JUL-05	FP	HENSCHEL, NEWBURYPORT, MA	FEB-10	SEP-10	YES	
L7025										
CG/DDG COTS TECH REFRESH	4	3.707	NAVSEA	NOV-08	BOA	LOCKHEED MARTIN, NJ & MN	MAR-10	NOV-10		
L7026										
ISC COTS TECH REFRESH	3	1.378	NSWC PHILA	MAY-08	FP	INTERGRAPH, HUNTSVILLE AL	JUN-10	SEP-10		
L7027										
COMPUTER PROGRAM/SOFTWARE LICENSES	24	0.799	NAVSEA	NOV-09	TBD	VARIOUS	MAR-10	SEP-10		
L7070										
COMBAT SUPPORT SHIPALTS	2	0.576	SUPSHIP BATH	NOV-09	OPTION	BIW, MAINE	MAR-10	SEP-10		
Remarks: L7025 (DDG COTS Refresh) - Funds are provided on Delivery Orders under a Basic Ordering Agreement.										

CLASSIFICATION: UNCLASSIFIED																			May 2009	
EXHIBIT P-3A INDIVIDUAL MODIFICATION																				
MODELS OF SYSTEM AFFECTED L7005 SMARTSHIP (INTEGRATED SHIP CONTROLS)						TYPE MODIFICATION:						MODIFICATION TITLE: AEGIS SUPPORT EQUIPMENT								
DESCRIPTION/JUSTIFICATION:																				
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																				
COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	11	142.4	3	24.8			2	16.3											16	183.5
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	10	43.9	1	11.8	3	25.9		3.5											14	85.1
TOTAL PROCUREMENT		186.3		36.6		25.9		19.8												268.6

CLASSIFICATION: UNCLASSIFIED																								May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)																								
MODELS OF SYSTEM AFFECTED SMARTSHIP (INTEGRATED SHIP CONTROLS)														MODIFICATION TITLE: AEGIS SUPPORT EQUIPMENT										
INSTALLATION INFORMATION:																								
METHOD OF IMPLEMENTATION:								PUBLIC & PRIVATE SHIPYARD AVAILABILITIES; AIT																
ADMINISTRATIVE LEADTIME:					2 Months								PRODUCTION LEADTIME:				6-8 Months							
CONTRACT DATES:									FY 2008:			FEB-08			FY 2009:				FY 2010:			FEB-10		
DELIVERY DATES:									FY 2008:			SEP-08			FY 2009:				FY 2010:			SEP-10		

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS	10	43.1	1	8.0															11	51.1
FY 2008 EQUIPMENT	AP	0.8	AP	3.8	3	25.4													3	30.0
FY 2009 EQUIPMENT																				
FY 2010 EQUIPMENT					DSA	0.5	AP	3.5												4.0

INSTALLATION SCHEDULE

	FY 2007	FY 2008				FY 2009				FY 2010																				TOTAL	
	& Prior	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		
In	10	0	0	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Out	10	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14

Remarks:

CLASSIFICATION: UNCLASSIFIED				May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION				
MODELS OF SYSTEM AFFECTED L7011 AEGIS WEAPON SYS SHIP CHANGE DOC PROCUREMENT		TYPE MODIFICATION: AWS SHIPALTS	MODIFICATION TITLE: AEGIS SUPPORT EQUIPMENT	
DESCRIPTION/JUSTIFICATION:				
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:				

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT		218.6		10.8		9.7		3.9												243.0
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST		13.7		7.5		6.0		7.7												34.9
TOTAL PROCUREMENT		232.3		18.3		15.7		11.6												277.9

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED AEGIS WEAPON SYS SHIP CHANGE DOC PROCUREMENT	MODIFICATION TITLE: AEGIS SUPPORT EQUIPMENT
INSTALLATION INFORMATION:	
METHOD OF IMPLEMENTATION:	PUBLIC & PRIVATE SHIPYARD AVAILABILITIES; AIT
ADMINISTRATIVE LEADTIME: 1-2 Months	PRODUCTION LEADTIME: 12 Months
CONTRACT DATES:	FY 2008: FY 2009: FY 2010:
DELIVERY DATES:	FY 2008: FY 2009: FY 2010:

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS		13.7		7.5																21.2
FY 2008 EQUIPMENT						6.0														6.0
FY 2009 EQUIPMENT								7.7												7.7
FY 2010 EQUIPMENT																				

INSTALLATION SCHEDULE

	FY 2007	FY 2008				FY 2009				FY 2010																		TOTAL	
	& Prior	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		
In	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Remarks:

CLASSIFICATION: UNCLASSIFIED																			May 2009	
EXHIBIT P-3A INDIVIDUAL MODIFICATION																				
MODELS OF SYSTEM AFFECTED L7025 CG/DDG COTS TECH REFRESH						TYPE MODIFICATION:						MODIFICATION TITLE: AEGIS SUPPORT EQUIPMENT								
DESCRIPTION/JUSTIFICATION:																				
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																				
COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT				0.9	4	15.1	4	14.8											8	30.8
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST							4	13.9											4	13.9
TOTAL PROCUREMENT				0.9		15.1		28.7												44.7

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED CG/DDG COTS TECH REFRESH					MODIFICATION TITLE: AEGIS SUPPORT EQUIPMENT			
INSTALLATION INFORMATION:								
METHOD OF IMPLEMENTATION:	PUBLIC & PRIVATE SHIPYARD AVAILABILITIES; AIT							
ADMINISTRATIVE LEADTIME:	1-2 Months	PRODUCTION LEADTIME:	6-12 Months					
CONTRACT DATES:		FY 2008:		FY 2009:	MAR-09	FY 2010:	MAR-10	
DELIVERY DATES:		FY 2008:		FY 2009:	NOV-09	FY 2010:	NOV-10	

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																				
FY 2008 EQUIPMENT																				
FY 2009 EQUIPMENT							4	10.0											4	10.0
FY 2010 EQUIPMENT							AP	3.9												3.9

INSTALLATION SCHEDULE

	FY 2007	FY 2008				FY 2009				FY 2010																					TOTAL
	& Prior	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		
In	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Out	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4

Remarks:

CLASSIFICATION: UNCLASSIFIED																				May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION																				
MODELS OF SYSTEM AFFECTED L7026 ISC COTS TECH REFRESH						TYPE MODIFICATION:						MODIFICATION TITLE: AEGIS SUPPORT EQUIPMENT								
DESCRIPTION/JUSTIFICATION:																				
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																				
COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT		5.0	5	5.0	2	4.2	3	4.1											10	18.3
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST					2	0.6	3	0.6											5	1.2
TOTAL PROCUREMENT		5.0		5.0		4.8		4.7												19.5

CLASSIFICATION: UNCLASSIFIED	**May 2009**

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED ISC COTS TECH REFRESH				MODIFICATION TITLE: AEGIS SUPPORT EQUIPMENT			
INSTALLATION INFORMATION:							
METHOD OF IMPLEMENTATION:							
ADMINISTRATIVE LEADTIME:	2 Months	PRODUCTION LEADTIME:	4 Months				
CONTRACT DATES:	FY 2008:	JUN-08	FY 2009:	JUN-09	FY 2010:	JUN-10	
DELIVERY DATES:	FY 2008:	SEP-08	FY 2009:	SEP-09	FY 2010:	SEP-10	

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																				
FY 2008 EQUIPMENT																				
FY 2009 EQUIPMENT					2	0.6													2	0.6
FY 2010 EQUIPMENT							3	0.6											3	0.6

INSTALLATION SCHEDULE

	FY 2007 & Prior	FY 2008				FY 2009				FY 2010																					TOTAL
		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		
In	0	0	0	0	0	0	1	1	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Out	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

Remarks:

CLASSIFICATION:
UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED																			May 2009	
EXHIBIT P-3A INDIVIDUAL MODIFICATION																				
MODELS OF SYSTEM AFFECTED L7070 COMBAT SUPPORT SHIPALTS						TYPE MODIFICATION:						MODIFICATION TITLE: AEGIS SUPPORT EQUIPMENT								
DESCRIPTION/JUSTIFICATION:																				
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																				
COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	12	28.7	4	2.3	2	1.1	2	1.2											20	33.3
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	10	15.7	3	5.9	3	3.9	3	6.3											19	31.8
TOTAL PROCUREMENT		44.4		8.2		5.0		7.5												65.1

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED COMBAT SUPPORT SHIPALTS	MODIFICATION TITLE: AEGIS SUPPORT EQUIPMENT

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:	PUBLIC & PRIVATE SHIPYARD AVAILABILITIES; AIT						
ADMINISTRATIVE LEADTIME:	1-2 Months	PRODUCTION LEADTIME:	5-6 Months				
CONTRACT DATES:		FY 2008:	MAR-08	FY 2009:	MAR-09	FY 2010:	MAR-10
DELIVERY DATES:		FY 2008:	SEP-08	FY 2009:	SEP-09	FY 2010:	SEP-10

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS	10	15.7	2	4.5															12	20.2
FY 2008 EQUIPMENT			1	0.5	3	3.5													4	4.0
FY 2009 EQUIPMENT			AP	0.9	AP	0.4	2	3.5											2	4.8
FY 2010 EQUIPMENT							1	1.7											1	1.7
							AP	1.1												1.1

INSTALLATION SCHEDULE

	FY 2007 & Prior	FY 2008				FY 2009				FY 2010																					TOTAL
		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		
In	10	0	1	2	0	0	2	0	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Out	8	1	1	2	1	0	0	2	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19

Remarks:

BUDGET ITEM JUSTIFICATION SHEET P-40													DATE: May 2009
APPROPRIATION/BUDGET ACTIVITY: **OTHER PROCUREMENT, NAVY BA 4 - Ordnance Support Ordnance**							P-1 ITEM NOMENCLATURE: **525300, TOMAHAWK SUPPORT EQUIPMENT**						
Program Element for Code B Items:							Other Related Program Elements: **0204229N**						
	Prior Years	ID Code	FY 2008	FY 2009	FY 2010								
Quantity													
Cost ($M)	**136.9**	A	**54.7**	**55.3**	**88.5**								
Initial Spares ($M)	**3.0**		**0.8**	**0.2**	**0.6**								
Total ($M)	**139.9**		**55.5**	**55.5**	**89.0**								
Unit Cost ($M)													

Submarine Weapons Control System (WCS) Product Improvement (02002) - provides for Commercial Off the Shelf/Government Off The Shelf (COTS/GOTS) refreshment, engineering changes, software upgrades, and associated SSN logistics updates to maintain compatibility and interoperability with existing and future systems. Provides software required to utilize Selective Availability Anti-Spoofing Module (SAASM) Global Systems Positioning (GPS) Capabilities by Tactical Tomahawk Weapons Control System (TTWCS) modifications. Provides software and hardware to support integration and interface testing.

Surface Weapon Control System Product Improvement (06002) - provides for the COTS/GOTS refreshment, engineering changes, software support, installation, logistics, and infrastructure to maintain compatibility and interoperability with existing and future systems. Required to utilize SAASM GPS Capabilities by TTWCS.

Installation of Equipment (07001) - installation of Tactical Tomahawk Communications (TCOMMS) and TTWCS through FY09.

Tomahawk Command and Control System (TC2S) Product Improvements (08000) - provides for hardware and software modifications to Tomahawk Weapons System (TWS) Command and Control and related products. Funds provide for systems engineering, testing, Independent Verification & Validation (IV&V), Security Accreditation, installation, Site Acceptance Testing (SAT), user familiarization of products and hardware to support command and control nodes. The funds provide for integration, modernization and interoperability efforts necessary to keep pace with changes, retain capability and exploit capabilities of internal (TWS All-Up-Round Missile and Tactical Tomahawk Weapons Control System) and external (Modernized Integrated Data Base (MIDB)), National Geospatial Agency (NGA) products, Distributed Common Ground Systems (DCGS) Integrated Backbone (DIB) compliance, Future Imagery Architecture (FIA) imagery formats and Intelligence Surveillance & Reconnaissance (ISR) interfaces, Network Centric Enterprise Services (NCES), Global Information Grid/Internet Protocol (GIG/IP) (V)6, FORCEnet and Net Ready-Key Performance Parameters (KPP) compliance systems/interfaces that are critical to the effectiveness of the TWS. The Selective Availability Anti-Spoofing Module (SAASM) GPS capability, workflow improvements to Mission Planning, Strike Planning & Execution and TWS Single System Initiative are included in this line to transition to a Service Oriented Architecture, improve TCS "Kill Chain" planning and communications architecture and system effectiveness. Afloat Planning System (APS), a shipboard based version of TC2S, is included in this line.

WEAPONS SYSTEM COST ANALYSIS **P-5**			Weapon System										DATE: **May 2009**		
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy/BA 4 - Ordnance Support Equipment**			ID Code **A**	P-1 ITEM NOMENCLATURE/SUBHEAD **525300, TOMAHAWK SUPPORT EQUIPMENT/J45C**											
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS Prior Years	FY 2008			FY 2009			FY 2010					
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost			
02002	WCS PRODUCT SUPPORT		12,861												
5C220	TACTICAL TOMAHAWK WEAPONS CONTROL SYSTEM HARDWARE		0			421			462			2,366			
5C700	PRODUCT IMPROVEMENTS (TTWCS)		0			4,729			6,242			32,356			
5C800	INTEGRATED LOGISTICS SUPPORT		0			8,264			18,115			19,147			
5C820	PRODUCTION SUPPORT		0			9,203			7,469			10,721			
5C830	PRODUCTION ENGINEERING		0			16,849			18,274			22,781			
5C890	OTHER COSTS *1		0			2,309			2,543			1,104			
5C910	FMP INSTALLATIONS *2		0			12,936			2,207						
06001	TACTICAL TOMAHAWK WEAPONS CONTROL SYSTEM	A	20,655												
06002	WCS PRODUCT SUPPORT		20,586												
07001	INSTALLATION OF EQUIPMENT FMP		18,773												
08000	TOMAHAWK COMMAND AND CONTROL SYSTEM (TC2S) PROD IMP		56,008												
08001	TACTICAL TOMAHAWK COMMUNICATIONS (TCOMMS)	A	5,030												
08002	TOMAHAWK BLK IV INTEGRATED TRAINING ARCHITECTURE		3,000												
			136,913			**54,711**			**55,312**			**88,475**			**0**

*1 Other Costs include system test activity.

*2 Installation of Equipment accounts for installs of TCOMMS and TTWCS through FY09.

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**		P-1 LINE ITEM NOMENCLATURE VERTICAL LAUNCH SYSTEMS **SUBHEAD NO. A45A / H45A BLI: 5260**
Program Element for Code B Items		Other Related Program Elements

	Prior Years	ID Code		FY 2008	FY 2009	FY 2010						
Quantity	0			0	0	0						
COST (In Millions)	24.7	A		6.8	5.6	5.5						
SPARES COST (In Millions)	2.6	0		0.9	0.9	0.9						

PROGRAM DESCRIPTION/JUSTIFICATION:

SUBMARINES

The SSN-688 Class Vertical Launch System (VLS) is a weapons system which provides the SSN-688 Class submarines with the capability to carry, status, preset, and launch up to twelve TOMAHAWK cruise missiles from vertical tubes located in the forward non-pressure hull area. This weapons system was added to SSN-688 Class submarines starting with SSN-719 in FY 86 without degrading any existing SSN-688 Class weapons system capabilities or submarine operational characteristics. The VLS launches TOMAHAWK conventional land attack cruise missiles. The TOMAHAWK cruise missile was modified to allow operation in a vertical orientation. VLS was procured and installed under the SCN appropriation. VLS support, test, and handling equipment are provided by this budget line item.

The AUR Simulator is a test and training device that is loaded into a missile tube to simulate an operational encapsulated TOMAHAWK vertical All Up Round (AUR) allowing the VLS to be exercised through the launch phase without actually launching a missile. The AUR Simulator consists of an AUR Electronic Simulator enclosed in a Volumetric Shape. The AUR Electronic Simulator (AURES) simulates the AUR operations either while installed in the Volumetric Shape or in the stand-alone mode via electrical umbilical connection. The Volumetric Shape simulates the weight and shape of an operational AUR, provides a watertight, pressure-proof enclosure for the AURES, and interfaces with the missile tube in a manner similar to an operational AUR so that no damage to the tube will occur during simulation. The missile tube bore gauge is used to verify the proper missile tube clear bore to ensure compatibility with the TOMAHAWK AUR. The AUR loader is a funnel-shaped device which mounts to the missile tube muzzle face. It acts as a guide for the AUR and provides the mechanism to push the AUR down during loading and pull the AUR out of the missile tube during unloading. The Missile Tube Control Panel (MTCP) (SSN 719-725, 750) and the Tube Control Panel (TCP) (SSN 751-773) display the status of the missile tubes, controls the operation of the missile tube hatches, and displays the status of various subsystems.
Legacy items include procurement of Peculiar Support Equipment (PSE) All Up Round Volumetric Shapes, procurement of PSE support equipment, MK 101 Mod 5 upgrade, hydraulics block upgrade modification and hall switch modifications.
Two TCP modifications have been combined. Also, two fairing modifications have been combined.
Long-term changes include improving the AURVS cable, the AURVS Junction Box and Ballast Can covers due to removal problems with existing plug. Improved

Ballast Can pads. Platform tent. Commencement of a Mod 5 MK 101 upgrade. Special test equipment. Hall switch upgrade. Improved Fairing Lock Cylinder modification. Hydraulic Actuator pipe flange modification.

SURFACE

The MK-41 Vertical Launching System (VLS) is a surface combatant missile launching system, designed to store, select and launch various STANDARD Missile configurations, TOMAHAWK, Tactical TOMAHAWK, EVOLVED SEASPARROW (ESSM) and Vertical Launch ASROC (VLA) missiles. The MK-41 VLS significantly improves missile capacity, flexibility, multi-mission capability, reaction time and rate of fire and is designed to be adaptable to present and future weapon systems. Current configurations are: two 61 cell launchers, forward and aft, for 22 TICONDEROGA (CG 47) Class Cruisers beginning with CG-52; one 61 cell aft and one 29 cell launcher forward for 28 ARLEIGH BURKE (DDG 51) Class Destroyers; and one 64 cell launcher aft and one 32 cell launcher forward for 34 DDG 51 FLT IIA ships.

The OPN requirements are to procure ORDALT kits and fund sustaining engineering support for fleet issue investigations to identify safety issues.

CLASSIFICATION:	UNCLASSIFIED											
EXHIBIT P-5 COST ANALYSIS			Weapon System									DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code **A**	P-1 LINE ITEM NOMENCLATURE **VERTICAL LAUNCH SYSTEMS** **SUBHEAD NO. A45A / H45A**								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2008			FY 2009			FY 2010		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	EQUIPMENT											
5A003	VLS ORDALTS											
	VLS ORDALTS	A	5.740	0	0.000	0.429	0	0.000	0.434	0	0.000	0.449
5A830	PRODUCTION ENGINEERING											
	PRODUCTION ENGINEERING	A	1.352	0	0.000	0.225	0	0.000	0.249	0	0.000	0.242
5A101	AUR ELECTRONIC SIMULATOR											
	AURVS HARDWARE	A	0.000	4	0.071	0.285	0	0.000	0.000	1	0.050	0.050
	SHAPE/SKID ASSEMBLY	A	0.000	0	0.000	0.000	0	0.000	0.000	2	0.350	0.700
	IMPROVED AURVS CABLE	A	0.612	20	0.013	0.260	23	0.014	0.322	5	0.014	0.070
	IMPROVED AURVS JUNCTION BOX	A	0.453	20	0.009	0.180	23	0.010	0.230	0	0.000	0.000
	IMPROVED BALLAST CAN COVERS	A	0.599	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	IMPROVED BALLAST CAN PADS	A	0.475	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	IMPROVED PLATFORM TENT	A	0.135	5	0.008	0.040	0	0.000	0.000	0	0.000	0.000
	AURVS CABLE HEADER INSERT	A	0.000	0	0.000	0.000	0	0.000	0.000	9	0.001	0.005
5A102	AUR ELECTRONIC SIMULATOR											
	TACTICAL TOMAHAWK KIT MOD 4	A	0.281	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	MOD 5 TBD	A	1.018	47	0.029	1.363	40	0.033	1.324	12	0.048	0.580
5A107	LOADING SUPPORT EQUIPMENT											
	MISCELLANEOUS SUPPORT EQUIPMENT	A	0.385	0	0.000	0.224	0	0.000	0.072	0	0.000	0.127
5A116	FACILITY HARDWARE											
	FACILITY HARDWARE	A	0.428	0	0.000	0.136	0	0.000	0.255	0	0.000	0.087

CLASSIFICATION:	UNCLASSIFIED											
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)			Weapon System									DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code **A**	P-1 LINE ITEM NOMENCLATURE **VERTICAL LAUNCH SYSTEMS** **SUBHEAD NO. A45A / H45A**								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2008			FY 2009			FY 2010		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
5A118	SHIPALT MATERIAL											
	4293KP TCP PHASE II	A	4.197	2	0.304	0.608	0	0.000	0.000	0	0.000	0.000
	4292 FAIRING BLOCK UPGRADE	A	2.374	3	0.203	0.609	3	0.205	0.615	4	0.210	0.840
	HALL SWITCH	A	0.871	6	0.072	0.432	1	0.072	0.072	8	0.072	0.576
	(TBD) MTCP EQUIVALENT OF 4293	A	1.920	2	0.190	0.380	0	0.000	0.000	0	0.000	0.000
	TCP CIRCUIT CARD FIELD CHANGES	A	0.800	0	0.000	0.000	0	0.000	0.000	6	0.125	0.750
	TOTAL EQUIPMENT		**21.640**			**5.171**			**3.573**			**4.476**
	INSTALLATION											
5A5IN	INSTALL OF EQUIPMENT N86	A	0.146	0	0.000	0.051	0	0.000	0.052	0	0.000	0.052
5A6IN	NON-FMP INSTALLATIONS	A	0.000	0	0.000	0.192	0	0.000	0.198	0	0.000	0.000
5AINS	INSTALL OF EQUIPMENT N87	A	2.865	0	0.000	1.370	0	0.000	1.804	0	0.000	0.985
	TOTAL INSTALLATION		**3.011**			**1.613**			**2.054**			**1.037**
	TOTAL		**24.651**			**6.784**			**5.627**			**5.513**

CLASSIFICATION:	UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 4					P-1 LINE ITEM NOMENCLATURE VERTICAL LAUNCH SYSTEMS BLIN: 5260				SUBHEAD A45A / H45A	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAIL NOW	DATE REVISIONS AVAILABLE
FY 2008										
5A101 AUR ELECTRONIC SIMULATOR										
IMPROVED AURVS CABLE	20	0.013	NUWC		WR	NUWC NEWPORT, RI	NOV-07	SEP-08	YES	
IMPROVED AURVS JUNCTION BOX	20	0.009	NUWC		WR	NUWC NEWPORT, RI	NOV-07	SEP-08	YES	
IMPROVED PLATFORM TENT	5	0.008	NUWC		WR	NUWC NEWPORT, RI	NOV-07	SEP-08	YES	
AURVS HARDWARE	4	0.071	NUWC		WR	NUWC NEWPORT, RI	NOV-07	SEP-08	YES	
5A102 AUR ELECTRONIC SIMULATOR										
MOD 5 TBD	47	0.029	NUWC		WR	NUWC NEWPORT, RI	NOV-07	SEP-08	YES	
5A118 SHIPALT MATERIAL										
4293KP TCP PHASE II	2	0.304	NUWC		WR	NUWC NEWPORT, RI	NOV-07	APR-09	YES	
4292 FAIRING BLOCK UPGRADE	3	0.203	NUWC		WR	NUWC NEWPORT, RI	NOV-07	APR-09	YES	
HALL SWITCH	6	0.072	NUWC		WR	NUWC NEWPORT, RI	NOV-07	APR-09	YES	
(TBD) MTCP EQUIVALENT OF 4293	2	0.190	NUWC		WR	NUWC NEWPORT, RI	NOV-07	APR-09	YES	
FY 2009										
5A101 AUR ELECTRONIC SIMULATOR										
IMPROVED AURVS CABLE	23	0.014	NUWC		WR	NUWC NEWPORT, RI	NOV-08	SEP-09	YES	
IMPROVED AURVS JUNCTION BOX	23	0.010	NUWC		WR	NUWC NEWPORT, RI	NOV-08	SEP-09	YES	
5A102 AUR ELECTRONIC SIMULATOR										
MOD 5 TBD	40	0.033	NUWC		WR	NUWC NEWPORT, RI	NOV-08	SEP-09	YES	
5A118 SHIPALT MATERIAL										
4292 FAIRING BLOCK UPGRADE	3	0.205	NUWC		WR	NUWC NEWPORT, RI	NOV-08	APR-10	YES	
HALL SWITCH	1	0.072	NUWC		WR	NUWC NEWPORT, RI	NOV-08	APR-10	YES	
FY 2010										
5A101 AUR ELECTRONIC SIMULATOR										
SHAPE/SKID ASSEMBLY	2	0.350	NUWC		WR	NUWC NEWPORT, RI	NOV-09	SEP-10	YES	
IMPROVED AURVS CABLE	5	0.014	NUWC		WR	NUWC NEWPORT, RI	NOV-09	SEP-10	YES	

CLASSIFICATION:	UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				**DATE May 2009**	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 4					**P-1 LINE ITEM NOMENCLATURE VERTICAL LAUNCH SYSTEMS BLIN: 5260**				**SUBHEAD A45A / H45A**	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAIL NOW	DATE REVISIONS AVAILABLE
AURVS CABLE HEADER INSERT	9	0.001	NUWC		WR	NUWC NEWPORT, RI	NOV-09	SEP-10	YES	
AURVS HARDWARE	1	0.050	NUWC		WR	NUWC NEWPORT, RI	NOV-09	SEP-10	YES	
5A102 AUR ELECTRONIC SIMULATOR										
MOD 5 TBD	12	0.048	NUWC		WR	NUWC NEWPORT, RI	NOV-09	SEP-10	YES	
5A118 SHIPALT MATERIAL										
4292 FAIRING BLOCK UPGRADE	4	0.210	NUWC		WR	NUWC NEWPORT, RI	NOV-09	APR-11	YES	
HALL SWITCH	8	0.072	NUWC		WR	NUWC NEWPORT, RI	NOV-09	APR-11	YES	
TCP CIRCUIT CARD FIELD CHANGES	6	0.125	NUWC		WR	NUWC NEWPORT, RI	NOV-09	APR-11	YES	

CLASSIFICATION: UNCLASSIFIED																				May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION																				
MODELS OF SYSTEM AFFECTED 5A003 VLS ORDALTS VLS ORDALTS						TYPE MODIFICATION:						MODIFICATION TITLE: VERTICAL LAUNCH SYSTEMS								
DESCRIPTION/JUSTIFICATION:																				
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																				
COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT		5.7		0.4		0.4		0.4												6.9
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER PRODUCTION		1.4		0.2		0.2		0.2												2.0
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST		0.1		0.1		0.1		0.1												0.4
TOTAL PROCUREMENT		7.2		0.7		0.7		0.7												9.3

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED VLS ORDALTS VLS ORDALTS	MODIFICATION TITLE: VERTICAL LAUNCH SYSTEMS
INSTALLATION INFORMATION:	
METHOD OF IMPLEMENTATION:	AIT
ADMINISTRATIVE LEADTIME:	8 Months
PRODUCTION LEADTIME:	17 Months
CONTRACT DATES:	FY 2008: / FY 2009: / FY 2010:
DELIVERY DATES:	FY 2008: / FY 2009: / FY 2010:

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
PRIOR YEARS	VAR	0.1	VAR	0.1																0.2
FY 2008 EQUIPMENT					VAR	0.1														0.1
FY 2009 EQUIPMENT							VAR	0.1												0.1
FY 2010 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2007	FY 2008				FY 2009				FY 2010																		TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4															
In	0	0	0	0	0	0	0	0	0	0	0	0	0															0
Out	0	0	0	0	0	0	0	0	0	0	0	0	0															0

Remarks:

CLASSIFICATION: UNCLASSIFIED																					May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION																					
MODELS OF SYSTEM AFFECTED 5A118 SHIPALT MATERIAL (TBD) MTCP EQUIVALENT OF 4293						TYPE MODIFICATION: K ALT						MODIFICATION TITLE: VERTICAL LAUNCH SYSTEMS									
DESCRIPTION/JUSTIFICATION: This Mod Facilities Maintenance of the TCP																					
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																					
COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL		
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$	
FINANCIAL PLAN(IN MILLIONS)																					
RDT&E																					
PROCUREMENT																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	6	1.9	2	0.4															8	2.3	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	4	0.6	2	0.3	2	0.4													8	1.3	
TOTAL PROCUREMENT		2.5		0.7		0.4														3.6	

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED SHIPALT MATERIAL (TBD) MTCP EQUIVALENT OF 4293	MODIFICATION TITLE: VERTICAL LAUNCH SYSTEMS
INSTALLATION INFORMATION:	
METHOD OF IMPLEMENTATION:	

ADMINISTRATIVE LEADTIME:	8 Months	PRODUCTION LEADTIME:	17 Months			
CONTRACT DATES:		FY 2008:	NOV-07	FY 2009:		FY 2010:	
DELIVERY DATES:		FY 2008:	APR-09	FY 2009:		FY 2010:	

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
PRIOR YEARS	4	0.6	2	0.3															6	0.9
FY 2008 EQUIPMENT					2	0.4													2	0.4
FY 2009 EQUIPMENT																				
FY 2010 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2007	FY 2008				FY 2009				FY 2010																		TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4															
In	4	0	0	1	1	0	0	1	1	0	0	0	0															8
Out	0	0	0	1	3	0	0	2	1	0	0	1	0															8

Remarks:

CLASSIFICATION: UNCLASSIFIED			May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION			
MODELS OF SYSTEM AFFECTED 5A118 SHIPALT MATERIAL 4292 FAIRING BLOCK UPGRADE		TYPE MODIFICATION: K ALT	MODIFICATION TITLE: VERTICAL LAUNCH SYSTEMS
DESCRIPTION/JUSTIFICATION:			
This alteration modifies the VLS fairing to Muzzle Hatch conecting links with predominantly off-shelf hardware to provide increased accuracy of adjustment and eliminate potential binding and interference areas.			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:			

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	7	2.4	3	0.6	3	0.6	4	0.8											17	4.4
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	4	0.8	2	0.5	2	0.5	2	0.5											10	2.3
TOTAL PROCUREMENT		3.2		1.1		1.1		1.3												6.7

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED SHIPALT MATERIAL 4292 FAIRING BLOCK UPGRADE	MODIFICATION TITLE: VERTICAL LAUNCH SYSTEMS
INSTALLATION INFORMATION:	
METHOD OF IMPLEMENTATION:	

ADMINISTRATIVE LEADTIME:	8 Months	PRODUCTION LEADTIME:	17 Months					
CONTRACT DATES:		FY 2008:	NOV-07	FY 2009:	NOV-08	FY 2010:	NOV-09	
DELIVERY DATES:		FY 2008:	APR-09	FY 2009:	APR-10	FY 2010:	APR-11	

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
PRIOR YEARS	4	0.8	2	0.5	1	0.2													7	1.5
FY 2008 EQUIPMENT					1	0.3	2	0.5											3	0.8
FY 2009 EQUIPMENT																				
FY 2010 EQUIPMENT																				

INSTALLATION SCHEDULE

	FY 2007	FY 2008				FY 2009				FY 2010																		TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4															
In	4	0	0	1	1	0	0	1	1	0	2	0	0															10
Out	1	0	1	2	0	2	0	1	1	0	0	0	2															10

Remarks:

CLASSIFICATION: UNCLASSIFIED			May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION			
MODELS OF SYSTEM AFFECTED 5A118 SHIPALT MATERIAL 4293KP TCP PHASE II	TYPE MODIFICATION: KP SHIPALT	MODIFICATION TITLE: VERTICAL LAUNCH SYSTEMS	
DESCRIPTION/JUSTIFICATION:			
THIS MOD FACILITATES MAINTENANCE OF THE TCP. FY06 Install Cost includes $225K for Design Services Agent(DSA)tasks. MODELS: SSN 751-773 PLUS 2 SHORE SITES			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:			

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	23	4.2	2	0.6															25	4.8
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	16	3.1	2	0.5	3	0.7	2	0.5											23	4.8
TOTAL PROCUREMENT		7.3		1.1		0.7		0.5												9.6

CLASSIFICATION: UNCLASSIFIED	May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED	MODIFICATION TITLE:
SHIPALT MATERIAL 4293KP TCP PHASE II	VERTICAL LAUNCH SYSTEMS

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:	AIT						
ADMINISTRATIVE LEADTIME:	8 Months	PRODUCTION LEADTIME:	17 Months				
CONTRACT DATES:		FY 2008:	NOV-07	FY 2009:		FY 2010:	
DELIVERY DATES:		FY 2008:	APR-09	FY 2009:		FY 2010:	

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
PRIOR YEARS	16	3.1	2	0.5	3	0.7	2	0.5											23	4.8
FY 2008 EQUIPMENT																				
FY 2009 EQUIPMENT																				
FY 2010 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2007	FY 2008				FY 2009				FY 2010																					TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4																		
In	16	0	0	2	0	0	0	1	2	0	0	1	1																		23
Out	11	2	1	2	2	0	0	1	2	0	0	1	1																		23

Remarks:

CLASSIFICATION: UNCLASSIFIED			May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION			
MODELS OF SYSTEM AFFECTED 5A118 SHIPALT MATERIAL HALL SWITCH		TYPE MODIFICATION: K ALT	MODIFICATION TITLE: VERTICAL LAUNCH SYSTEMS
DESCRIPTION/JUSTIFICATION:			
This alteration replaces internal glass-body electromechanical read switches with an electronic Hall Effect switch actuated by a single pole magnetic field to provide ease of manufacture, eliminate magnet rotational positioning of present magnets, and allow use of higher reliability magnets better suited to the environment.			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:			

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	12	0.9	6	0.4	1	0.1	8	0.6											27	2.0
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	5	0.3	3	0.2	4	0.4													12	0.9
TOTAL PROCUREMENT		1.2		0.6		0.5		0.6												2.9

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED SHIPALT MATERIAL HALL SWITCH	MODIFICATION TITLE: VERTICAL LAUNCH SYSTEMS
INSTALLATION INFORMATION:	
METHOD OF IMPLEMENTATION:	

ADMINISTRATIVE LEADTIME:	8 Months		PRODUCTION LEADTIME:	17 Months				
CONTRACT DATES:		FY 2008:	NOV-07	FY 2009:	NOV-08	FY 2010:	NOV-09	
DELIVERY DATES:		FY 2008:	APR-09	FY 2009:	APR-10	FY 2010:	APR-11	

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
PRIOR YEARS	5	0.3	3	0.2	4	0.4													12	0.9
FY 2008 EQUIPMENT																				
FY 2009 EQUIPMENT																				
FY 2010 EQUIPMENT																				

INSTALLATION SCHEDULE

	FY 2007	FY 2008				FY 2009				FY 2010																		TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4															
In	5	0	0	1	2	0	0	2	2	0	0	0	0															12
Out	0	0	0	0	4	4	0	2	2	0	0	0	0															12

Remarks:

CLASSIFICATION: UNCLASSIFIED																					May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION																					
MODELS OF SYSTEM AFFECTED 5A118 SHIPALT MATERIAL TCP CIRCUIT CARD FIELD CHANGES						TYPE MODIFICATION: K ALT						MODIFICATION TITLE: VERTICAL LAUNCH SYSTEMS									
DESCRIPTION/JUSTIFICATION: This Mod Facilities Maintenance of the TCP																					
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																					
COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL		
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$	
FINANCIAL PLAN(IN MILLIONS)																					
RDT&E																					
PROCUREMENT																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	6	0.8					6	0.8											12	1.6	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST																					
TOTAL PROCUREMENT		0.8						0.8												1.6	

BUDGET ITEM JUSTIFICATION SHEET	DATE May 2009

APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE
Other Procurement, Navy Budget Activity 4 - Ordnance Support Equipment	Strategic Missile Systems Equipment (535800)

	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
QUANTITY	N/A	N/A	N/A					
Cost (in millions)	$136.9	$118.5	$155.6					

The SSP funding in this P-1 line provides for the procurement of Strategic Weapons System (SWS) equipment for deployed SSBNs and shore support sites to support the TRIDENT II (D5) program. Included are shipboard subsystem equipment modernization and technical refresh efforts associated with the TRIDENT II (D-5) life extension program. TRIDENT II SSBN hull life has been extended 15 years, extending system life to FY 2042.

OTHER MATERIAL SUPPORT

A broad range of other material support equipment must be procured for deployed SSBNs, shore installations and contractor facilities. Included within this category are general and special purpose test equipment, launcher expendables, navigation principal items, test instrumentation in support of missile flight tests, and missile checkout equipment. Amounts included within this P-1 line for this category are subdivided as follows:

$000	FY 2008	FY 2009	FY 2010
Launcher and Handling Equipment	28,540	11,904	27,559
Fire Control Equipment	3,129	3,240	3,249
Navigation Equipment	0	0	702
Instrumentation/Missile Checkout Equipment	1,902	2,167	2,211
Total	**$33,571**	**$17,311**	**$33,721**

Launcher and Handling Equipment: Funding is required to procure Launcher Expendables (namely, MK-74 Gas Generators and related production support). FY 2008 funding supports Gas Generator production and Launch Tube Closures production and re-qualification. FY 2009 funding provides for Gas Generator production and Launch Tube vendor qualification. Funding in FY2010 provides for requalification of Launch Tube closure production and Low Rate Initial Production (LRIP) of 13 deliverable closures.

Fire Control Equipment: Funding in FY2010 provides for the refresh of Commercial Off-the-Shelf (COTS) Fire Control Equipment and for continued NIROP capital maintenance. Funding in FY 2008 - FY 2009 provides for procurement of MK-98 Mod 6 Fire Control System and Support Equipment replacement items onboard SSBNs and at shore sites and for Capital Maintenance Projects at the Naval Industrial Reserve Ordnance Plant (NIROP) in Pittsfield, MA. These projects are essential to correct environmental, safety, and energy conservation deficiencies.

Navigation Equipment: Funding in FY 2010 provides for procurement of Electrostatically Supported Gyro (ESG) components and supporting equipment. Funding is required for technical refresh and replacement of worn or damaged inertial test equipment used at contractors' plants to support test, evaluation, and analysis of inertial instruments; and for procurement of critical components essential to maintain configuration control and equipment reliability.

Instrumentation/Missile Test Equipment: Funding in all years provides for shore based and shipboard test instrumentation equipment in support of missile flight tests and for procurement of surface support equipment end items to satisfy replacement requirements generated by fleet-related tactical activities. Funding in FY 2010 provides for procurement of umbilical shipsets used to replace umbilicals after approximately 20 years of use to ensure reliability. Procured at rate of one shipset per year.

ALTERATIONS

Alterations to non-flying tactical hardware are continuing requirements for the Strategic Weapons System (SWS). Requirements primarily relate to shipboard investments in Commercial-off-the-Shelf/Non-Developmental Items (COTS/NDI) SWS subsystem equipment, including periodic refresh cycles, to ensure continued reliable performance of the weapon system for its extended service life through FY 2042. Alterations (SPALTs) also entail the application of available technology to eliminate personnel safety hazards, correct design deficiencies, maintain system effectiveness by resolving equipment operability problems, achieve logistic economies, and provide for shipboard subsystem D5 life extension modernization efforts. Amounts included in this P-1 line for alterations are subdivided as follows:

$000	FY 2008	FY 2009	FY 2010
Launcher and Handling Equipment	1,490	14,775	10,117
Fire Control Equipment	45,270	17,879	34,198
Navigation Equipment	46,427	55,328	57,236
Instrumentation/Missile Checkout Equipment	685	689	5,274
Total	**$93,872**	**$88,671**	**$106,825**

Funds are required to procure formula-generated alterations to the Strategic Weapons System launcher and fire control subsystems; to inertial, non-inertial, and Electrostatically Supported Gyro Navigator (ESGN) navigation subsystem equipment on deployed SSBNs and installed at supporting shore facilities, including the TRIDENT Training Facility (TTF), Bangor, TTF, Kings Bay, the Ashore Navigation Center, and the Inertial System Test Laboratory; to test instrumentation used on SSBNs, support ships and at the Eastern Test Range, the TRIDENT Refit Facility (TRF), Bangor, and TRF, Kings Bay; and to missile handling equipment, missile test and readiness equipment, and surface support equipment. Installation of approved SPALTs is performed on a turnkey basis in conjunction with the procurement of equipment. Use of Commercial-off-the-Shelf/Non-Developmental Items (COTS/NDI) has been initiated and is being implemented in all subsystems, wherever possible.

Launcher and Handling Equipment: Funding provides for launcher and handling equipment alterations to address aging and obsolescence issues. FY 2008 provides for continued launcher firing unit system upgrade production and for minor Launcher SPALTS. FY 2009 funding provides for continued launcher firing unit system production and for the D-5 Hoist major SPALT. Funding in FY 2010 provides for Launcher Initiation System (LIS) and Launcher alterations, due to response to launcher service Life Assessment results.

Fire Control Equipment: Funding in all years will allow for implementation of life-cycle cost control initiatives aimed at the integration of TRIDENT II SWS subsystem equipment into the Fire Control system, leveraging off of the MK-98 Mod 4 Fire Control design to implement the first phase of TRIDENT II Shipboard Systems Integration (SSI) architecture. The product of these SWS integration efforts will be implementation of an affordable design to meet all operational requirements, while minimizing total ownership costs. FY 2008 and FY 2009 funding provides for production costs of the submarine MOD 6 SPALT kits. FY 2010 funding provides for technology research, commercial market surveys, concept and preliminary design, and pre-production of FCS LCCC/Technology SPALTS. FY 2010 initiates cancellation of SSBN Planning and Operational Flexibility (SPOF) program.

Navigation Equipment: The FY 2008 through FY 2009 funding provides for Navigation equipment alterations that will address aging and obsolescence issues by providing for procurement of an updated navigation system capable of economically supporting the TRIDENT II SWS throughout its extended service life. Funding also provides for continued Shipboard Systems Integration. Funding in FY 2010 provides for Increment 4 Tech Refresh production costs, Electrostatically Supported Gyro Navigator (ESGN) replacement development, and Navigation Error Co-variance Matrix (NECM) for new navigator. This also provides for test efforts for Selective Availability and Anti-Spoofing Module (SAASM) Global Positioning System (GPS) Receivers and GPS Antenna Redesign to accommodate SAASM GPS Receiver. FY 2010 funding will cover costs to conduct SSI Increment 4 and 8 software and documentation activities for tech refresh GPS, software integration and test readiness, and test results reviews.

Instrumentation/Missile Equipment: Budgeted in all years are the formula-generated alterations to Instrumentation/Missile Checkout equipment. FY 2010 funding provides for MTRE Refresh development to be kept in sync with the fire control switch away from 1553 bus. New MTRE replaces obsolete CPU 68000, additional memory, and replacement of the 1553 communications with Fire Control. FY 2010 provides for the modification of software as part of the MTRE Refresh.

TRAINING SUPPORT EQUIPMENT

This category provides for procurement of, and alterations to, both tactical and non-tactical equipment required at submarine training facilities to train personnel in the operation and maintenance of launcher and handling, fire control, navigation, missile checkout, and test instrumentation subsystems. Each training facility consists of an integrated family of system and unit laboratories that interface with a central stimulation complex to provide complete and realistic training for replacement and off-crew personnel, both officer and enlisted, as required for manning of SSBNs and shore facilities. Funding is budgeted to procure training-unique equipment required as the result of alterations to SWS tactical equipment, including those associated with D-5 life extension.

Funds are required for software and hardware design modification, lab documentation modification, facility modification, and design and system integration, as well as procurement and fabrication of all hardware needed to support Navigation and Fire Control subsystem training at both the TRIDENT Training Facility (TTF), Bangor, and at TTF, Kings Bay. The required effort includes upgrade of the Bangor and Kings Bay Navigation and Fire Control trainers from Shipboard System Integration (SSI) increment 4, Integration of Fire Control SSI Increment 4 PC Simulation, and for the development of the Virtual Strategic Weapons System (SWSD) classroom trainers. Funding also addresses the need for acquisition of upgrades to the Bangor and Kings Bay TTFs resulting from tactical changes in the TRIDENT II (D5) missile under the Life Extension (LE) program.

($000)

	FY 2008	FY 2009	FY2010
Training Support Equipment	**$9,451**	**$12,482**	**$15,033**

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) PROGRAM COST BREAKDOWN						DATE: May 2009		
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy Budget Activity 4 - Ordnance Support Equipment		P-1 ITEM NOMENCLATURE/SUBHEAD Strategic Missile Systems Equipment / 34U9 Total Cost in Thousands of Dollars						
WEAPON SYSTEM COST ELEMENTS	Ident. Code	FY 08 Qty	Total Cost	FY 09 Qty	Total Cost	FY 10 Qty	Total Cost	
Other Material Support			33,571		17,311		33,721	
Launcher and Handling Equipment		28,540		11,904		27,559		
Fire Control Equipment		3,129		3,240		3,249		
Navigation Equipment		0		0		702		
Instrumentation/Missile Checkout Equipment		1,902		2,167		2,211		
Alterations			93,872		88,671		106,825	
Launcher and Handling Equipment		1,490		14,775		10,117		
Fire Control Equipment		45,270		17,879		34,198		
Navigation Equipment		46,427		55,328		57,236		
Instrumentation/Missile Checkout Equipment		685		689		5,274		
Training Support Equipment			9,451		12,482		15,033	
Total			**$136,894**		**$118,464**		**$155,579**	

P-1 SHOPPING LIST

ITEM NO. **PAGE NO.**

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CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**	P-1 LINE ITEM NOMENCLATURE SSN COMBAT CONTROL SYSTEMS **SUBHEAD NO. H4VB BLI: 5420**	
Program Element for Code B Items	Other Related Program Elements	

	Prior Years	ID Code		FY 2008	FY 2009	FY 2010						
Quantity	0			0	0	0						
COST (In Millions)	404.0	A		113.3	97.7	118.5						
SPARES COST (In Millions)	0.0	0		4.5	3.7	4.5						

PROGRAM DESCRIPTION/JUSTIFICATION:

VB011 - COMBAT SYSTEMS TECHNOLOGY REFRESH / LEGACY INTEGRATION

Procures tactical control hardware upgrades to SSN688, SSN688I, SSN 21, and SSBN Class submarines for legacy combat control systems. These updates provide accelerated delivery of tactical capability to the fleet and bridge the gap between legacy combat control systems and AN/BYG-1. Procures Engineering Changes (EC) and Ordnance Alterations (ORDALT) to correct fleet reported problems with legacy Combat Control System software and hardware. In FY06, funds are also provided for weapon launch systems technology insertion and Virginia Class automation/manning reduction technology.

VB034 - SUBMARINE COMBAT CONTROL SYSTEM MODERNIZATION PROGRAM

This cost code procures hardware and software upgrades for the AN/BYG-1 system for installation on all submarine platforms. The AN/BYG-1 is the combat control system common across all submarine platforms (except SSBN 726 Class) which incorporates tactical control, weapon control and Tactical Local Area Network (TacLAN) functions into a single procurement program. AN/BYG-1 allows the submarine Navy to rapidly update the ship safety tactical picture, integrates the common tactical picture into the battlegroup, improves torpedo interfaces and provides tactical TOMAHAWK capability. AN/BYG-1 systems will be continuously updated with hardware enhancements to address COTS obsolescence and capability improvements as defined by the Advanced Processor Build (APB) process. These updates are referred to as Tech Insertion (TI) kits and are differentiated by year of development (i.e. TI00, TI04, etc). The TI upgrades provide the baseline for all future AN/BYG-1 procurements. In addition, this budget also provides tech insertion "kits" to update existing AN/BYG-1 platforms.

The AN/BYG-1 nomenclature was adopted in FY05 and out to incorporate the addition of Virginia Class Combat Control System to a common acquisition and development strategy. This allows for AN/BYG-1 to be the common combat control system nomenclature across all submarine platforms (except SSBN 726 Class). SSBN 726 Class submarines will be modernized with CCS MK2 Block 1C systems which are removed from SSN 688 Class submarines prior to installation of AN/BYG-1. The AN/BYG-1 nomenclature, with biennial technology insertion designation (i.e. BYG-1 (TI04)), replaces the CCS Mk2 Block 1C ECP4 nomenclature.

VB500 - PRODUCTION / ENGINEERING SUPPORT

This is a new cost code beginning in FY05 combining production support and logistics support cost codes into one common support code.

VB900 - CONSULTING SERVICES

This account provides assistance for asset management, cost analyses, preparation of contract specifications, monitoring of contract deliverables, prime contractor cost, schedule and performance monitoring, ILS planning and GFI coordination.

VB995 - INITIAL TRAINING

This provides initial training curriculum development, training management materials, exercise control group development, pilot services to the Fleet.

VB5NS - EQUIPMENT INSTALLATION

Funds are for the installation of Combat Control System equipments included in the Fleet Modernization Program.

VB6NS - NON-FMP INSTALLATION

Funds are for post-installation checkout and verification following installation of FMP items.

SSGN SUSTAINING SUPPORT

This category provides for the life-cycle operational support of SSGN weapons systems for the four OHIO-class SSGNs (including spares and repair parts). Funding is also procuring the I/O common trainer at Kings Bay, GA to support all critical MAC/AUR/AWSS O-level ship's force training requirements and key MAC/AUR I-level training requirements. OPN sustaining support funding provides for SSGN logistics acquisition support and for Attack Weapon Control System (AWCS) alterations that provide technical refresh updates to the AWCS and to two shore-based trainers located at Kings Bay, GA and Bangor, WA. Logistics acquisition support will provide material for the waterfront 9 Cog load list necessary to outfit SSGNs for sustained patrol. The AWCS alterations will provide technical refresh upgrades to the Tactical TOMAHAWK Weapon Control Systems (T-TWCS) necessary to ensure the long-term safety, reliability and maintainability of the Fire Control subsystem.

OTHER INFORMATION

Developmental efforts are funded by Program Element 0604562N within the SSN Combat Control System Improvement Program F0236.

CLASSIFICATION:	UNCLASSIFIED											
EXHIBIT P-5 COST ANALYSIS			Weapon System								DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code **A**	P-1 LINE ITEM NOMENCLATURE **SSN COMBAT CONTROL SYSTEMS** **SUBHEAD NO. H4VB**								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2008			FY 2009				FY 2010	
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	EQUIPMENT											
VB011	COMBAT SYSTEM TECH REFRESH / LEGACY INTEGRATION											
	ECP/AUXILLARY EQUIPMENT / INTEGRATION	A	0.287	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	RAPID TACTICAL INSERTION (RTI)	A	0.331	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	SABT	A	10.785	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	TACLAN/IA/SWS NRE	A	33.962	0	0.000	9.400		0.000	5.198		0.000	13.294
	WEAPON LAUNCH SYSTEMS TECH INSERTION	A	1.700	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	MANNING REDUCTION	A	1.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	SCJC2	A	1.300	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
VB034	AN/BYG-1 TI-04 AND LATER SYSTEMS											
	SSN 688 CLASS	A	74.665	4	5.426	21.704	4	5.535	22.140	1	5.646	5.646
	SSN21 CLASS	A	19.500	1	1.652	1.652	0	0.000	0.000	0	0.000	0.000
	SSGN CLASS	A	18.273	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
VB034	CCS MK2 BLOCK 1C											
	SSBN CLASS	A	4.005	1	0.591	0.591	1	0.601	0.601	2	0.612	1.223
VB034	COMMON WEAPON LAUNCHER											
	COMMON WEAPON LAUNCHER	A	0.000	0	0.000	0.000	0	0.000	0.000	3	2.601	7.803
VB034	TECHNOLOGY INSERTION (TI00/TI02 BASELINE)											
	SSN688 CLASS	A	17.533	4	2.596	10.384	2	2.648	5.296	0	0.000	0.000
	SSN774 CLASS	A	3.000	0	0.000	0.000	0	0.000	0.000	1	6.171	6.171

CLASSIFICATION:	UNCLASSIFIED											
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)			Weapon System								DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code **A**	P-1 LINE ITEM NOMENCLATURE **SSN COMBAT CONTROL SYSTEMS** **SUBHEAD NO. H4VB**								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2008			FY 2009			FY 2010		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	UPGRADES FROM TI04 AND OUT BASELINE											
	SSN688 CLASS	A	0.000	3	1.652	4.956	1	1.685	1.685	5	2.701	13.505
	SSGN CLASS	A	0.000	0	0.000	0.000	0	0.000	0.000	1	2.701	2.701
	SSN21 CLASS	A	0.000	0	0.000	0.000	1	1.685	1.685	0	0.000	0.000
VB500	PRODUCTION ENGINEERING SUPPORT		8.321	0	0.000	2.440	0	0.000	2.489	0	0.000	3.056
VB5NS	EQUIPMENT INSTALLATION (FMP)		164.355	0	0.000	47.343	0	0.000	45.329	0	0.000	48.904
VB6NS	NON FMP EQUIPMENT INSTALLATION		31.732	0	0.000	5.271	0	0.000	5.355	0	0.000	5.772
VB900	CONSULTING SERVICES		3.440	0	0.000	1.277	0	0.000	1.301	0	0.000	1.513
VB995	INITIAL TRAINING		3.786	0	0.000	1.124	0	0.000	1.148	0	0.000	1.483
VB997	SSGN SUSTAINING SUPPORT		5.976	0	0.000	7.129	0	0.000	5.494	0	0.000	7.457
	TOTAL EQUIPMENT		**403.951**			**113.271**			**97.721**			**118.528**
	TOTAL		**403.951**			**113.271**			**97.721**			**118.528**

CLASSIFICATION:	UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 4					P-1 LINE ITEM NOMENCLATURE SSN COMBAT CONTROL SYSTEMS BLIN: 5420				SUBHEAD H4VB	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAIL NOW	DATE REVISIONS AVAILABLE
FY 2008										
VB034 AN/BYG-1 TI-04 AND LATER SYSTEMS										
SSN 688 CLASS	4	5.426	NAVSEA		C/VARIOUS	VARIOUS	DEC-07	DEC-08		NOV-07
SSN21 CLASS	1	1.652	NAVSEA		C/VARIOUS	VARIOUS	DEC-07	DEC-08		NOV-07
VB034 CCS MK2 BLOCK 1C										
SSBN CLASS	1	0.591	NAVSEA		C/VARIOUS	VARIOUS	DEC-07	DEC-08		NOV-07
VB034 TECHNOLOGY INSERTION (TI00/TI02 BASELINE)										
SSN688 CLASS	4	2.596	NAVSEA		C/VARIOUS	VARIOUS	DEC-07	DEC-08		NOV-07
VB034 UPGRADES FROM TI04 AND OUT BASELINE										
SSN688 CLASS	3	1.652	NAVSEA		C/VARIOUS	VARIOUS	DEC-07	DEC-08		NOV-07
FY 2009										
VB034 AN/BYG-1 TI-04 AND LATER SYSTEMS										
SSN 688 CLASS	4	5.535	NAVSEA		C/VARIOUS	VARIOUS	DEC-08	DEC-09		NOV-08
VB034 CCS MK2 BLOCK 1C										
SSBN CLASS	1	0.601	NAVSEA		C/VARIOUS	VARIOUS	DEC-08	DEC-09		NOV-08
VB034 TECHNOLOGY INSERTION (TI00/TI02 BASELINE)										
SSN688 CLASS	2	2.648	NAVSEA		C/VARIOUS	VARIOUS	DEC-08	DEC-09		NOV-08
VB034 UPGRADES FROM TI04 AND OUT BASELINE										
SSN688 CLASS	1	1.685	NAVSEA		C/VARIOUS	VARIOUS	DEC-08	DEC-09		NOV-08
SSN21 CLASS	1	1.685	NAVSEA		C/VARIOUS	VARIOUS	DEC-08	DEC-09		NOV-08
FY 2010										
VB034 AN/BYG-1 TI-04 AND LATER SYSTEMS										
SSN 688 CLASS	1	5.646	NAVSEA		C/VARIOUS	VARIOUS	DEC-09	DEC-10		
VB034 COMMON WEAPON LAUNCHER										
COMMON WEAPON LAUNCHER	3	2.601	NAVSEA		C/VARIOUS	VARIOUS	DEC-09	DEC-10		
VB034 CCS MK2 BLOCK 1C										

CLASSIFICATION:	UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				**DATE May 2009**	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 4					**P-1 LINE ITEM NOMENCLATURE SSN COMBAT CONTROL SYSTEMS BLIN: 5420**				**SUBHEAD H4VB**	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAIL NOW	DATE REVISIONS AVAILABLE
SSBN CLASS	2	0.612	NAVSEA		C/VARIOUS	VARIOUS	DEC-09	DEC-10		
VB034 TECHNOLOGY INSERTION (TI00/TI02 BASELINE)										
SSN774 CLASS	1	6.171	NAVSEA		C/VARIOUS	VARIOUS	DEC-09	DEC-10		
VB034 UPGRADES FROM TI04 AND OUT BASELINE										
SSN688 CLASS	5	2.701	NAVSEA		C/VARIOUS	VARIOUS	DEC-09	DEC-10		
SSGN CLASS	1	2.701	NAVSEA		C/VARIOUS	VARIOUS	DEC-09	DEC-10		

Remarks:

AN/BYG-1 Shipset consist of the following: 4 ECDWS (TacLan Tech Insertion), 1 0r 2 MFS (based on the configuration), 1 HDW, 1 PCK, 1 CO Workstation, 1 Flat Panel, 1 EWS, 1 Video Distro, 1 Software License and 1 IA License and C&A.

CLASSIFICATION: UNCLASSIFIED			May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION			
MODELS OF SYSTEM AFFECTED VB034 AN/BYG-1 TI-04 AND LATER SYSTEMS SSGN CLASS		TYPE MODIFICATION:	MODIFICATION TITLE: SSN COMBAT CONTROL SYSTEMS
DESCRIPTION/JUSTIFICATION:			
This program will provide submarine combat control systems with COTS-based upgrades to combat control and tactical control hardware and software. Milestone Decision Authority (MDA) Production Reviews are held on an annual basis.			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:			

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	4	18.3																	4	18.3
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
FMP INSTALL																				
DSA																				
NON-FMP INSTALL		2.3		0.5																2.8
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	3	16.0	1	6.0															4	22.0
TOTAL PROCUREMENT		36.6		6.5																43.1

CLASSIFICATION: UNCLASSIFIED																							May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)																							
MODELS OF SYSTEM AFFECTED AN/BYG-1 TI-04 AND LATER SYSTEMS SSGN CLASS														MODIFICATION TITLE: SSN COMBAT CONTROL SYSTEMS									
INSTALLATION INFORMATION:																							
METHOD OF IMPLEMENTATION:		AIT																					
ADMINISTRATIVE LEADTIME:		1 Months						PRODUCTION LEADTIME:		11 Months													
CONTRACT DATES:						FY 2008:				FY 2009:				FY 2010:									
DELIVERY DATES:						FY 2008:				FY 2009:				FY 2010:									

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS	3	18.3	1	6.5															4	24.8
FY 2008 EQUIPMENT																				
FY 2009 EQUIPMENT																				
FY 2010 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2007 & Prior	FY 2008				FY 2009				FY 2010																		TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4															
In	3	1	0	0	0	0	0	0	0	0	0	0	0															4
Out	3	0	0	1	0	0	0	0	0	0	0	0	0															4

Remarks:

CLASSIFICATION: UNCLASSIFIED			May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION			
MODELS OF SYSTEM AFFECTED VB034 AN/BYG-1 TI-04 AND LATER SYSTEMS SSN 688 CLASS	TYPE MODIFICATION: UPGRADE	MODIFICATION TITLE: SSN COMBAT CONTROL SYSTEMS	
DESCRIPTION/JUSTIFICATION:			
This program will provide submarine combat control systems with COTS-based upgrades to combat control and tactical control hardware and software. Milestone Decision Authority (MDA) Production Reviews are held on an annual basis.			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:			

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	16	74.7	4	21.7	4	22.1	1	5.6											25	124.1
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
FMP INSTALL																				
DSA																				
NON-FMP INSTALL		12.5		1.7		1.4		1.9												17.5
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	13	69.6	4	22.4	3	17.1	4	23.3											24	132.4
TOTAL PROCUREMENT		156.8		45.8		40.6		30.8												274.0

CLASSIFICATION: UNCLASSIFIED																																	May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)																																	
MODELS OF SYSTEM AFFECTED AN/BYG-1 TI-04 AND LATER SYSTEMS SSN 688 CLASS																										MODIFICATION TITLE: SSN COMBAT CONTROL SYSTEMS							
INSTALLATION INFORMATION:																																	
METHOD OF IMPLEMENTATION:								AIT																									
ADMINISTRATIVE LEADTIME:								1 Months								PRODUCTION LEADTIME:								11 Months									
CONTRACT DATES:														FY 2008:		DEC-07				FY 2009:		DEC-08				FY 2010:		DEC-09					
DELIVERY DATES:														FY 2008:		DEC-08				FY 2009:		DEC-09				FY 2010:		DEC-10					
($ in Millions)																																	
COST														Prior Years		FY 2008		FY 2009		FY 2010										TC		TOTAL	
														Qty	$	Qty	$	Qty	$	Qty	$									Qty	$	Qty	$
PRIOR YEARS														13	82.1	3	18.1															16	100.2
FY 2008 EQUIPMENT																1	6.0	3	18.5													4	24.5
FY 2009 EQUIPMENT																				4	25.2											4	25.2
FY 2010 EQUIPMENT																																	
TO COMPLETE																																	
INSTALLATION SCHEDULE																																	
	FY 2007 & Prior	FY 2008				FY 2009				FY 2010																						TOTAL	
		1	2	3	4	1	2	3	4	1	2	3	4																				
In	13	1	1	1	1	1	1	1	0	1	1	1	1																			24	
Out	12	1	1	1	1	2	0	1	1	1	0	1	2																			24	
Remarks:																																	

CLASSIFICATION: UNCLASSIFIED			May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION			
MODELS OF SYSTEM AFFECTED VB034 AN/BYG-1 TI-04 AND LATER SYSTEMS SSN21 CLASS		TYPE MODIFICATION:	MODIFICATION TITLE: SSN COMBAT CONTROL SYSTEMS
DESCRIPTION/JUSTIFICATION:			
This program will provide submarine combat control systems with COTS-based upgrades to combat control and tactical control hardware and software. Milestone Decision Authority (MDA) Production Reviews are held on an annual basis.			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:			

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	3	19.5	1	1.7															4	21.2
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
NON-FMP INSTALL		1.6				0.8														2.4
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	2	16.0			2	7.1													4	23.1
TOTAL PROCUREMENT		37.1		1.7		7.9														46.7

CLASSIFICATION: UNCLASSIFIED																									May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)																									
MODELS OF SYSTEM AFFECTED AN/BYG-1 TI-04 AND LATER SYSTEMS SSN21 CLASS															MODIFICATION TITLE: SSN COMBAT CONTROL SYSTEMS										
INSTALLATION INFORMATION:																									
METHOD OF IMPLEMENTATION:									AIT																
ADMINISTRATIVE LEADTIME:								1 Months				PRODUCTION LEADTIME:				11 Months									
CONTRACT DATES:												FY 2008:		DEC-07		FY 2009:				FY 2010:					
DELIVERY DATES:												FY 2008:		DEC-08		FY 2009:				FY 2010:					
($ in Millions)																									
COST								Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
								Qty	$	Qty	$	Qty	$	Qty	$									Qty	$
PRIOR YEARS								2	17.6			1	3.9											3	21.5
FY 2008 EQUIPMENT												1	4.0											1	4.0
FY 2009 EQUIPMENT																									
FY 2010 EQUIPMENT																									
TO COMPLETE																									
INSTALLATION SCHEDULE																									
	FY 2007 & Prior	FY 2008				FY 2009				FY 2010														TOTAL	
		1	2	3	4	1	2	3	4	1	2	3	4												
In	2	0	0	0	0	0	2	0	0	0	0	0	0												4
Out	2	0	0	0	0	0	0	0	2	0	0	0	0												4
Remarks:																									

CLASSIFICATION: UNCLASSIFIED			May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION			
MODELS OF SYSTEM AFFECTED VB034 CCS MK2 BLOCK 1C SSBN CLASS		TYPE MODIFICATION: UPGRADE	MODIFICATION TITLE: SSN COMBAT CONTROL SYSTEMS
DESCRIPTION/JUSTIFICATION:			
SSBN 726 Class Submarines will be modernized with CCS MK2 BLOCK 1C. Unit costs on FY 2006 and beyond represent refurbishment of CCS MK2 BLOCK 1C Systems removed from SSN 688 Class Submarines.			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:			

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	7	4.0	1	0.6	1	0.6	2	1.2											11	6.4
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
FMP INSTALL																				
DSA																				
NON-FMP INSTALL		2.0		0.9																2.9
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	5	6.5	2	3.3	1	1.8	1	1.8											9	13.4
TOTAL PROCUREMENT		12.5		4.8		2.4		3.0												22.7

CLASSIFICATION: UNCLASSIFIED	**May 2009**

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED	MODIFICATION TITLE:
CCS MK2 BLOCK 1C SSBN CLASS	SSN COMBAT CONTROL SYSTEMS

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:	AIT					
ADMINISTRATIVE LEADTIME:	1 Months	PRODUCTION LEADTIME:	11 Months			
CONTRACT DATES:	FY 2008:	DEC-07	FY 2009:	DEC-08	FY 2010:	DEC-09
DELIVERY DATES:	FY 2008:	DEC-08	FY 2009:	DEC-09	FY 2010:	DEC-10

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS	5	8.5	2	4.2					7	12.7
FY 2008 EQUIPMENT					1	1.8			1	1.8
FY 2009 EQUIPMENT							1	1.8	1	1.8
FY 2010 EQUIPMENT										
TO COMPLETE										

INSTALLATION SCHEDULE

	FY 2007 & Prior	FY 2008				FY 2009				FY 2010				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	
In	5	0	1	0	1	0	0	1	0	0	1	0	0	9
Out	4	1	0	0	1	1	0	0	0	1	0	0	1	9

Remarks:

CLASSIFICATION:
UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED																				May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION																				
MODELS OF SYSTEM AFFECTED VB034 COMMON WEAPON LAUNCHER COMMON WEAPON LAUNCHER							TYPE MODIFICATION: UPGRADE						MODIFICATION TITLE: SSN COMBAT CONTROL SYSTEMS							
DESCRIPTION/JUSTIFICATION:																				
This program will provide submarine combat control systems with COTS-based software weapons launch capability for all Virginia class submarines.																				
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																				
COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT							3	7.8											3	7.8
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
FMP INSTALLATION																				
DSA																				
NON-FMP INSTALLATION																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST																				
TOTAL PROCUREMENT								7.8												7.8

CLASSIFICATION: UNCLASSIFIED	**May 2009**

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED	MODIFICATION TITLE:
COMMON WEAPON LAUNCHER COMMON WEAPON LAUNCHER	SSN COMBAT CONTROL SYSTEMS

INSTALLATION INFORMATION:							
METHOD OF IMPLEMENTATION:	AIT						
ADMINISTRATIVE LEADTIME:	1 Months	PRODUCTION LEADTIME:	11 Months				
CONTRACT DATES:	FY 2008:		FY 2009:		FY 2010:	DEC-09	
DELIVERY DATES:	FY 2008:		FY 2009:		FY 2010:	DEC-10	

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010														TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$													Qty	$
PRIOR YEARS																						
FY 2008 EQUIPMENT																						
FY 2009 EQUIPMENT																						
FY 2010 EQUIPMENT																						
FY 2011 EQUIPMENT																						
FY 2012 EQUIPMENT																						
FY 2013 EQUIPMENT																						
FY 2014 EQUIPMENT																						
FY 2015 EQUIPMENT																						
TO COMPLETE																						

INSTALLATION SCHEDULE

	FY 2007 & Prior	FY 2008				FY 2009				FY 2010																										TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4																							
In	0	0	0	0	0	0	0	0	0	0	0	0	0																							
Out	0	0	0	0	0	0	0	0	0	0	0	0	0																							

Remarks:

CLASSIFICATION:
UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED			May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION			
MODELS OF SYSTEM AFFECTED VB034 TECHNOLOGY INSERTION (TI00/TI02 BASELINE) SSN688 CLASS		TYPE MODIFICATION: UPGRADE	MODIFICATION TITLE: SSN COMBAT CONTROL SYSTEMS
DESCRIPTION/JUSTIFICATION:			
This program will provide submarine combat control systems with COTS-based upgrades to combat control and tactical control hardware and software. Milestone Decision Authority (MDA) Production Reviews are held on an annual basis.			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:			

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	7	17.5	4	10.4	2	5.3													13	33.2
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
FMP INSTALL																				
DSA																				
NON-FMP INSTALL		1.6		2.1		2.2		1.1												7.0
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	3	11.2	4	15.6	4	15.8	2	8.1											13	50.7
TOTAL PROCUREMENT		30.3		28.1		23.3		9.2												90.9

CLASSIFICATION: UNCLASSIFIED																									May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)																									
MODELS OF SYSTEM AFFECTED TECHNOLOGY INSERTION (TI00/TI02 BASELINE) SSN688 CLASS																								MODIFICATION TITLE: SSN COMBAT CONTROL SYSTEMS	
INSTALLATION INFORMATION:																									
METHOD OF IMPLEMENTATION:		AIT																							
ADMINISTRATIVE LEADTIME:	1 Months				PRODUCTION LEADTIME:	11 Months																			
CONTRACT DATES:					FY 2008:	DEC-07			FY 2009:	DEC-08			FY 2010:												
DELIVERY DATES:					FY 2008:	DEC-08			FY 2009:	DEC-09			FY 2010:												

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010														TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$													Qty	$
PRIOR YEARS	3	12.8	4	17.7																	7	30.5
FY 2008 EQUIPMENT					4	17.9															4	17.9
FY 2009 EQUIPMENT							2	9.2													2	9.2
FY 2010 EQUIPMENT																						
TO COMPLETE																						

INSTALLATION SCHEDULE

	FY 2007	FY 2008				FY 2009				FY 2010																		TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4															
In	3	1	1	1	1	1	1	1	1	0	1	1	0															13
Out	2	1	1	1	2	0	1	1	1	1	0	1	1															13

Remarks:

CLASSIFICATION: UNCLASSIFIED			May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION			
MODELS OF SYSTEM AFFECTED VB034 TECHNOLOGY INSERTION (TI00/TI02 BASELINE) SSN774 CLASS		TYPE MODIFICATION: UPGRADE	MODIFICATION TITLE: SSN COMBAT CONTROL SYSTEMS
DESCRIPTION/JUSTIFICATION:			
This program will provide upgrades for submarine combat systems with upgraded combat control and tactical control hardware and software. This program funds the procurement and installation of the first Virginia Class upgrade and, beginning in FY10, installation of the second and third upgrade kits as well as procurement and installation of all subsequent Virginia Class AN/BYG-1 upgrade kits. Milestone Decision Authority (MDA) Production Reviews are being held on an annual basis.			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:			

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	1	3.0					1	6.2											2	9.2
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
FMP INSTALL																				
DSA																				
NON-FMP INSTALL		0.3						1.1												1.4
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	1	1.6					2	6.1											3	7.7
TOTAL PROCUREMENT		4.9						13.4												18.3

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED TECHNOLOGY INSERTION (TI00/TI02 BASELINE) SSN774 CLASS	MODIFICATION TITLE: SSN COMBAT CONTROL SYSTEMS
INSTALLATION INFORMATION:	
METHOD OF IMPLEMENTATION:	AIT
ADMINISTRATIVE LEADTIME:	1 Months
PRODUCTION LEADTIME:	11 Months

CONTRACT DATES:		FY 2008:		FY 2009:		FY 2010:	DEC-09	
DELIVERY DATES:		FY 2008:		FY 2009:		FY 2010:	DEC-10	

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS	1	1.9																	1	1.9
FY 2008 EQUIPMENT																				
FY 2009 EQUIPMENT							2	7.2											2	7.2
FY 2010 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2007	FY 2008				FY 2009				FY 2010																				TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4																	
In	1	0	0	0	0	0	0	0	0	1	1	0	0																	3
Out	1	0	0	0	0	0	0	0	0	0	1	1	0																	3

Remarks:

Procurement of the second and third upgrade kits in FY09 are being funded from VIRGINIA Class Support Equipment OPN BLI 0942.

CLASSIFICATION: UNCLASSIFIED			May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION			
MODELS OF SYSTEM AFFECTED VB034 UPGRADES FROM TI04 AND OUT BASELINE SSGN CLASS	TYPE MODIFICATION: UPGRADE	MODIFICATION TITLE: SSN COMBAT CONTROL SYSTEMS	
DESCRIPTION/JUSTIFICATION:			
This program will provide submarine combat control systems with COTS-based upgrades to combat control and tactical control hardware and software. Milestone Decision Authority (MDA) Production Reviews are held on an annual basis.			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:			

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT							1	2.7											1	2.7
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
FMP INSTALL																				
DSA																				
NON-FMP INSTALL																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST																				
TOTAL PROCUREMENT								2.7												2.7

CLASSIFICATION: UNCLASSIFIED	May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED	MODIFICATION TITLE:
UPGRADES FROM TI04 AND OUT BASELINE SSGN CLASS	SSN COMBAT CONTROL SYSTEMS

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:	AIT								
ADMINISTRATIVE LEADTIME:	1 Months	PRODUCTION LEADTIME:	11 Months						
CONTRACT DATES:		FY 2008:		FY 2009:		FY 2010:	DEC-09		
DELIVERY DATES:		FY 2008:		FY 2009:		FY 2010:	DEC-10		

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010														TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$													Qty	$
PRIOR YEARS																						
FY 2008 EQUIPMENT																						
FY 2009 EQUIPMENT																						
FY 2010 EQUIPMENT																						
FY 2011 EQUIPMENT																						
FY 2012 EQUIPMENT																						
FY 2013 EQUIPMENT																						
FY 2014 EQUIPMENT																						
FY 2015 EQUIPMENT																						
TO COMPLETE																						

INSTALLATION SCHEDULE

	FY 2007 & Prior	FY 2008				FY 2009				FY 2010																									TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4																						
In	0	0	0	0	0	0	0	0	0	0	0	0	0																						
Out	0	0	0	0	0	0	0	0	0	0	0	0	0																						

Remarks: The four SSGNs will all be modernized to TI-10. The shipsets have to be procured within the window when the TI-10 configuration is available (FY10).

CLASSIFICATION:
UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED			May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION			
MODELS OF SYSTEM AFFECTED VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN21 CLASS	TYPE MODIFICATION: UPGRADE	MODIFICATION TITLE: SSN COMBAT CONTROL SYSTEMS	
DESCRIPTION/JUSTIFICATION:			
This program will provide submarine combat control systems with COTS-based upgrades to combat control and tactical control hardware and software. Milestone Decision Authority (MDA) Production Reviews are held on an annual basis.			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:			

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT					1	1.7													1	1.7
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
FMP INSTALL																				
DSA																				
NON-FMP INSTALL								0.6												0.6
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST							1	3.4											1	3.4
TOTAL PROCUREMENT						1.7		4.0												5.7

CLASSIFICATION: UNCLASSIFIED	May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED	MODIFICATION TITLE:
UPGRADES FROM TI04 AND OUT BASELINE SSN21 CLASS	SSN COMBAT CONTROL SYSTEMS

INSTALLATION INFORMATION:							
METHOD OF IMPLEMENTATION:	AIT						
ADMINISTRATIVE LEADTIME:	1 Months	PRODUCTION LEADTIME:	11 Months				
CONTRACT DATES:		FY 2008:		FY 2009:	DEC-08	FY 2010:	
DELIVERY DATES:		FY 2008:		FY 2009:	DEC-09	FY 2010:	

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
PRIOR YEARS																				
FY 2008 EQUIPMENT																				
FY 2009 EQUIPMENT							1	4.0											1	4.0
FY 2010 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2007 & Prior	FY 2008				FY 2009				FY 2010																					TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4																		
In	0	0	0	0	0	0	0	0	0	0	1	0	0																		1
Out	0	0	0	0	0	0	0	0	0	0	0	1	0																		1

Remarks:

CLASSIFICATION:
UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED			May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION			
MODELS OF SYSTEM AFFECTED VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN688 CLASS	TYPE MODIFICATION: UPGRADE	MODIFICATION TITLE: SSN COMBAT CONTROL SYSTEMS	
DESCRIPTION/JUSTIFICATION:			
This program will provide submarine combat control systems with COTS-based upgrades to combat control and tactical control hardware and software. Milestone Decision Authority (MDA) Production Reviews are held on an annual basis.			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:			

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT			3	5.0	1	1.7	5	13.5											9	20.2
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
FMP INSTALL																				
DSA																				
NON-FMP INSTALL						1.0		1.1												2.1
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST					2	3.5	2	6.2											4	9.7
TOTAL PROCUREMENT				5.0		6.2		20.8												32.0

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED	MODIFICATION TITLE:
UPGRADES FROM TI04 AND OUT BASELINE SSN688 CLASS	SSN COMBAT CONTROL SYSTEMS

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:	AIT							
ADMINISTRATIVE LEADTIME:	1 Months	PRODUCTION LEADTIME:	11 Months					
CONTRACT DATES:		FY 2008:	DEC-07	FY 2009:	DEC-08	FY 2010:	DEC-09	
DELIVERY DATES:		FY 2008:	DEC-08	FY 2009:	DEC-09	FY 2010:	DEC-10	

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
PRIOR YEARS																				
FY 2008 EQUIPMENT					2	4.5	1	3.6											3	8.1
FY 2009 EQUIPMENT							1	3.7											1	3.7
FY 2010 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2007 & Prior	FY 2008				FY 2009				FY 2010																							TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4																				
In	0	0	0	0	0	0	1	1	0	1	1	0	0																				4
Out	0	0	0	0	0	0	0	1	1	0	1	1	0																				4

Remarks:

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**		P-1 LINE ITEM NOMENCLATURE SUBMARINE ASW SUPPORT EQUIPMENT **SUBHEAD NO. 846A BLI: 5431**
Program Element for Code B Items		Other Related Program Elements

	Prior Years	ID Code		FY 2008	FY 2009	FY 2010						
Quantity	0			0	0	0						
COST (In Millions)	37.2	A		5.1	5.4	5.2						
SPARES COST (In Millions)	0.0	0		0.0	0.0	0.0						

PROGRAM DESCRIPTION/JUSTIFICATION:

This line item procures modifications and improvements to Attack and Ballistic Missile Submarine fire control interface systems, torpedo tube system components and torpedo tube test equipment. These requirements arise as a result of the introduction of new or modified weapons and sensors and their subsequent evaluation test and operational use. Also procured are reliability, maintainability, functional and safety modifications and tactical improvements resulting from operational use experience.

6A002

This line funds modifications and improvements in the following categories:

The Submarine Torpedo Tube Support category funds in-service support and alteration procurements for all submarine torpedo tubes ejection pumps, handling systems, and countermeasure launchers. Recurring efforts are casualty report (CASREP) support to the fleet units, emergency ordnance alteration (ORDALTs), Bore Gage/Test Equipment Procurement, Engineering Change Proposal support and prototype ORDALTs. ORDALTs kits are procured to correct significant deficiencies in equipment affecting personnel safety, ship safety and system performance.

6A5IN

Installing agents will be various Naval Shipyards and contractors. All installations will be on SSN 688/21 Class Submarines.

CLASSIFICATION:	UNCLASSIFIED											
EXHIBIT P-5 COST ANALYSIS			Weapon System									DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code	P-1 LINE ITEM NOMENCLATURE **SUBMARINE ASW SUPPORT EQUIPMENT** **SUBHEAD NO. 846A**								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2008			FY 2009			FY 2010		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	EQUIPMENT											
6A002	SUB TORPEDO TUBE SUPPORT											
	O/A PROTOTYPE/ECP MATERIAL	A	3.944	0	0.000	0.770	0	0.000	0.828	0	0.000	0.869
	2J COG MATERIAL	A	1.223	0	0.000	0.306	0	0.000	0.352	0	0.000	0.426
	TEP ORDALTS/TRIDS											
	O/A 16264 TEP QUIET 1	A	14.000	1	0.467	0.467	1	0.476	0.476	1	0.485	0.485
	TPES/ATP DYNAMIC SEAL	A	1.000	0	0.000	0.500	0	0.000	0.500	0	0.000	0.271
	TEST EQUIPMENT											
	BORE GAGE	A	1.187	0	0.000	0.132	0	0.000	0.156	0	0.000	0.119
	TEST FACILITY EQUIPMENT	A	4.531	0	0.000	0.574	0	0.000	0.576	0	0.000	0.584
	MISC. TEST EQUIPMENT	A	1.776	0	0.000	0.372	0	0.000	0.376	0	0.000	0.325
	TOTAL EQUIPMENT		**27.661**			**3.121**			**3.264**			**3.079**
	INSTALLATION											
6A5IN	INSTALL OF EQUIPMENT	A	9.500	0	0.000	2.027	0	0.000	2.094	0	0.000	2.121
	TOTAL INSTALLATION		**9.500**			**2.027**			**2.094**			**2.121**
	TOTAL		**37.161**			**5.148**			**5.358**			**5.200**

CLASSIFICATION:	UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				**DATE May 2009**	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 4					**P-1 LINE ITEM NOMENCLATURE SUBMARINE ASW SUPPORT EQUIPMENT BLIN: 5431**				**SUBHEAD 846A**	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAIL NOW	DATE REVISIONS AVAILABLE
FY 2008										
6A002 TEP ORDALTS/TRIDS										
O/A 16264 TEP QUIET 1	1	0.467	NUWC NEWPORT, RI	N/A	FP/OPT	SCANDIA CORP, PHILA, PA	JAN-08	JAN-09	YES	
FY 2009										
6A002 TEP ORDALTS/TRIDS										
O/A 16264 TEP QUIET 1	1	0.476	NUWC NEWPORT, RI	N/A	FP/OPT	SCANDIA CORP, PHILA, PA	JAN-09	JAN-10	YES	
FY 2010										
6A002 TEP ORDALTS/TRIDS										
O/A 16264 TEP QUIET 1	1	0.485	NUWC NEWPORT, RI	N/A	FP/OPT	SCANDIA CORP, PHILA, PA	JAN-10	JAN-11	YES	

CLASSIFICATION: UNCLASSIFIED			May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION			
MODELS OF SYSTEM AFFECTED 6A002 TEP ORDALTS/TRIDS O/A 16264 TEP QUIET 1		TYPE MODIFICATION: ORDALT	MODIFICATION TITLE: SUBMARINE ASW SUPPORT EQUIPMENT
DESCRIPTION/JUSTIFICATION:			
PROJECT UNIT: ORDALT 16264 SUBMARINE TORPEDO EJECTION PUMP MK 5 MODS 15 THROUGH 20 UPGRADE REDUCES THE DETECTION AND CLASSIFICATION OF THE SSN 688 CLASS SUBMARINE WEAPON LAUNCH SIGNATURE.			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:			

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	40	14.0	1	0.5	1	0.5	1	0.5											43	15.5
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	39	24.6	1	2.0	1	2.1	1	2.1											42	30.8
TOTAL PROCUREMENT		38.6		2.5		2.6		2.6												46.3

CLASSIFICATION: UNCLASSIFIED																									May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)																									
MODELS OF SYSTEM AFFECTED TEP ORDALTS/TRIDS O/A 16264 TEP QUIET 1															MODIFICATION TITLE: SUBMARINE ASW SUPPORT EQUIPMENT									
INSTALLATION INFORMATION:																									
METHOD OF IMPLEMENTATION:									SHIPYARD OR AIT (CONTRACTOR OR PUBLIC SHIPYARD)																
ADMINISTRATIVE LEADTIME:								1 Months					PRODUCTION LEADTIME:				12 Months								
CONTRACT DATES:													FY 2008:		JAN-08		FY 2009:		JAN-09		FY 2010:		JAN-10		
DELIVERY DATES:													FY 2008:		JAN-09		FY 2009:		JAN-10		FY 2010:		JAN-11		
($ in Millions)																									
COST													Prior Years		FY 2008		FY 2009		FY 2010						TOTAL
													Qty	$	Qty	$	Qty	$	Qty	$					Qty	$
PRIOR YEARS													39	24.6	1	2.0									40	26.6
FY 2008 EQUIPMENT																	1	2.1							1	2.1
FY 2009 EQUIPMENT																			1	2.1					1	2.1
FY 2010 EQUIPMENT																										
FY 2011 EQUIPMENT																										
FY 2012 EQUIPMENT																										
FY 2013 EQUIPMENT																										
FY 2014 EQUIPMENT																										
TO COMPLETE																										
INSTALLATION SCHEDULE																									
	FY 2007 & Prior	FY 2008				FY 2009				FY 2010															TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4													
In	39	1	0	0	0	0	1	0	0	0	1	0	0												0	42
Out	39	1	0	0	0	0	1	0	0	0	1	0	0												0	42
Remarks:																									

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**		P-1 LINE ITEM NOMENCLATURE SURFACE ASW SUPPORT EQUIPMENT **SUBHEAD NO. A46B BLI: 5449**
Program Element for Code B Items		Other Related Program Elements

	Prior Years	ID Code		FY 2008	FY 2009	FY 2010						
Quantity	0			0	0	0						
COST (In Millions)	92.3	A		3.5	4.6	13.6						
SPARES COST (In Millions)	3.6	A		0.3	0	0.7						

PROGRAM DESCRIPTION/JUSTIFICATION:

This line item provides funding to procure Reliability, Maintainability and Availability (RM&A) and safety modifications through the Ordnance Alteration (ORDALT) process to in-service Anti-Submarine Warfare (ASW) Fire Control, Surface Vessel Torpedo Tubes (SVTT), and related ASW Fire Control/SVTT support and test equipment to maintain the current performance envelope. Modification requirements arise as a result of evaluation, testing, and Fleet use of existing, new, or modified ASW weapons and/or related systems and subsystems. Included in this line item are all related procurements for training and simulation equipment required for the continued operation of this equipment. ORDALT procurements are highly variable and dependent on shipboard configurations and equipment age.

6B001- ASW FIRE CONTROL ORDALTS, MK54 SURFACE SHIP USW FCS MODS

Cost Code 6B001 provides funding for ORDALT kits for the ASW Underwater Fire Control System (UFCS) and Control Panel. ORDALT procurements include a Software Preset/Launch Capability ORDALT (30493) and MK 432 Mod 6 test set ORDALT (16874) which provides for the addition of wide angle display, cable terminations and tech refresh of obsolete motherboard parts. 6B001 also provides material support for the UFCS MK116 and Control Panel MK309 at shore site laboratories. Procurements will ensure laboratories are at Fleet baseline configurations.

Cost Code 6B001 also funds Surface Ship Undersea Warfare (USW) Fire Control System (FCS) modification efforts to continue the required operation/performance of ASW helicopter (helo ops), Vertical Launch (VLA) Anti-Submarine Rocket (ASROC), and Over-The-Side (OTS) capabilities due to the implementation of the MK54 Lightweight Torpedo (LHT) and Digital Fire Control Interface (DFCI). Effort includes associated Non Recurring Engineering (NRE), procurement, and installation of the following: 1) MK54 magazine Stowage & Handling (S&H) modifications to CG47 (CG59-73), DDG51 (DDG79-112), and FFG7 (Non-CORT) class ships, thereby enabling them to stow/carry the MK54 and fully support ASW helo operations; 2) Modification of AEGIS Weapons System (AWS) CR2/CR3 Command & Decision (C&D) software for CG47 (CG52-73) and DDG51 (DDG51-78) class ships so it can identify, preset, and launch the MK54 torpedo in its VLA configuration; 3) Modification of AN/SQQ-89A(V)15 USW Combat System software for CG47 (CG59-73) and DDG51 (DDG51-78) class ships so it can identify, preset, and launch the MK54 torpedo in its VLA configuration; 4) Upgrade of MK116 MOD 7 Build 12B FCS software for CG47 (CG52-58) class ships so it can identify, preset, and launch the MK54 torpedo in its OTS and VLA configuration; 5) Upgrade of the SVTT MK32 hardware for CG47 (CG52-73) class ships so it can launch the MK54 torpedo in its OTS configuration;

6) Upgrade of MK309 MOD 0/2 FCS hardware for FFG7 (CORT and Non-CORT) class ships so it can identify, preset, and launch the MK54 torpedo in its OTS configuration. Additionally, effort is required to produce the associated Ship Control Document (SCD) and conduct the necessary system and integration tests and safety analyses to ensure the item meets MIL-STD-882 safety requirements.

6B004 - TORPEDO TUBE ORDALTS

Cost Code 6B004 provides funding for SVTT MK32 and ancillary equipment for testing, training, and maintainability. ORDALT procurements include: Control Box improvement Modification (SVTT MK32 All Mods - 833-96-027); Emergency Fire Circuit Improvements (SVTT MK32 Mod 17 only - SCD 6462); Mount to Magazine Door Interoperability Improvement (SVTT MK32 Mod 19 only - SCD 6463); Overheat sensor tool (SVTT MK32 Mod 5/15/17 Only - 412-01-019); Locking Handle Securing Device (SVTT MK32 All Mods - 412-01-031); Pressure Switch Assembly Replacement (SVTT MK32 All Mods - SCD 3191); Barrel Guide Modification ORDALT (SVTT MK32 All Mods - 412-01-032); Torpedo Upgrades for CGs 52-71 (SVTT MK32 Mods 14-19 Only - SCD 6008); Safe Ready Lever Modification (SVTT MK32 Mod 15 Only - 412-03-013); Wear Block Replacement (SVTT MK32 All Mods - 412-04-024); Securing Mechanism Shoulder Bolt Retention (SVTT MK32 All Mods - 412-04-025); Over-Heat Sensor Assembly Modification (SVTT MK32 Mod 5/15/17 Only - 412-05-015); Lever and Block Assembly Redesign (SVTT MK32 All Mods - SCD 3440); Access Cover Improvements (# TBD); and Training Gear Improvements (# TBD). Procure SVTT shoresite laboratory equipment for Launcher System Facilities (LSF). LSFs are used to simulate shipboard conditions for over-the-side torpedo launchers, as well as for the creation of the required ORDALTs.

6B830- PRODUCTION ENGINEERING SUPPORT

Cost Code 6B830 provides the necessary production engineering support funds to cover the associated Integrated Logistics Support (ILS) elements, Engineering Change Proposal (ECP) reviews, Engineering Changes (EC), SCDs, and engineering audits for ASW Fire Control and SVTT ORDALTs.

6B860- ACCEPTANCE TEST & EVALUATION

Cost Code 6B860 provides the in-house acceptance test and evaluation funding required for the safety and quality assurance testing of all ASW Fire Control and SVTT ORDALTs, Alteration Equivalent to Repairs (AERs), ECPs, ECs, and SCDs.

6B900- CONSULTING SERVICES

Cost Code 6B900 provides the necessary funding for consulting services required to support scheduling of ASW Fire Control and SVTT ORDALT production, test, and installation efforts in conjunction with operation, safety, and environmental requirements.

6B6IN- FMP INSTALLATION OF EQUIPMENT

Cost Code 6B6IN funds the installation of all ASW Fire Control (under Cost Code 6B001) and SVTT (under Cost Code 6B004) ORDALTs/SCDs. ORDALT/SCD Alteration Installation Team (AIT) pier-side installations are variable and contingent on Type Commander (TYCOM), Ships' Scheduling Conference (SSC), and ships' availability.

Cost Code 6B6IN also funds the installation of MK54 Surface Ship USW FCS modifications (under Cost Code 6B001) to continue the required operation/performance of ASW helicopter (helo ops), VLA, and OTS capabilities due to the implementation of the MK54.

CLASSIFICATION:	UNCLASSIFIED											
EXHIBIT P-5 COST ANALYSIS			Weapon System									DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code **A**	P-1 LINE ITEM NOMENCLATURE **SURFACE ASW SUPPORT EQUIPMENT** **SUBHEAD NO. A46B**								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2008			FY 2009			FY 2010		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	EQUIPMENT											
6B001	ASW FIRE CONTROL ORDALTS											
	UCFS/CONTROL PANEL ORDALTS	A	35.542	VAR	0.000	1.480	VAR	0.000	1.714	VAR	0.000	1.972
	MK54 SURFACE SHIP USW FCS MODS											
	MK54 - S&H UPGRADES (NRE)	A	0.000	0	0.000	0.000	0	0.000	0.312	0	0.000	0.000
	MK54 - AEGIS CR2/CR3 UPGRADE (NRE)	A	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	2.400
	MK54 - SQQ-89A(V)15 UPGRADE (NRE)	A	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	3.080
	MK54 - MK116 MOD 7 UPGRADE (NRE)	A	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	2.200
	MK54 - SVTT UPGRADE	A	0.000	0	0.000	0.000	0	0.000	0.000	VAR	0.000	0.461
6B004	TORPEDO TUBE ORDALTS											
	SVTT MK32 ORDALTS	A	34.748	VAR	0.000	1.125	VAR	0.000	1.126	VAR	0.000	1.682
6B830	PRODUCTION ENGINEERING SUPPORT											
	ASW FIRE CONTROL ORDALTS	A	2.860	0	0.000	0.123	0	0.000	0.125	0	0.000	0.133
	TORPEDO TUBE ORDALTS	A	2.800	0	0.000	0.123	0	0.000	0.125	0	0.000	0.133
6B860	ACCEPTANCE TEST & EVALUATION											
	ASW FIRE CONTROL ORDALTS	A	2.001	0	0.000	0.101	0	0.000	0.101	0	0.000	0.101
	TORPEDO TUBE ORDALTS	A	1.971	0	0.000	0.101	0	0.000	0.101	0	0.000	0.101
6B900	CONSULTING SERVICES											
	ASW FIRE CONTROL ORDALTS	A	2.765	0	0.000	0.102	0	0.000	0.106	0	0.000	0.109
	TORPEDO TUBE ORDALTS	A	2.695	0	0.000	0.102	0	0.000	0.105	0	0.000	0.109
6BCA1	SVTT MK32 UPGRADES (CONGRESSIONAL ADD)	A	1.750	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000

CLASSIFICATION:	UNCLASSIFIED											
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)			Weapon System									DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code **A**	P-1 LINE ITEM NOMENCLATURE **SURFACE ASW SUPPORT EQUIPMENT** **SUBHEAD NO. A46B**								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2008			FY 2009			FY 2010		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
6BCA2	SVTT MK32 UPGRADES (CONGRESSIONAL ADD)	A	2.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	TOTAL EQUIPMENT		**89.132**			**3.257**			**3.815**			**12.481**
	INSTALLATION											
6B6IN	INSTALL OF EQUIPMENT N86 - FIRE CONTROL ORDALTS	A	1.598	VAR	0.000	0.102	VAR	0.000	0.103	VAR	0.000	0.106
6B6IN	INSTALL OF EQUIPMENT N86 - TORPEDO TUBE ORDALTS	A	1.580	VAR	0.000	0.102	VAR	0.000	0.102	VAR	0.000	0.106
6B6IN	INSTALL OF EQUIPMENT N86 - MK54 S/S USW FCS UPGRADES	A	0.000	0	0.000	0.000	VAR	0.000	0.588	VAR	0.000	0.953
	TOTAL INSTALLATION		**3.178**			**0.204**			**0.793**			**1.165**
	TOTAL		**92.310**			**3.461**			**4.608**			**13.646**

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**	P-1 LINE ITEM NOMENCLATURE ASW RANGE SUPPORT EQUIPMENT **SUBHEAD NO. 846C BLI: 5455**	
Program Element for Code B Items	Other Related Program Elements	

	Prior Years	ID Code		FY 2008	FY 2009	FY 2010						
Quantity	15			15	46	10						
COST (In Millions)	21.4	A		8.9	17.1	7.3						
SPARES COST (In Millions)	0.0	0		0.0	0.0	0.0						

PROGRAM DESCRIPTION/JUSTIFICATION:

ASW RANGE SUPPORT

Funding provides for the procurement of training range and shore support equipment, Test and Evaluation (T&E), Acoustic Trial range equipment, and weapon system and test support equipment. Equipment procured includes instrumentation for Fleet Operational Readiness Accuracy Check Sites (FORACS) and Naval Undersea Warfare Center, Keyport (NUWCDIVKPT) T&E ranges, support equipment required to conduct Fleet exercises at Navy ASW Training ranges, Submarine Combat System Certification and Assessment Program (SCS CAP), Surface Ship Combat Ship Qualification Trial (CSSQT), and Surface Ship Radiated Noise Measurement (SSRNM). Training and T&E ranges supported include Southern California Offshore Range (SCORE), Barking Sands Tactical Underwater Range/Barking Sands Underwater Range Extension (BARSTUR/BSURE), Atlantic Underwater Test and Evaluation Center (AUTEC), Nanoose and Dabob Bay. FORACS ranges supported include Andros Island, Southern California, and Hawaii.

6C001 - WEAPON SYSTEM AND TEST SUPPORT EQUIPMENT:

Funding provides for the procurement of high power ESM targets, range communication systems, replacement of obsolete range computers, ship auto-tracking system, Surface Ship Acoustic Range Components, and upgraded ship position tracking system.

6C002 - TRAINING/TEST & EVALUATION RANGE EQUIPMENT:

Funding provides for the procurement of shipboard underwater tracking equipment for the existing ranges as well as the new Shallow Water Training Ranges on both coasts and in Hawaii, shop special purpose pinger test equipment, and the associated cables/mounting hardware required to track ships and submarines conducting Fleet exercises at the Navy training ranges. NAVSEA provides all of the Navy Underwater Ranges with this tracking equipment support because the equipment must be compatible with NAVSEA designed and built underwater vehicles (i.e. ships, submarines, torpedoes, mines and sonars).

Prior Year Funding also provides for replacement and modernization of the following NUWCDIVKPT T&E range systems: Acoustic Noise Measuring Recording and Analysis System, Above Water Tracking System, Radio Frequency (RF) and underwater communications equipment, and range data gathering equipment. In FY08 funding for NUWCDIVKPT T&E range systems transferred to Major Range Test Facility Base (MRTFB) oversight.

Production support services will fund support efforts performed by a field activity or contractor during the production phase of these projects.

UNMANNED SEABORNE TARGETS PROGRAM

The Unmanned Seaborne Targets Program provides surface seaborne targets and target electronic augmentation systems for weapons systems test and evaluation and Fleet surface and air to surface training. Target requirements include High Speed Maneuverable Sea Target (HSMST), the MK42 MOD 0 Floating At Sea Target (FAST), the High Speed Anti-Radiation Missile/Infrared Missile (HARM/IR) Target, Towed Trimaran, William Sled, and improved Surface Towed Target (ISTT). Inventory objective changes are based on Fleet usage.

6C001 - QST 35 REPLACEMENT

Remote-controlled powered target, to replace aging class of QSTs; primary mission of towing expendable targets for test and evaluation and fleet training exercises.

6C003 - TOWED TARGETS

The fleet requires low cost expendable moving targets and stationary targets towed to the operating site for surface, aerial gunnery and missile shots. Trimarans, HARM/IR target, Williams Sleds, and ISTT with tow lines and retrieval systems meet these requirements. The FAST is a free floating radar reflective target developed as an open ocean training device for bombing and surface gunnery exercises.

6C005 - HIGH SPEED MANEUVERABLE SEABORNE TARGET (HSMST)

Provides the user with a medium to high speed remote controlled surface target with a high degree of maneuverability. It has a form fitted collar surrounding the deck area of the aluminum hull. This target can exceed 40 knots in a calm sea and approaches 40 knots in a sea state 3.

6C006 - SHIP DEPLOYABLE SURFACE TARGET (SDST)

SDST (Ship Deployable Surface Target) will be used to support ship training and T&E exercises. This target will support training requirements of deploying ships, aircraft and surface gunnery requirements.

6C007 - FAST ATTACK CRAFT TARGET (FACT)

FACT (Fast Attack Craft Target) is required to meet T&E requirements for weapons/systems tests beginning in FY08. The tests require a target to represent missile capable patrol craft operating at speeds of 50 knots in sea state 2 conditions.

6C004 - INSTRUMENTATION

Seaborne target augmentation systems include transponders (i.e. transmitters/receivers), radar reflectors, radio frequency (RF) emitters and ground support equipment (GSE). Various electronic components provide the interface for the target control systems with the control stations/facilities for drone operations. RF emitters and radar reflectors enhance target threat replication and provide the required stimulus for anti-surface/radar weapons systems.

H0CA1 TARGETS TRAINING RANGE ENHANCEMENTS

The Consolidated Security, Disaster Assistance, and Continuing Appropriations Act, 2009" included a Congressional add for Targets Training Enhancements. The following will be procured with these funds: High Speed Maneuverable Seaborne Target (HSMST) (Qty 31), Fast Attack Craft Target (FACT) (Qty 1), Portable Command Control Unit (PCCU) (Qty 25), and Towed target (Qty 1).

CLASSIFICATION:	UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS			Weapon System							DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code	P-1 LINE ITEM NOMENCLATURE **ASW RANGE SUPPORT EQUIPMENT** **SUBHEAD NO. 846C**							
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS								
			Prior Years	FY 2008			FY 2009			FY 2010		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	EQUIPMENT											
6C001	WEAPON SYSTEM & TEST SUPPORT EQUIPMENT											
	WEAPON SYSTEM & TEST SUPPORT EQUIPMENT (S06)		5.266	0	0.000	1.922	0	0.000	3.301	0	0.000	2.498
	QST 35 REPLACEMENT (SHIPS)		1.616	1	0.920	0.920	0	0.000	0.000	0	0.000	0.000
6C002	TRAINING/TEST & EVALUATION EQUIPMENT											
	S06		6.714	0	0.000	1.039	0	0.000	0.694	0	0.000	0.818
6C003	TOWED TARGETS											
	SHIPS		0.931	0	0.000	0.749	0	0.000	0.743	0	0.000	0.578
6C004	INSTRUMENTATION											
	SHIPS		0.407	0	0.000	0.200	0	0.000	0.175	0	0.000	0.190
6C005	HSMST											
	SHIPS		2.890	12	0.172	2.064	12	0.175	2.100	9	0.178	1.602
6C006	SDST (SHIP DEPLOYABLE SURFACE TARGET)											
	SHIPS		0.258	0	0.000	0.150	0	0.000	0.300	0	0.000	0.100
6C007	FACT (FAST ATTACK CRAFT TARGET)											
	SHIPS		0.000	2	0.352	0.704	2	0.360	0.720	1	0.368	0.368
6C830	PRODUCTION ENGINEERING											
	S06		1.165	0	0.000	0.404	0	0.000	0.420	0	0.000	0.435
	SHIPS		0.555	0	0.000	0.139	0	0.000	0.132	0	0.000	0.100

CLASSIFICATION:	UNCLASSIFIED											
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)			Weapon System								DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code	P-1 LINE ITEM NOMENCLATURE **ASW RANGE SUPPORT EQUIPMENT** **SUBHEAD NO. 846C**								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2008			FY 2009				FY 2010	
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
6C850	PRODUCTION IMPROVEMENT											
	S06		1.007	0	0.000	0.351	0	0.000	0.370	0	0.000	0.395
6C900	CONSULTING SERVICES											
	SHIPS		0.270	0	0.000	0.080	0	0.000	0.073	0	0.000	0.074
6C970	INTEGRATED LOGISTICS SUPPORT											
	SHIPS		0.337	0	0.000	0.139	0	0.000	0.120	0	0.000	0.098
H0CA1	TARGETS TRAINING RANGE ENHANCEMENTS											
	SHIPS		0.000	0	0.000	0.000	32	0.250	8.000	0	0.000	0.000
	TOTAL EQUIPMENT		**21.416**			**8.861**			**17.148**			**7.256**
	TOTAL		**21.416**			**8.861**			**17.148**			**7.256**

CLASSIFICATION:	UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 4					P-1 LINE ITEM NOMENCLATURE ASW RANGE SUPPORT EQUIPMENT BLIN: 5455				SUBHEAD 846C	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAIL NOW	DATE REVISIONS AVAILABLE
FY 2008										
6C001 WEAPON SYSTEM & TEST SUPPORT EQUIPMENT										
QST 35 REPLACEMENT (SHIPS)	1	0.920	NAVSEA	MAY-08	GSA	SILVER SHIPS	JUN-08	JUN-09	YES	
6C005 HSMST										
SHIPS	12	0.172	NAVSEA	DEC-07	GSA	SILVER SHIPS	FEB-08	JUN-08	YES	
6C007 FACT (FAST ATTACK CRAFT TARGET)										
SHIPS	2	0.352	NAVSEA	MAY-08	GSA	HANN POWERBOATS	MAY-08	JUN-09	YES	
FY 2009										
6C005 HSMST										
SHIPS	12	0.175	NAVSEA	MAY-09	GSA	SILVERSHIPS	MAY-09	SEP-09	YES	
6C007 FACT (FAST ATTACK CRAFT TARGET)										
SHIPS	2	0.360	NAVSEA	MAY-09	GSA	HANN POWERBOATS	MAY-09	SEP-09	YES	
H0CA1 TARGETS TRAINING RANGE ENHANCEMENTS										
SHIPS	32	0.250	NAVSEA	JUL-09	GSA	TBD	AUG-09	DEC-09		
FY 2010										
6C005 HSMST										
SHIPS	9	0.178	NAVSEA	DEC-09	GSA	TBD	FEB-10	JUN-10		
6C007 FACT (FAST ATTACK CRAFT TARGET)										
SHIPS	1	0.368	NAVSEA	DEC-09	GSA	TBD	FEB-10	AUG-10		

CLASSIFICATION:	UNCLASSIFIED											
Exhibit P-40, BUDGET ITEM JUSTIFICATION								DATE May 2009				
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**						P-1 LINE ITEM NOMENCLATURE EXPLOSIVE ORDNANCE DISPOSAL EQUIP **SUBHEAD NO. 74VN BLI: 5509**						
Program Element for Code B Items 0603654N/0604653N						Other Related Program Elements 0204424N/0205671N/0203426N						
	Prior Years	ID Code		Baseline FY 2008	Baseline FY 2009	Baseline FY 2010	OCO FY 2010	Total FY2010				
Quantity	0			0	0	0	0	0				
COST (In Millions)	62.8	A		* 205.6	** 75.9	54.0	43.7	97.7				
SPARES COST (In Millions)	13.6	0		0.2	0.1	0.6		0.6				

PROGRAM DESCRIPTION/JUSTIFICATION:

The Navy is responsible for the management and execution of the Joint Service Explosive Ordnance Disposal (EOD) unified procurement system as assigned by DOD Directive 5160.62. All procurement of EOD tools and equipment, both initial outfitting and replenishment, for all military services is made by the Navy. The Navy provides all procurement services. There is an annual average of 300 procurement actions for this material. Each military service funds its own hardware.

* FY 2008 value includes Title IX Supplemental of $99.8M in Cost Code GW1X1 and GWOT OIF Supplemental of $67.640M in Cost Code VNG86.

** FY 2009 value includes Overseas Contingency Operations (OCO) of $18M in cost code VN075 and $11.460M in cost code VN077.

VN075 - EOD EQUIPMENT/SYSTEM:

EOD MAN TRANSPORTABLE ROBOTIC SYSTEM (MTRS): A two man portable robotic system that provides the EOD Technician the capability to perform EOD tasks. An Abbreviated Acquisition Program (AAP) with no formal DT/OT required. Also provided for Block Upgrades.

EOD DECISION SUPPORT SYSTEM (EOD DSS)/INITIAL CAPABILITY: Provides the EOD technician access to EOD information and maintains current capability to collect and analyze ordnance information, and to develop render safe procedures. DSS Initial Capability directly transitions technology and systems from the Knowledge Technology Operational Demonstration (KTOD) Advanced Concepts Technology Demonstration (ACTD).

JOINT SERVICE IMPROVISED EXPLOSIVE DEVICE COUNTERMEASURES (JS IED CM)/INITIAL CAPABILITY: Provides for the improved performance of existing IED CM systems.

UNMANNED AERIAL SYSTEMS (UAS): Procurement of Unmanned Aerial Systems (UAS) to support the Joint Rapid Acquisition Cell (JRAC) designated Immediate Warfighter Need (IWN) for EOD responses to Improvised Explosive Devices (IEDs) of OIF. (OCO)

FUTURE RADIOGRAPHIC SYSTEM (FRS): Provides a much increased radiographic/diagnostic capability for the EOD technician responding to new requirements.

TRANSMITTER, COUNTERMEASURES (TCM) AN/PLT-XXX (CLASSIFIED PROJECT III): A system that provides the EOD technician protection from Improvised Explosive Devices (IEDs) and deliberate explosive devices by preventing their initiation, while working in close proximity to suspect devices. Also provides for Block Upgrades.

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**	P-1 LINE ITEM NOMENCLATURE EXPLOSIVE ORDNANCE DISPOSAL EQUIP **SUBHEAD NO. 74VN BLI: 5509**	

VN077 - EOD OUTFITTING:

MATERIAL FOR NAVSCOLEOD: Provides for inert ordnance material to NAVSCOLEOD in support of Joint Service training.

EOD MOBILE UNIT ALLOWANCE: Initial outfitting of tools/equipment and personal issue items for increased allowances on the CNO approved Allowance List for both active Fleet and Naval Reserve EOD units.

EOD TACTICAL COMMS: Outfitting of tactical communications systems for EOD units/Dets for allowances on the CNO approved Allowance List.

SPECIAL MISSION PROGRAM: Provides for outfitting of Navy EOD Special Mission Program equipment in support of COCOMs and national response.

EOD IED ELECTRONIC COUNTERMEASURES (ECM): Provides for the outfitting of ECM systems specifically for EOD use that prevent the initiation of Remote Controlled IED (RCIED) threats.

JS EOD MOBILE ICE MODULES: Self contained, deployable MILVAN type container configured and outfitted to perform ordnance and IED exploitation.

COMBINED EXPLOSIVE EXPLOITATION CELL (CEXC)/NEODTECH TSD: Provides for the outfitting of type 2-SEA Duty EOD Detachment to address operational requirements for IED exploitation support of global tasking.

COMBINED EXPLOSIVE EXPLOITATION CELL (CEXC)/NEODTECH TSD: Provides for the outfitting of type 2-SEA Duty EOD Detachment to address operational requirements for Need (IWN) for EOD responses to Improvised Explosive Devices (IEDs) of OIF. (OCO)

ANECHOIC CHAMBER: Installation and certification of an anechoic chamber to improve the evaluation of CREW equipment, IED and WMD detection and neutralization equipment for the Joint Service EOD Community. (OCO)

JOINT SERVICE EOD ROBOTIC SYS CONTINUOUS IMPROVEMENT: Procurement of MTRS and CIP tools and equipment that will provide increased standoff capabilities to the EOD users operating configured EOD robots responding to IED and UXO threats. (OCO)

EOD MOBILE UNIT ALLOWANCE: Initial outfitting of tools/equipment and personal issue items for increased allowances on the CNO approved Allowance List for both active Fleet and Naval Reserve EOD units. (OCO)

EOD IED ELECTRONIC COUNTERMEASURES (ECM): Provides for the outfitting of ECM systems specifically for EOD use that prevent the initiation of Remote Controlled IED (RCIED) threats. (OCO)

VN830 - PRODUCTION ENGINEERING:

Review all technical data packages prior to procurement and provide procurement instruction to the procuring activity in support of the EOD unified procurement system. Provides production engineering support for all EOD production contracts.

VN850 - PRODUCT IMPROVEMENT
Engineering services to improve EOD Systems/Equipment in production to improve maintainability, utilize current technology and decrease cost.

VN860 - ACCEPTANCE, TEST & EVALUATION:
Test, inspect, accept first articles and, on a 100% basis, the production quantity of EOD tools and equipment and Joint CREW systems being procured. These tools and systems are man-rated, and proper functioning of each item must be verified.

VN870 - JOINT CREW
CONVOY PLANNING TOOL: Procure systems in support of convoy planning tool.

SYMPHONY CREW: Provides for the procurement of Symphony systems to support real-time Joint Urgent Operational Needs (JUONS) and Immediate Warfighter Needs (IWN).

CREW 2.1 MOUNTED SYSTEMS: Upgrade existing NECC CREW CVRJ Systems to Band C capability. (OCO)

VNTNG - INITIAL TRAINING:
Provide training support packages which include curriculum material for Joint Service EOD Systems Equipment.

GW1X1 - TITLE IX SUPPLEMENTAL:
EOD MAN TRANSPORTABLE ROBOTIC SYSTEM (MTRS): Provides EOD robots to replace destroyed Navy EOD robots during OEF/OIF Eastern Mediterranean Operations.

COUNTER RADIO CONTROLLED IED ELECTRONIC WARFARE SYSTEMS: Provides for the procurement of CREW systems to outfit NECC vehicles with mounted CREW systems required to support OCO, MCO and contingency operations.

UNMANNED AERIAL SYSTEMS (UAS): Procurement of Unmanned Aerial Systems (UAS) to support the Joint Rapid Acquisition Cell (JRAC) designated Immediate Warfighter Need (IWN) for EOD responses to Improvised Explosive Devices (IEDs) of OIF.

SCAN EAGLE: Procurement of Scan Eagle to Scan Eagle Unmanned Air System in support of SOCCENT JUONS-0265.

VNG86 - GWOT OIF SUPPLEMENTAL:
COUNTER RADIO CONTROLLED IED ELECTRONIC WARFARE SYSTEMS: Provides for the procurement of CREW systems to outfit NECC vehicles with mounted CREW systems required to support OCO, MCO and contingency operations.

UNMANNED AERIAL SYSTEMS (UAS): Procurement of Unmanned Aerial Systems (UAS) to support the Joint Rapid Acquisition Cell (JRAC) designated Immediate Warfighter Need (IWN) for EOD responses to Improvised Explosive Devices (IED's) of OIF.

CLASSIFICATION:	UNCLASSIFIED														
EXHIBIT P-5 COST ANALYSIS			Weapon System												DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code **A**			P-1 LINE ITEM NOMENCLATURE **EXPLOSIVE ORDNANCE DISPOSAL EQUIP** **SUBHEAD NO. 74VN**										
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS												
			Prior Years	FY 2008			FY 2009			Baseline FY 2010			OCO FY 2010		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	EQUIPMENT														
	EXPEDITIONARY WARFARE														
GW1X1	TITLE IX														
	UNMANNED AERIAL SYSTEM	A	0.000	92	0.402	37.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	EOD MTRS		0.000	9	0.156	1.400	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	MOUNTED CREW SYSTEM		0.000	360	0.098	35.400	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	SCAN EAGLE		0.000	4	6.500	26.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
VN075	EOD EQUIPMENT/SYSTEMS														
	EOD MTRS	A	7.562	12	0.136	1.634	19	0.145	2.755	20	0.130	2.713	0	0.000	0.000
	EOD DSS INITIAL CAPABILITY	A	4.011	52	0.059	3.075	20	0.060	1.200	30	0.040	1.200	0	0.000	0.000
	EOD FUTURE RADIOGRAPHIC SYSTEM	B	0.000	0	0.000	0.000	0	0.000	0.000	67	0.080	5.360	0	0.000	0.000
	TRANSMITTER, COUNTERMEASURES (TCM) AN/PLT-XXX	B	2.600	60	0.025	1.500	246	0.025	6.150	41	0.034	1.390	0	0.000	0.000
	UNMANNED AERIAL SYSTEM (OCO)		0.000	0	0.000	0.000	35	514	18.000	0	0.000	0.000	35	514	18.000
VN077	EOD OUTFITTING														
	QDR RENDER SAFE	A	0.000	0	0.000	19.100	0	0.000	19.100	0	0.000	19.100	0	0.000	0.000
	SPECIAL MISSION PROGRAM	A	0.000	0	0.000	2.940	0	0.000	0.000	0	0.000	2.539	0	0.000	0.000
	JS EOD MOBILE ICE MODULES	A	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.255	0	0.000	0.000
	EOD IED ECM	A	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	7.400	0	0.000	0.000
	COMBINED EXPLOSIVE EXPLOITATION CELL	A	0.000	0	0.000	0.000	0	0.000	1.900	0	0.000	0.600	0	0.000	0.000
	MATERIAL FOR NAVSCOLEOD	A	0.400	0	0.000	0.238	0	0.000	0.300	0	0.000	0.350	0	0.000	0.000
	EODMU ALLOWANCE	A	13.657	0	0.000	6.132	0	0.000	11.207	0	0.000	8.195	0	0.000	0.000
	EOD TACTICAL COMMS	A	1.000	0	0.000	1.000	0	0.000	1.000	0	0.000	1.000	0	0.000	0.000
	ANECHOIC CHAMBER (OCO)		0	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	1.900
	JS EOD ROBOTIC SYS CIP (OCO)		0	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	2.000
	COMBINED EXPLOSIVE EXPLOITATION CELL (OCO)		0.000	0	0.000	0.000	0	0.000	2.760	0	0.000	0.000	0	0.000	0.750
	EOD IED ECM (OCO)		0.000	0	0.000	0.000	0	0.000	1.330	0	0.000	0.000	0	0.000	0.000
	EODMU ALLOWANCE (OCO)		0.000		0.000	0.000	0	0.000	7.370	0	0.000	0.000	0	0.000	0.000
VN830	PRODUCTION ENGINEERING	A	1.368	0	0.000	0.649	0	0.000	0.652	0	0.000	0.660	0	0.000	0.000
VN850	PRODUCT IMPROVEMENT	A	1.439	0	0.000	0.630	0	0.000	0.701	0	0.000	0.672	0	0.000	0.000

CLASSIFICATION:	UNCLASSIFIED														
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)			Weapon System												DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code **A**			P-1 LINE ITEM NOMENCLATURE **EXPLOSIVE ORDNANCE DISPOSAL EQUIP** **SUBHEAD NO. 74VN**										
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS												
			Prior Years	FY 2008			FY 2009			Baseline FY 2010			OCO FY 2010		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
VN860	ACCEPTANCE, TEST & EVALUATION	A	0.690	0	0.000	1.104	0	0.000	0.880	0	0.000	0.380	0	0.000	0.000
	JOINT CREW														
	JOINT CREW ACCEPTANCE TEST & EVALUATION	A	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	2.005	0	0.000	0.000
VN870	JOINT CREW														
	CONVOY PLANNING TOOL		0.000	0	0.000	0.000	0	0.000	0.244	0	0.000	0.000	0	0.000	0.000
	SYMPHONY CREW	A	19.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	CREW 2.1 MOUNTED SYSTEMS			0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	669	0.031	21.000
VNG86	GWOT OIF														
	UNMANNED AERIAL SYSTEM	A	0.000	90	0.402	36.200	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	MOUNTED CREW SYSTEM		0.000	320	0.098	31.440	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
VNTNG	INITIAL TRAINING	A	0.575	0	0.000	0.200	0	0.000	0.320	0	0.000	0.250	0	0.000	0.000
	EXPEDITIONARY WARFARE Subtotal		**62.810**			**205.642**			**75.817**			**54.069**			**43.650**
	TOTAL EQUIPMENT		**62.81**			**205.642**			**75.817**			**54.069**			**43.650**
	TOTAL		**62.810**			**205.642**			**75.817**			**54.069**			**43.650**

CLASSIFICATION:	UNCLASSIFIED													
EXHIBIT P-5 COST ANALYSIS			Weapon System										DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code **A**			P-1 LINE ITEM NOMENCLATURE **EXPLOSIVE ORDNANCE DISPOSAL EQUIP** **SUBHEAD NO. 74VN**								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS											
				FY2010 Total									Total	
				Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Total Cost
	EQUIPMENT **EXPEDITIONARY WARFARE**													
GW1X1	TITLE IX													
	UNMANNED AERIAL SYSTEM	A		0	0.000	0.000							92	37.000
	EOD MTRS			0	0.000	0.000							9	1.400
	MOUNTED CREW SYSTEM			0	0.000	0.000							360	35.400
	SCAN EAGLE			0	0.000	0.000							4	26.000
VN075	EOD EQUIPMENT/SYSTEMS													
	EOD MTRS	A		20	0.130	2.713							51	7.102
	EOD DSS INITIAL CAPABILITY	A		30	0.040	1.200							102	5.475
	EOD FUTURE RADIOGRAPHIC SYSTEM	B		67	0.080	5.360							67	5.360
	TRANSMITTER, COUNTERMEASURES (TCM) AN/PLT-XXX	B		41	0.034	1.390							347	9.040
	UNMANNED AERIAL SYSTEM (OCO)			35	514.000	18.000							70	36.000
VN077	EOD OUTFITTING													
	QDR RENDER SAFE	A		0	0.000	19.100							0	57.300
	SPECIAL MISSION PROGRAM	A		0	0.000	2.539							0	5.479
	JS EOD MOBILE ICE MODULES	A		0	0.000	0.255							0	0.255
	EOD IED ECM	A		0	0.000	7.400							0	7.400
	COMBINED EXPLOSIVE EXPLOITATION CELL	A		0	0.000	0.600							0	2.500
	MATERIAL FOR NAVSCOLEOD	A		0	0.000	0.350							0	0.888
	EODMU ALLOWANCE	A		0	0.000	8.195							0	25.534
	EOD TACTICAL COMMS	A		0	0.000	1.000							0	3.000
	ANECHOIC CHAMBER (OCO)			0	0.000	1.900							0	1.900
	JS EOD ROBOTIC SYS CIP (OCO)			0	0.000	2.000							0	2.000
	COMBINED EXPLOSIVE EXPLOITATION CELL (OCO)			0	0.000	0.750							0	3.510
	EOD IED ECM (OCO)			0	0.000	0.000							0	1.330
	EODMU ALLOWANCE (OCO)			0	0.000	0.000							0	7.370
VN830	PRODUCTION ENGINEERING	A		0	0.000	0.660							0	1.961
VN850	PRODUCT IMPROVEMENT	A		0	0.000	0.672							0	2.003

CLASSIFICATION:	UNCLASSIFIED													
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)			Weapon System										DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code **A**	P-1 LINE ITEM NOMENCLATURE **EXPLOSIVE ORDNANCE DISPOSAL EQUIP** **SUBHEAD NO. 74VN**										
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS											
				FY2010 Total									Total	
				Quantity	Unit Cost	Total Cost							Quantity	Total Cost
VN860	ACCEPTANCE, TEST & EVALUATION	A		0	0.000	0.380							0	2.364
	JOINT CREW													
	JOINT CREW ACCEPTANCE TEST & EVALUATION	A		0	0.000	2.005							0	2.005
VN870	JOINT CREW													
	CONVOY PLANNING TOOL			0	0.000	0.000							0	0.244
	SYMPHONY CREW	A		0	0.000	0.000							0	0.000
	CREW 2.1 MOUNTED SYSTEMS			669	0.031	21.000							669	21.000
VNG86	GWOT OIF													
	UNMANNED AERIAL SYSTEM	A		0	0.000	0.000							90	36.200
	MOUNTED CREW SYSTEM			0	0.000	0.000							320	31.440
VNTNG	INITIAL TRAINING	A		0	0.000	0.250							0	0.770
						97.719								**379.178**
	TOTAL EQUIPMENT					**97.719**								**379.178**
	TOTAL					**97.719**								**379.178**

CLASSIFICATION:	UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				**DATE** **May 2009**	
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**					**P-1 LINE ITEM NOMENCLATURE** **EXPLOSIVE ORDNANCE DISPOSAL EQUIP** **BLIN: 5509**				**SUBHEAD** **74VN**	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAIL NOW	DATE REVISIONS AVAILABLE
FY 2008										
GW1X1 TITLE IX										
EOD MTRS	9	0.156	NSWCIHD, IH, MD	DEC-07	FFP	F.MILLER & IROBOT, MA	JAN-08	MAY-08	YES	
MOUNTED CREW SYSTEM	360	0.098	NAVSEA, WASHINGTON, DC	NOV-07	FFP	ITT, CA	MAR-08	AUG-08	YES	
UNMANNED AERIAL SYSTEM	92	0.402	NAVAIR, PAX RIVER, MD	DEC-07	FFP	HONEYWELL, NM	MAR-08	JUL-08	YES	
SCAN EAGLE	4	6.500	NAVAIR, PAX RIVER, MD		FFP	INSITT,INC	APR-09	APR-09	YES	
VN075 EOD EQUIPMENT/SYSTEMS										
EOD MTRS	12	0.136	NSWCIHD, IH, MD		FFP	F. MILLER & IROBOT, MA	JAN-08	MAY-08	YES	
EOD DSS INITIAL CAPABILITY	52	0.059	NSWCIHD, IH, MD		FFP	L3 COMMUNICATIONS, VA	MAY-08	OCT-08		MAR-08
TRANSMITTER, COUNTERMEASURES (TCM) AN/PLT-XXX	60	0.025	NSWCIHD, IH, MD		FFP	SENSOR, CA & THERMO NM	APR-08	AUG-08		AUG-08
VNG86 GWOT OIF										
MOUNTED CREW SYSTEM	320	0.098	NAVSEA, WASHINGTON, DC	NOV-07	FFP	ITT, CA	AUG-08	MAR-09	YES	
UNMANNED AERIAL SYSTEM	90	0.402	NAVAIR, PAX RIVER, MD	DEC-07	FFP	HONEYWELL, NM	MAR-08	JUL-08		
FY 2009										
VN075 EOD EQUIPMENT/SYSTEMS										
EOD MTRS	19	0.145	NSWCIHD, IH, MD		FFP	F.MILLER & IROBOT, MA	JAN-09	MAY-09	YES	
EOD DSS INITIAL CAPABILITY	20	0.060	NSWCIHD, IH, MD		FFP	TBD	JAN-09	MAY-09		MAR-08
TRANSMITTER, COUNTERMEASURES (TCM) AN/PLT-XXX	246	0.025	NSWCIHD, IH, MD		FFP	TBD	JAN-09	JUL-09		AUG-08
UNMANNED AERIAL SYSTEM (OCO)	35	0.514	NAVAIR, PAX RIVER, MD		Various	HONEYWELL, NM	Feb-09	May-09	YES	Dec-09
FY 2010										
VN075 EOD EQUIPMENT/SYSTEMS										
EOD MTRS	20	0.130	NSWCIHD, IH, MD		FFP	F.MILLER & IROBOT, MA	JAN-10	APR-10	YES	
EOD DSS INITIAL CAPABILITY	30	0.040	NSWCIHD, IH, MD		FFP	TBD	JAN-10			JUL-09
EOD FUTURE RADIOGRAPHIC SYSTEM	67	0.080	NSWCIHD, IH, MD		FFP	TBD	JAN-10	AUG-10	YES	
TRANSMITTER, COUNTERMEASURES (TCM) AN/PLT-XXX	41	0.034	NSWCIHD, IH, MD		FFP	TBD	JAN-10	APR-10		
UNMANNED AERIAL SYSTEM (OCO)	35	0.514	NAVAIR, PAX RIVER, MD		Various	HONEYWELL, NM	MAR-11	AUG-11	YES	Dec-07
VN870 CREW										
CREW 2.1 MOUNTED SYSTEMS	669	31	NAVSEA, WASHINGTON, DC		FFP	ITT, THOUSAND OAKS, CA	TBD			

CLASSIFICATION:	UNCLASSIFIED											
Exhibit P-40, BUDGET ITEM JUSTIFICATION											DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**						P-1 LINE ITEM NOMENCLATURE ITEMS LESS THAN $5 MILLION **SUBHEAD NO. 84RA BLI: 5543**						
Program Element for Code B Items						Other Related Program Elements						
	Prior Years	ID Code		FY 2008	FY 2009	FY 2010						
Quantity	0			0	0	0						
COST (In Millions)	14.9			6.6	6.7	3.5						
SPARES COST (In Millions)	0.2	0		0.0	0.0	0.0						

PROGRAM DESCRIPTION/JUSTIFICATION:

RA001 - MK92 ORDALT PROCUREMENT

Provides hardware and related materials to modify Fire Control System MK92 Mod 2/6 installed onboard FFG 7 Class ships. Modifications correct safety, environmental, Reliability, Maintainability and Availability (RM&A), cost of ownership and obsolescence deficiencies to maintain the readiness of the Anti-Aircraft Warfare/Anti-Surface Warfare (AAW/ASUW) Weapons System mission for self and area defense against hostile air and surface threats, including anti-ship missile threats. Hardware is procured as Ordnance Alterations (ORDALTs). Installation of ORDALTs will be accomplished by either AIT (Alteration Installation Teams) or in conjunction with routine repair actions planned in the fiscal years following the procurement.

RA4M6 - MK92 ORDALT INSTALLATION

Provides funding to install procured MK92 ORDALTs into FFG 7 Class ships by AIT.

RA003 - INDUSTRIAL FACILITIES (CALIBRATION EQUIPMENT):

Provides funding for capital type rehabilitation projects at two (2) government-owned, contractor- operated (GOCO) plants for weapon systems. Federal Acquisition Regulation Part 52.245-7 specifies facilities use contracts require government funding of capital type rehabilitation projects to support and maintain these facilities. These plants have an average age of 45 years and lack of proper maintenance will severely limit capabilities to maintain scheduled production rates and overall productivity. Estimates support environmental, safety, energy conservation, and major repair at the GOCO facilities.

RA004 - QUALITY EVALUATION TECHNOLOGIES AND EQUIPMENT

Provides funding to procure test systems and equipment in support of the Navy weapons systems and ordnance Quality Evaluation (QE) Program. The purpose of the Navy QE Program is to insure that only safe, quality, reliable, and ready Navy and Marine Corps weapons systems and ordnance items are provided to the Fleet. The results of the QE stock surveillance testing is technical readiness data used to predict when items degrade to the point where they become unsafe to store or would fail to function (unreliable) when needed and should be removed from service.

This generic (non-weapons systems specific) test equipment is needed to assess the effects of aging and exposure to environmental conditions on Navy weapons systems and ordnance such as mines, gun ammunition, missiles, pyrotechnics, demolition systems/devices, bombs, and torpedoes throughout the in-service portion

of their life cycle and will be located at NAVSEA engineering field activities. Requirements for the test equipment come from a need to replace or modernize obsolete or economically non-repairable equipment or to acquire new or expanded generic test capabilities when new evaluation techniques or processes are needed. The equipments procured by these funds are generally "one of a kind" and are used to support generic Navy weapons systems and ordnance types. Weapons systems specific equipment is procured/funded via the individual weapons system Program Management offices. After the weapon specific equipment has entered the inventory, these funds adapt the capability, if feasible, to become more generic and support more than one weapon system. This reduces the overall economic burden to the Navy.

RA005 - FLEET MINE SUPPORT EQUIPMENT

The Fleet Mine Support program provides for procurement of material and production support for readiness of all mines in stockpile. This includes both the service mine program and the Mine Exercise and Training (MET) Program in accordance with OPNAVNOTE C8550. Funds will provide the following: (A) Procurement of mine materials to replace expended components used during the MET program for delivery proficiency. (B) Procurement of mine materials to replace expended components used during the MET program for Mine Countermeasures (MCM) proficiency. (C) Procurement of components to improve mine operational characteristics and capabilities, such as upgraded processors for compatibility with current and projected technology. (D) Procurement of new MET shapes for MCM proficiency.

RA830 - FLEET MINE SUPPORT PRODUCTION ENGINEERING

Funds will provide production engineering support for mine assembly and loading, proof and test of mine components delivered from procurement. Certification of specialization/documentation relating to mine material to be procured, engineering and quality assurance services in support of mine material procurements and publications in support of component assembly and test for service and MET program.

CLASSIFICATION:	UNCLASSIFIED											
EXHIBIT P-5 COST ANALYSIS			Weapon System									DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code	P-1 LINE ITEM NOMENCLATURE **ITEMS LESS THAN $5 MILLION** **SUBHEAD NO. 84RA**								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2008			FY 2009			FY 2010		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	EQUIPMENT											
RA004	MAINTENANCE SUPPORT ACTIVITIES											
	QUALITY EVAL TECH & EQUIPMENT		4.411	0	0.000	1.536	0	0.000	1.587	0	0.000	1.530
	Subtotal		**4.411**			**1.536**			**1.587**			**1.530**
RA005	MINE COUNTERMEASURES FORCES											
	MINE SYSTEM SUPPORT	A	1.917	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
RA830	MINE COUNTERMEASURES FORCES											
	PRODUCTION ENGINEERING		0.298	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	Subtotal		**2.215**			**0.000**			**0.000**			**0.000**
RA001	FRIGATES - MISSILE											
	FLT SUPPORT ORDALTS (MK92)	A	2.273	4	0.191	0.762	5	0.160	0.799	2	0.406	0.812
RA003	GOCO FACILITIES											
	INDUSTRIAL FACILITIES (CALIB. EQUIP.)		2.834	3	0.336	1.008	3	0.344	1.031	3	0.346	1.037
RA4M6	FRIGATES - MISSILE											
	FMP INSTALLATION		0.263	6	0.016	0.095	4	0.025	0.098	5	0.020	0.099
RACA1	GOCO FACILITIES											
	NIROP INDUSTRIAL FACILITIES MATERIALS STAGING AREA		2.936	0	0.000	3.171	0	0.000	3.200	0	0.000	0.000
	Subtotal		**8.306**			**5.036**			**5.128**			**1.948**
	TOTAL EQUIPMENT		**14.932**			**6.572**			**6.715**			**3.478**
	TOTAL		**14.932**			**6.572**			**6.715**			**3.478**

CLASSIFICATION:	UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				**DATE May 2009**	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 4					**P-1 LINE ITEM NOMENCLATURE ITEMS LESS THAN $5 MILLION BLIN: 5543**				**SUBHEAD 84RA**	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAIL NOW	DATE REVISIONS AVAILABLE
FY 2008										
RA001 FRIGATES - MISSILE										
FLT SUPPORT ORDALTS (MK92)	4	0.191	NSWC/PHD		CPFF	LOCKHEED/NJ	APR-08	APR-09	YES	
RA003 GOCO FACILITIES										
INDUSTRIAL FACILITIES (CALIB. EQUIP.)	3	0.336	DEFENSE SUPPLY CENTER, VA		MIPR	TBD	JUN-08	SEP-08	YES	
RA4M6 FRIGATES - MISSILE										
FMP INSTALLATION	6	0.016	NAVSEA		WR	NSWC/PHD LED AIT	NOV-07	NOV-07	YES	
FY 2009										
RA001 FRIGATES - MISSILE										
FLT SUPPORT ORDALTS (MK92)	5	0.160	NSWC/PHD		CPFF	LOCKHEED/NJ	APR-09	APR-10	YES	
RA003 GOCO FACILITIES										
INDUSTRIAL FACILITIES (CALIB. EQUIP.)	3	0.344	DEFENSE SUPPLY CENTER, VA		MIPR	TBD	MAR-09	JUL-09	YES	
RA4M6 FRIGATES - MISSILE										
FMP INSTALLATION	4	0.025	NAVSEA		WR	NSWC/PHD LED AIT	NOV-08	NOV-08	YES	
FY 2010										
RA001 FRIGATES - MISSILE										
FLT SUPPORT ORDALTS (MK92)	2	0.406	NSWC/PHD		CPFF	LOCKHEED/NJ	APR-10	APR-11		
RA003 GOCO FACILITIES										
INDUSTRIAL FACILITIES (CALIB. EQUIP.)	3	0.346	DEFENSE SUPPLY CENTER, VA		MIPR	TBD	MAR-10	AUG-10	YES	
RA4M6 FRIGATES - MISSILE										
FMP INSTALLATION	5	0.020	NAVSEA		WR	NSWC/PHD LED AIT	NOV-09	NOV-09		

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**	P-1 LINE ITEM NOMENCLATURE ANTI-SHIP MISSILE DECOY SYSTEM **SUBHEAD NO. A4VV BLI: 5530**	
Program Element for Code B Items PE 0204228N	Other Related Program Elements N/A	

	Prior Years	ID Code		FY 2008	FY 2009	FY 2010						
Quantity	99			0	0	0						
COST (In Millions)	385.2	A		42.1	38.0	37.1						
SPARES COST (In Millions)	23.4	0		0.0	0.0	0.0						

PROGRAM DESCRIPTION/JUSTIFICATION:

The Anti-Ship Missile Decoy Program covers a family of decoys and the equipment to deploy them. It is an essential element of the Anti-Ship Missile Defense tactics to counter the threat of enemy homing missiles. Nulka is a joint program with Australia, and is currently in service with the Australian, Canadian, and United States Navies. This line contains various equipment and subsystems for a system which will provide the capability to defeat the effectiveness of hostile Anti-Ship cruise missiles. Currently Nulka is scheduled to be installed on the following ship classes: DDG 51, CG 47, FFG 7, LSD 41, LSD 49, LPD 17, LHA 6, and WMSL ships. The installation is performed during a limited availability by shipalt/Alteration Installation Team (AIT).

Equipment Installation: Funding is for the installation of equipment, including Fleet Modernization Program Installs, and installation of equipment at shore facilities.

CLASSIFICATION:	UNCLASSIFIED											
EXHIBIT P-5 COST ANALYSIS			Weapon System									DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code	P-1 LINE ITEM NOMENCLATURE **ANTI-SHIP MISSILE DECOY SYSTEM** **SUBHEAD NO. A4VV**								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2008			FY 2009			FY 2010		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	EQUIPMENT											
VV001	NULKA SYSTEMS	A	33.688	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
VV002	NULKA DECOYS	A	221.991	55	0.513	28.217	63	0.409	25.782	55	0.545	29.975
VV003	ENGINEERING CHANGES AND LOGISTICS SUPPT											
	EMC ORDALT KITS		14.200	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	ENGINEERING CHANGES		14.211	0	0.000	1.141	0	0.000	1.384	0	0.000	1.167
	LOGISTICS SUPPORT		26.186	0	0.000	3.499	0	0.000	3.496	0	0.000	2.960
VV830	PRODUCTION ENGINEERING		15.569	0	0.000	1.975	0	0.000	1.908	0	0.000	2.050
	TOTAL EQUIPMENT		**325.845**			**34.832**			**32.570**			**36.152**
	INSTALLATION											
VVINS	INSTALLATION OF EQUIPMENT (FMP)		59.343	0	0.000	7.267	0	0.000	5.395	0	0.000	0.976
	TOTAL INSTALLATION		**59.343**			**7.267**			**5.395**			**0.976**
	TOTAL		**385.188**			**42.099**			**37.965**			**37.128**

CLASSIFICATION:	UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				**DATE May 2009**	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 4					**P-1 LINE ITEM NOMENCLATURE ANTI-SHIP MISSILE DECOY SYSTEM BLIN: 5530**				**SUBHEAD A4VV**	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAIL NOW	DATE REVISIONS AVAILABLE
FY 2008										
VV002										
NULKA DECOYS	55	0.513	DCMA PACIFIC		FFP	BAES, AUSTRALIA	FEB-08	FEB-09	YES	
FY 2009										
VV002										
NULKA DECOYS	63	0.409	DCMA PACIFIC		FFP	BAES, AUSTRALIA	FEB-09	FEB-10	YES	
FY 2010										
VV002										
NULKA DECOYS	55	0.545	DCMA PACIFIC		FFP	BAES, AUSTRALIA	FEB-10	FEB-11	YES	

CLASSIFICATION: UNCLASSIFIED																				May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION																				
MODELS OF SYSTEM AFFECTED VV001 NULKA SYSTEMS						TYPE MODIFICATION:						MODIFICATION TITLE: ANTI-SHIP MISSILE DECOY SYSTEM								
DESCRIPTION/JUSTIFICATION:																				
Program funds the procurement and installation of the MK53 NULKA System.																				
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																				

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	98	33.7																	98	33.7
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT	1	1.0																	1	1.0
SUPPORT EQUIPMENT																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	81	59.3	8	7.2	7	5.4	1	1.0											97	72.9
TOTAL PROCUREMENT		94.0		7.2		5.4		1.0												107.6

CLASSIFICATION: UNCLASSIFIED	**May 2009**

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED	MODIFICATION TITLE:
NULKA SYSTEMS	ANTI-SHIP MISSILE DECOY SYSTEM

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:	AIT						
ADMINISTRATIVE LEADTIME:	6 Months	PRODUCTION LEADTIME:	14 Months				
CONTRACT DATES:		FY 2008:		FY 2009:		FY 2010:	
DELIVERY DATES:		FY 2008:		FY 2009:		FY 2010:	

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
PRIOR YEARS	81	59.3	8	7.2	7	5.4	1	1.0											97	72.9
FY 2008 EQUIPMENT																				
FY 2009 EQUIPMENT																				
FY 2010 EQUIPMENT																				

INSTALLATION SCHEDULE

	FY 2007 & Prior	FY 2008				FY 2009				FY 2010				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	
In	81	0	3	0	6	2	2	1	1	1	0	1	0	98
Out	75	2	4	1	0	3	3	3	2	2	1	0	1	97

Remarks: One of the procurements is for a shoresite.

CLASSIFICATION:	UNCLASSIFIED

EXHIBIT P-21, PRODUCTION SCHEDULE

DATE: May 2009

APPROPRIATION/BUDGET ACTIVITY
OTHER PROCUREMENT, NAVY/BA 4

Weapon System

P-1 LINE ITEM NOMENCLATURE
ANTI-SHIP MISSILE DECOY SYSTEM BLI: 5530

Item	Manufacturer's Name and Location	Production Rate MSR	ECON	MAX	Procurement Leadtimes ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure
NULKA DECOYS	BAES, AUSTRALIA	66	0	192	0	6	12	12	18	E

ITEM	FY	SVC	QTY	DEL	BAL	FISCAL YEAR 2008 / CY 2007 OCT	NOV	DEC	CALENDAR YEAR 2008 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	FISCAL YEAR 2009 / CALENDAR YEAR 2009 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	BAL
NULKA DECOYS	2007	N	90	0	90					8	7	8	7	8	7	8	7	8	7	8	7									0
NULKA DECOYS	2008	N	55	0	55					A												7	7	7	7	7	7	6	7	0
NULKA DECOYS	2009	N	63	0	63																	A								63

ITEM	FY	SVC	QTY	DEL	BAL	FISCAL YEAR 2010 / CY 2009 OCT	NOV	DEC	CALENDAR YEAR 2010 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP													BAL
NULKA DECOYS	2009	N	63	0	63					5	5	6	5	5	6	5	5													
NULKA DECOYS	2010	N	55	0	55					A																				

Remarks:

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**	P-1 LINE ITEM NOMENCLATURE SURFACE TRAINING DEVICE MODS **SUBHEAD NO. 84TS BLI: 5660**	
Program Element for Code B Items	Other Related Program Elements	

	Prior Years	ID Code		FY 2008	FY 2009	FY2010						
Quantity	0			0	0							
COST (In Millions)	73.1			9.9	9.8	7.4						
SPARES COST (In Millions)	0.9	0		0.1	0.1	0.1						

PROGRAM DESCRIPTION/JUSTIFICATION:

This line provides funds to modify/upgrade training devices to maintain systems at Fleet configuration and to enhance training capability. Funding is provided annually for modifications to the Device S14A13 Tactical Advanced Simulated Warfare Integrated Trainer (TASWIT) - applicable to the MMTT.

TS004- SURFACE MINOR MODS

These modifications are improvements/upgrades to in-service surface training systems identified by the program offices and training activities, and are approved by the Resource Sponsor. Modifications are required to meet safety standards, keep training systems compatible with equivalent changes made to fleet operational equipment, and to enhance training capabilities. These modifications support the 300+ fielded Surface training systems and their concurrency with fleet operational configuration.

TS004- FFT/SLEP/MODULAR TRAINER

Funds are provided for the Service Life Extension Program (SLEP) of one Firefighter Trainer (FFT) per year.

TS007- MULTI- MISSION TEAM TRAINER

The Multi-Mission Team Trainer (MMTT) provides tactical sensor and command and control simulation for use by ship and ship/air combat teams and battle staff supervisory-level personnel. Funding procures and installs requisite hardware and software for MMTT tech refresh. There are currently three MMTT training systems in operation, SWOS Newport installed in 1999, and FASWTC San Diego and FTC Norfolk both installed in 2000.

CLASSIFICATION:	UNCLASSIFIED											
EXHIBIT P-5 COST ANALYSIS			Weapon System									DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code	P-1 LINE ITEM NOMENCLATURE **SURFACE TRAINING DEVICE MODS** **SUBHEAD NO. 84TS**								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2008			FY 2009			FY 2010		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	EQUIPMENT											
TS004	SURFACE TRAINING DEVICE MODS											
	SURFACE MINOR MODS		6.292	0	0.000	0.670	0	0.000	0.464	0	0.000	0.472
TS004	SURFACE TRAINING DEVICE MODS											
	FFT/SLEP/MODULAR TRAINER		4.141	0	0.000	0.922	0	0.000	0.922	0	0.000	0.922
	SURFACE MINOR MODS		50.700	0	0.000	8.276	0	0.000	8.407	0	0.000	6.036
TS007	MULTI-MISSION TEAM TRAINER		12.006	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	TOTAL EQUIPMENT		**73.139**			**9.868**			**9.793**			**7.430**
	TOTAL		**73.139**			**9.868**			**9.793**			**7.430**

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**		P-1 LINE ITEM NOMENCLATURE SUBMARINE TRAINING DEVICE MODS **SUBHEAD NO. H4TD BLI: 5661**
Program Element for Code B Items		Other Related Program Elements

	Prior Years	ID Code		FY 2008	FY 2009	FY 2010						
Quantity	0			0	0	0						
COST (In Millions)	100.0	A		37.7	37.0	25.3						
SPARES COST (In Millions)	0.2	0		0.1	0.2	0.1						

PROGRAM DESCRIPTION/JUSTIFICATION:

This line provides funds to modify/upgrade training devices to keep them compatible with equivalent changes made to Fleet operational equipment and to implement Training Enhancement Changes (TECs) to the trainer systems capabilities.

TD002 SUBMARINE TRAINING DEVICE MODS

Provides funding for modifications which are upgrades to submarine training systems and TECs which are centrally managed systems. These improvements/upgrades are required to keep training systems, such as the Ship Control Operator Trainer (SCOT), compatible with equivalent changes made to fleet operational equipment and to change trainer capabilities to meet emergent training requirements.

TD006 SUBMARINE COMMON OPERATIONAL ANALYSIS AND EMPLOYMENT TRAINER (COAET)

The COAET is an interactive, fundamental skills-level and employment skills trainer. It allows for introduction of new fleet requirements and upgrades. The purpose of these devices is to provide operator and introductory team training to submarine force personnel prior to entry into the full-up Submarine Multi Mission Team Trainer (SMMTT). It also provides supplemental training to off-load the heavily utilized attack center trainers. COAET provides training utilizing partial tactical builds and emulations of the latest Sonar and Combat Control Systems. These devices provide an environment substantially equivalent to that found on board ship, thus enabling students to develop and maintain the attack center expertise necessary to support Fleet operations. Also provides funding for TECs.

FY08 procures 4 items: Integration of Acoustic Analysis Trainer (AAT) implementation with latest Advanced Processing Build (APB) for towed array processing. Integration of latest Sonar Tactical Decision Aid (STDA) implementation. Modifications are added to sphere emulation and combat control emulation modules to provide training functionality that is required for AN/BQQ-10 and AN/BYG-1. Modifications are provided to periscope simulation hardware. Update 4 Fleet trainer sites.

FY09 procures 4 items: Integration of AAT implementation with latest APB for towed array processing. Integration of latest STDA implementation. Modifications are added to sphere emulation and combat control emulation modules to provide training functionality that is required for AN/BQQ-10 and AN/BYG-1. Modifications

are added to periscope simulation hardware. Update Engineering Production Model (EPM) and 3 Fleet trainer sites.

FY10 procures 4 items: Procures combat control simulation and sonar tactical hardware for four trainer sites. STDA and Ocean Environment simulation will be integrated into the training system. Technical Insertion (TI) updates will match current Fleet configurations for multiple ship classes.

TD009 SUBMARINE MULTI MISSION TEAM TRAINER (SMMTT)

To achieve desired submarine force readiness levels, it is necessary to construct highly sophisticated shore based Combat System Team Trainers capable of training personnel in all aspects of submarine approach, attack and surveillance operations in a controlled, simulated environment. Includes funding for TECs.

The Combat Control System (CCS) AN/BYG-1 is installed on SSN and SSGN Class submarines, and there are currently plans to further upgrade these systems with the hardware revisions which provide enhanced warfighter capabilities. The Tactical Acoustic Rapid COTS (commercial-off-the-shelf) Insertion (ARCI) AN/BQQ-10 phased upgrades are being installed with the next revision which provides enhanced warfighter capabilities. These CCS and ARCI upgrades to the AN/BYG1 and BQQ-10 systems directly impact shore based Team Trainers. Additionally, the Advanced Processor Builds (APB), and Technical Insertions (TIs) are generated yearly and bi-yearly into the CCS/Acoustic deployment, which also impact the trainers.

The Submarine Multi-Mission Team Trainer (SMMTT) supports operator, employment, strike, and Battle Group training for enlisted and officer pipelines for these systems. The SMMTT provides operators and combat teams the opportunity to train ashore, prior to, and between deployments. The shore based training provides a means of maintaining team proficiency in stand alone or in combined team mode prior to ship deployment. SMMTT is also used for SSN/SSGN crew certification. SMMTT Legacy was completed in prior years in this budget account to accomplish the trainer-unique software offload from legacy trainers and enable further enhancements. The current SMMTT was formerly referred to as SMMTT "Phase 3" to distinguish it from the earlier Legacy versions, but is now simply SMMTT.

SMMTT replaced all Military (MIL) Standard hardware in previous systems with commercial emulation hardware, enabling platform independence and wide area network capability. The use of open architecture trainer systems allows for the continuous growth of functional flexibility ultimately leading to employment training conducted for any submarine combat system. Plans are established to likewise upgrade submarine tactical systems to an open architecture, and the trainers will be compatible with the tactical interfaces. This program includes modifications to the functionality of the Periscope Simulator (PSIM) to provide common imaging training for CCS trainers.

FY08 procures 10 items: Five SMMTT systems (includes Engineering Production Model (EPM)) upgraded to appropriate Advanced Processor Build and Technical Insertion. They will be assembled and installed at Fleet training sites. Modifications will be made to EPM to support integration and advancements in tactical systems. Two SSBN sites receive additional hardware (H/W). One SSN-21 SEAWOLF kit procured for EPM modifications. Modifications to EPM for VA Class and procure one VA Class upgrade for New London. Submarine/SMMTT On Board Team Trainer (OBTT) integration and interoperability compliance will be provided to various sites.

FY09 procures 8 items: Five SMMTT systems (includes EPM) upgraded to appropriate Advanced Processor Build and Technical Insertion. They will be assembled and

installed at Fleet training sites. Modifications will be made to EPM to support integration and testing for the advancements in tactical systems. One SSN-21 SEAWOLF kit procured for Bangor, WA, with increased unit cost due to additional hardware required that is not already installed at this site. Modifications to EPM for VA Class and procure one VA Class upgrade for Pearl Harbor.

FY10 procures 6 items: Two SMMTT EPM updates to match the latest Fleet tactical build for SSNs and VA Class unique sensors; four SMMTT kit upgrades to appropriate APB and TI. All SMMTT kits will be assembled and installed at Fleet training sites.

TD015 SUBMARINE NON-TACTICAL APPLICATIONS DELIVERY INTERFACE SYSTEM (SNADIS) NETWORK

This system has been identified by the Submarine Type Commanders and approved by CNO to enable access to all data required to support Fleet Operational, Training, and Administrative requirements through a single, common, force-wide information delivery application interface. This program is for technical data, logistics, and training delivery management. The program must operate within the IT21/NMCI network infrastructure; and should leverage both the VIRGINIA Class paperless ship initiatives and the Navy's non-tactical application development managed by SPAWAR, as well as recognize shipboard requirements for complete non-tactical applications integration. Additionally, broader digital data delivery mechanisms being evaluated by the Navy, such as Technical Data Knowledge Management - Integrated Data Environment (TDKM-IDE), are being employed to construct a comprehensive end-to-end program for identifying and sustaining Fleet information requirements. Fleet Application development needs and associated support are based on Commander, Naval Submarine Forces overarching requirements and priorities. Procures engineering and software for new applications, upgrades for delivered systems, and further Fleet installations of the SNADIS application suite.

TDCA1 SNADIS MAINTENANCE SUPPORT SERVICE MODULE (MSSM)

Congressional Add for use in Navy submarine Fleet systems. SNADIS MSSM is a system upgrade that will be incorporated, integrated, and managed within the existing SNADIS program product line. These funds provide for procurement and support of the MSSM system. The MSSM is an application environment that supports, documents, and reports the material history and readiness condition of various ship systems and components on board submarines consistent with the requirements of the Joint Fleet Maintenance Manual (JFMM).

TDCA5 STANDARDIZED METRICS ASSESSMENT OF READINESS AND TRAINING (SMART)

Standardized Metrics Assessment of Readiness and Training (SMART) provides rapid, objective feedback to sailors regarding the accuracy and consistency of their tactical assessments and will provide a significant improvement in the frequency, objectiveness and quantity of assessments to Force Commanders. It will be integrated into various submarine training systems.

TD6IN INSTALLATION OF EQUIPMENT

Funding is for the installation of trainers, installation support for trainers, and installations in other shore facilities.
Estimates include competitive sourcing savings associated with consolidation of production support contracting efforts.

CLASSIFICATION:	UNCLASSIFIED											
EXHIBIT P-5 COST ANALYSIS			Weapon System								DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code	P-1 LINE ITEM NOMENCLATURE **SUBMARINE TRAINING DEVICE MODS** **SUBHEAD NO. H4TD**								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2008			FY 2009				FY 2010	
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	EQUIPMENT											
TD002	SUBMARINE TRAINING DEVICE MODS											
	SUB TRNG DEV MODS	A	4.564	0	0.000	1.731	0	0.000	1.182	0	0.000	0.973
	VA CLASS TRNG DEV MODS	A	0.000	2	0.127	0.254	0	0.000	0.100	0	0.000	0.000
	SCOT MODS	A	0.000	0	0.000	0.000	0	0.000	1.000	0	0.000	1.020
TD006	SUB COAET											
	TECH SUPPORT	A	1.064	0	0.000	0.427	0	0.000	0.000	0	0.000	0.000
	MODIFICATIONS	A	5.203	4	0.414	1.656	4	0.426	1.704	4	0.948	3.792
TD009	SMMTT PH3											
	MODIFICATIONS	A	53.372	4	1.861	7.444	4	1.839	7.356	4	1.875	7.500
	EPM	A	7.001	1	1.861	1.861	1	1.839	1.839	1	1.875	1.875
	TECH SUPPORT	A	8.165	0	0.000	3.165	0	0.000	4.063	0	0.000	4.234
	MODS SSBN SMMTT	A	3.500	2	0.300	0.600	0	0.000	0.000	0	0.000	0.000
	MODS SEAWOLF SMMTT	A	0.000	1	1.227	1.227	1	4.951	4.951	0	0.000	0.000
	MODS VA CLASS SMMTT	A	0.000	1	3.708	3.708	1	3.723	3.723	0	0.000	0.000
	MODS VA CLASS SMMTT EPM	A	0.000	1	6.786	6.786	1	5.481	5.481	1	2.204	2.204
	MODS OBTT SMMTT	A	0.000	0	0.000	0.750	0	0.000	0.000	0	0.000	1.500
TD015	SNADIS											
	MODIFICATIONS	A	9.007	0	0.000	1.413	0	0.000	1.370	0	0.000	1.447
TDCA1	SNADIS MSSM											
	SNADIS MSSM		6.250	0	0.000	6.000	0	0.000	0.000	0	0.000	0.000

CLASSIFICATION:	UNCLASSIFIED											
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)			Weapon System									DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA 4**			ID Code	P-1 LINE ITEM NOMENCLATURE **SUBMARINE TRAINING DEVICE MODS** **SUBHEAD NO. H4TD**								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2008			FY 2009			FY 2010		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
TDCA5	SMART											
	SMART		0.000	0	0.000	0.000		0.000	3.490	0	0.000	0.000
	TOTAL EQUIPMENT		**98.126**			**37.022**			**36.259**			**24.545**
	INSTALLATION											
TD6IN	INSTALLATION (NON-FMP)	A	1.905	0	0.000	0.689		0.000	0.715	0	0.000	0.726
	TOTAL INSTALLATION		**1.905**			**0.689**			**0.715**			**0.726**
	TOTAL		**100.031**			**37.711**			**36.974**			**25.271**

CLASSIFICATION:	UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 4					P-1 LINE ITEM NOMENCLATURE SUBMARINE TRAINING DEVICE MODS BLIN: 5661				SUBHEAD H4TD	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAIL NOW	DATE REVISIONS AVAILABLE
FY 2008										
TD002 SUBMARINE TRAINING DEVICE MODS										
VA CLASS TRNG DEV MODS	2	0.127	NAVSEA	N/A	WR	NAVAIR TSD/ORLANDO	DEC-07	FEB-09	YES	
TD006 SUB COAET										
MODIFICATIONS	4	0.414	NAVSEA	N/A	REQN	NSWC/CD	DEC-07	JUL-08	YES	
TD009 SMMTT PH3										
MODIFICATIONS	4	1.861	NAVSEA	N/A	REQN	NSWC/CD	DEC-07	NOV-08	YES	
EPM	1	1.861	NAVSEA	N/A	REQN	NSWC/CD	DEC-07	MAR-08	YES	
MODS SSBN SMMTT	2	0.300	NAVSEA	N/A	WR	NUWC/NPT	DEC-07	JUL-08	YES	
MODS SEAWOLF SMMTT	1	1.227	NAVSEA	N/A	REQN	NSWC/CD	DEC-07	MAY-10	YES	
MODS VA CLASS SMMTT	1	3.708	NAVSEA	N/A	REQN	NSWC/CD	DEC-07	JAN-10	YES	
MODS VA CLASS SMMTT EPM	1	6.786	NAVSEA	N/A	REQN	NSWC/CD	DEC-07	OCT-09	YES	
FY 2009										
TD006 SUB COAET										
MODIFICATIONS	4	0.426	NAVSEA	N/A	REQN	NSWC/CD	DEC-08	JUL-09	YES	
TD009 SMMTT PH3										
MODIFICATIONS	4	1.839	NAVSEA	N/A	REQN	NSWC/CD	DEC-08	SEP-10	YES	
EPM	1	1.839	NAVSEA	N/A	REQN	NSWC/CD	DEC-08	JUL-09	YES	
MODS SEAWOLF SMMTT	1	4.951	NAVSEA	N/A	REQN	NSWC/CD	DEC-08	AUG-10	YES	
MODS VA CLASS SMMTT	1	3.723	NAVSEA	N/A	REQN	NSWC/CD	DEC-08	SEP-10	YES	
MODS VA CLASS SMMTT EPM	1	5.481	NAVSEA	N/A	REQN	NSWC/CD	DEC-08	MAR-10	YES	
TDCA5 SMART										
SMART	VAR	3.490	NAVSEA	Dec-08	CPFF	MIKEL, Inc Middletown RI	Feb-09	Oct-09	YES	
FY 2010										
TD006 SUB COAET										
MODIFICATIONS	4	0.948	NAVSEA	N/A	REQN	NSWC/CD	NOV-09	JUL-10	YES	

CLASSIFICATION:	UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				**DATE May 2009**	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 4					**P-1 LINE ITEM NOMENCLATURE SUBMARINE TRAINING DEVICE MODS BLIN: 5661**				**SUBHEAD H4TD**	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAIL NOW	DATE REVISIONS AVAILABLE
TD009 SMMTT PH3										
MODIFICATIONS	4	1.875	NAVSEA	N/A	REQN	NSWC/CD	NOV-09	FEB-11	YES	
EPM	1	1.875	NAVSEA	N/A	REQN	NSWC/CD	NOV-09	SEP-10	YES	
MODS VA CLASS SMMTT EPM	1	2.204	NAVSEA	N/A	REQN	NSWC/CD	NOV-09	MAY-11	YES	

CLASSIFICATION: UNCLASSIFIED																				May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION																				
MODELS OF SYSTEM AFFECTED TD009 SMMTT PH3 MODIFICATIONS						TYPE MODIFICATION: UPGRADES						MODIFICATION TITLE: SUBMARINE TRAINING DEVICE MODS								
DESCRIPTION/JUSTIFICATION:																				
SMMTT upgrades to hardware and simulation to match current Fleet configurations.																				
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: N/A																				
COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	8	53.4	4	7.4	4	7.4	4	7.5											20	75.7
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	4	1.5	4	0.2	4	0.4	4	0.2											16	2.3
TOTAL PROCUREMENT		54.9		7.6		7.8		7.7												78.0

CLASSIFICATION: UNCLASSIFIED																									May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)																									
MODELS OF SYSTEM AFFECTED SMMTT PH3 MODIFICATIONS													MODIFICATION TITLE: SUBMARINE TRAINING DEVICE MODS													
INSTALLATION INFORMATION:																									
METHOD OF IMPLEMENTATION:	CONTRACTOR																								
ADMINISTRATIVE LEADTIME:	6 Months					PRODUCTION LEADTIME:	11 Months																		
CONTRACT DATES:						FY 2008:	DEC-07				FY 2009:	DEC-08				FY 2010:	NOV-09								
DELIVERY DATES:						FY 2008:	NOV-08				FY 2009:	SEP-10				FY 2010:	FEB-11								

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010														TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$													Qty	$
PRIOR YEARS	4	1.5	4	0.2																	8	1.7
FY 2008 EQUIPMENT					4	0.4															4	0.4
FY 2009 EQUIPMENT							4	0.2													4	0.2
FY 2010 EQUIPMENT																						
TO COMPLETE																						

INSTALLATION SCHEDULE

	FY 2007	FY 2008				FY 2009				FY 2010																		TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4															
In	4	0	4	0	0	4	0	0	0	0	0	0	4															16
Out	4	0	4	0	0	4	0	0	0	0	0	0	4															16

Remarks:

CLASSIFICATION: UNCLASSIFIED																				May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION																				
MODELS OF SYSTEM AFFECTED TD009 SMMTT PH3 MODS SEAWOLF SMMTT						TYPE MODIFICATION: TRAINER KIT UPGRADES						MODIFICATION TITLE: SUBMARINE TRAINING DEVICE MODS								
DESCRIPTION/JUSTIFICATION:																				
Provides SSN21 SEAWOLF Class SMMTT systems.																				
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																				
COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT			1	1.2	1	5.0													2	6.2
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST							2	0.3											2	0.3
TOTAL PROCUREMENT				1.2		5.0		0.3												6.5

CLASSIFICATION: UNCLASSIFIED	**May 2009**

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED	MODIFICATION TITLE:
SMMTT PH3 MODS SEAWOLF SMMTT	SUBMARINE TRAINING DEVICE MODS

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:	CONTRACTOR						
ADMINISTRATIVE LEADTIME:	6 Months	PRODUCTION LEADTIME:	25 Months				
CONTRACT DATES:		FY 2008:	DEC-07	FY 2009:	DEC-08	FY 2010:	
DELIVERY DATES:		FY 2008:	MAY-10	FY 2009:	AUG-10	FY 2010:	

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
PRIOR YEARS																				
FY 2008 EQUIPMENT							1	0.2											1	0.2
FY 2009 EQUIPMENT							1	0.1											1	0.1
FY 2010 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2007	FY 2008				FY 2009				FY 2010																							TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4																				
In	0	0	0	0	0	0	0	0	0	0	0	1	1																				2
Out	0	0	0	0	0	0	0	0	0	0	0	1	1																				2

Remarks:

CLASSIFICATION:
UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED																					May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION																					
MODELS OF SYSTEM AFFECTED TD009 SMMTT PH3 MODS SSBN SMMTT						TYPE MODIFICATION: TRAINER KIT UPGRADES						MODIFICATION TITLE: SUBMARINE TRAINING DEVICE MODS									
DESCRIPTION/JUSTIFICATION: Provides SMMTT mods for TTFs Bangor and Kings Bay.																					
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																					
COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL		
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$	
FINANCIAL PLAN(IN MILLIONS)																					
RDT&E																					
PROCUREMENT																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	2	3.5	2	0.6															4	4.1	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST			2	0.4	2	0.3													4	0.7	
TOTAL PROCUREMENT		3.5		1.0		0.3														4.8	

CLASSIFICATION: UNCLASSIFIED	May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED SMMTT PH3 MODS SSBN SMMTT				MODIFICATION TITLE: SUBMARINE TRAINING DEVICE MODS			
INSTALLATION INFORMATION:							
METHOD OF IMPLEMENTATION:	CONTRACTOR AND NAVY FIELD ACTIVITIES.						
ADMINISTRATIVE LEADTIME:	6 Months	PRODUCTION LEADTIME:	7 Months				
CONTRACT DATES:		FY 2008:	DEC-07	FY 2009:		FY 2010:	
DELIVERY DATES:		FY 2008:	JUL-08	FY 2009:		FY 2010:	

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
PRIOR YEARS			2	0.4															2	0.4
FY 2008 EQUIPMENT					2	0.3													2	0.3
FY 2009 EQUIPMENT																				
FY 2010 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2007	FY 2008				FY 2009				FY 2010																						TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4																			
In	0	0	0	0	2	2	0	0	0	0	0	0	0																			4
Out	0	0	0	0	2	2	0	0	0	0	0	0	0																			4

Remarks:

CLASSIFICATION:
UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED																				May 2009
EXHIBIT P-3A INDIVIDUAL MODIFICATION																				
MODELS OF SYSTEM AFFECTED TD009 SMMTT PH3 MODS VA CLASS SMMTT						TYPE MODIFICATION: KITS AND MODIFICATIONS						MODIFICATION TITLE: SUBMARINE TRAINING DEVICE MODS								
DESCRIPTION/JUSTIFICATION:																				
Provides VA Class functions to SMMTT.																				
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																				

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
FINANCIAL PLAN(IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT			1	3.7	1	3.7													2	7.4
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST							2	0.2											2	0.2
TOTAL PROCUREMENT				3.7		3.7		0.2												7.6

CLASSIFICATION: UNCLASSIFIED	**May 2009**

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED	MODIFICATION TITLE:
SMMTT PH3 MODS VA CLASS SMMTT	SUBMARINE TRAINING DEVICE MODS

INSTALLATION INFORMATION:								
METHOD OF IMPLEMENTATION:	CONTRACTOR AND NAVY FIELD ACTIVITIES							
ADMINISTRATIVE LEADTIME:	6 Months		PRODUCTION LEADTIME:	23 Months				
CONTRACT DATES:		FY 2008:	DEC-07	FY 2009:	DEC-08	FY 2010:		
DELIVERY DATES:		FY 2008:	JAN-10	FY 2009:	SEP-10	FY 2010:		

($ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$											Qty	$
PRIOR YEARS																				
FY 2008 EQUIPMENT							1	0.1											1	0.1
FY 2009 EQUIPMENT							1	0.1											1	0.1
FY 2010 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2007 & Prior	FY 2008				FY 2009				FY 2010																							TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4																				
In	0	0	0	0	0	0	0	0	0	0	1	0	1																				2
Out	0	0	0	0	0	0	0	0	0	0	1	0	1																				2

Remarks:

CLASSIFICATION:
UNCLASSIFIED