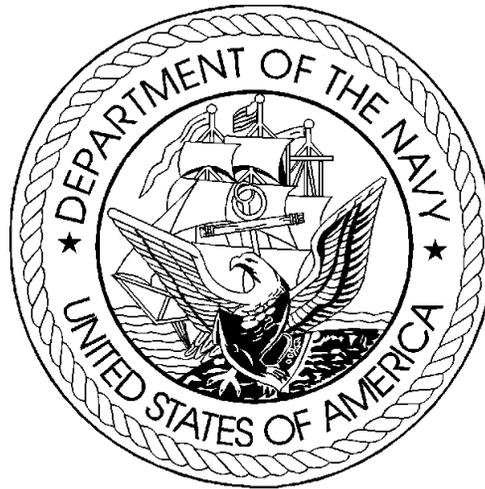


DEPARTMENT OF THE NAVY
FISCAL YEAR (FY) 2010
BUDGET ESTIMATES



JUSTIFICATION OF ESTIMATES
MAY 2009

OTHER PROCUREMENT, NAVY
BUDGET ACTIVITY 1

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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 -----
01. Ships support equipment	1,703,051	1,512,542	1,757,351	25,040	1,782,391
TOTAL Other Procurement, Navy	1,703,051	1,512,542	1,757,351	25,040	1,782,391

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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
 (Dollars in Thousands)

APPROPRIATION: 1810N Other Procurement, Navy

DATE: 05 MAY 2009

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2008 Base&OCO Actuals		FY 2009 Base&OCO SupReq 4/9/09		FY 2010 Base		FY 2010 OCO		FY 2010 Total		S E C
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
BUDGET ACTIVITY 01: Ships support equipment													
SHIP PROPULSION EQUIPMENT													
1	LM-2500 GAS TURBINE	A		8,125		7,949		8,014				8,014	U
2	ALLISON 501K GAS TURBINE	A		9,390		9,377		9,162				9,162	U
3	OTHER PROPULSION EQUIPMENT	A				21,237							U
NAVIGATION EQUIPMENT													
4	OTHER NAVIGATION EQUIPMENT	A		30,450		44,591		34,743				34,743	U
PERISCOPES													
5	SUB PERISCOPES & IMAGING EQUIP	A		47,822		67,179		75,127				75,127	U
OTHER SHIPBOARD EQUIPMENT													
6	DDG MOD	A		52,694		165,008		142,262				142,262	U
7	FIREFIGHTING EQUIPMENT	A		9,063		8,269		11,423				11,423	U
8	COMMAND AND CONTROL SWITCHBOARD	A		2,174		6,326		4,383				4,383	U
9	POLLUTION CONTROL EQUIPMENT	B		32,068		27,841		24,992				24,992	U
10	SUBMARINE SUPPORT EQUIPMENT	A		29,132		22,619		16,867				16,867	U
11	VIRGINIA CLASS SUPPORT EQUIPMENT	A		145,365		182,664		103,153				103,153	U
12	SUBMARINE BATTERIES	A		40,499		41,011		51,482				51,482	U
13	STRATEGIC PLATFORM SUPPORT EQUIP	A		9,993		9,924		15,672				15,672	U
14	DSSP EQUIPMENT	A		6,108		5,716		10,641				10,641	U
15	CG MODERNIZATION	A		216,031		165,165		315,323				315,323	U
16	LCAC	A		65		173		6,642				6,642	U

Exhibit P-1Q: FY 2010 Base and Overseas Contingency Operations (OCO) Request, as of May 5, 2009 at 14:15:20

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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
 (Dollars in Thousands)

APPROPRIATION: 1810N Other Procurement, Navy

DATE: 05 MAY 2009

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2008 Base&OCO Actuals		FY 2009 Base&OCO SupReq 4/9/09		FY 2010 Base		FY 2010 OCO		FY 2010 Total		S E C
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
17	MINESWEEPING EQUIPMENT	A		10,103		10,620							U
18	UNDERWATER EOD PROGRAMS							19,232		12,040		31,272	U
19	ITEMS LESS THAN \$5 MILLION	A		189,846		130,129		127,554				127,554	U
20	CHEMICAL WARFARE DETECTORS	A		4,635		6,579		8,899				8,899	U
21	SUBMARINE LIFE SUPPORT SYSTEM	A		14,008		15,167		14,721				14,721	U
	REACTOR PLANT EQUIPMENT												
22	REACTOR POWER UNITS	A		391,611									U
23	REACTOR COMPONENTS	A		230,013		235,995		262,354				262,354	U
	OCEAN ENGINEERING												
24	DIVING AND SALVAGE EQUIPMENT	A		6,667		6,530		5,304				5,304	U
	SMALL BOATS												
25	STANDARD BOATS	A		88,544		26,760		35,318		13,000		48,318	U
	TRAINING EQUIPMENT												
26	OTHER SHIPS TRAINING EQUIPMENT	A		9,163		5,672		15,113				15,113	U
	PRODUCTION FACILITIES EQUIPMENT												
27	OPERATING FORCES IPE	A		49,855		55,531		47,172				47,172	U
	OTHER SHIP SUPPORT												
28	NUCLEAR ALTERATIONS	A		69,627		70,485		136,683				136,683	U
29	LCS MODULES	A				73,684		137,259				137,259	U

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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
 (Dollars in Thousands)

APPROPRIATION: 1810N Other Procurement, Navy

DATE: 05 MAY 2009

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2008 Base&OCO Actuals		FY 2009 Base&OCO SupReq 4/9/09		FY 2010 Base		FY 2010 OCO		FY 2010 Total		S E C
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
LOGISTIC SUPPORT													
30	LSD MIDLIFE				90,341		117,856					117,856	U
TOTAL Ships support equipment			1,703,051		1,512,542		1,757,351		25,040			1,782,391	
TOTAL Other Procurement, Navy			1,703,051		1,512,542		1,757,351		25,040			1,782,391	

CLASSIFICATION:		UNCLASSIFIED										
Exhibit P-40, BUDGET ITEM JUSTIFICATION										DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						P-1 LINE ITEM NOMENCLATURE LM-2500 GAS TURBINE SUBHEAD NO. 81GA BLI: 0110						
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)	75.0	A		8.1	7.9	8.0						
SPARES COST (In Millions)	0.0	0		0.0	0.0	0.0						
PROGRAM DESCRIPTION/JUSTIFICATION:												
<p>The LM2500 Marine Gas Turbine and its associated Engineering Control Systems provide main propulsion for the Navy's surface combatants including the FFG 7 OLIVER HAZARD PERRY Class, CG 47 TICONDEROGA Class, DDG 51 ARLEIGH BURKE Class, and LCS class.</p> <p>The LM2500 is composed of two major sub-assemblies: the gas generator and power turbine sections.</p> <p>It is coupled to the ship drive-train by a high speed coupling shaft. The control system provides for both local and remote engine operations. The budget funds the following:</p>												
GA009 - MODIFICATION KIT PROGRAM												
<p>a. A metrics program has been established for the LM 2500 engine to track service history for individual engine components and compile data regarding failure rates. The data is compiled for various ship classes and engine configurations. This metrics program clearly identifies where engineering efforts should be focused to improve component reliability and also indicates which modification kits should be procured. The modifications kits can either be installed at the depot level during engine overhauls or at the intermediate level aboard ship via IMA support teams. Following modification kit installations, engine reliability is tracked to measure the effectiveness of these kit installations. Return on investment calculations are employed to quantify program savings. The modification kits hold down the cost to overhaul the engine at the depot level as well as reduce programmatic life cycle costs.</p>												
<p>b. Failure to procure modification kits will prevent improvement to Mean Time Between Removal (MTBR) and will significantly increase life cycle costs including increasing the requirement for additional spare engine assets, increasing the cost to overhaul engines at the depot and negatively impacting the reliability of engines and fleet readiness. It should be noted that the total engine population in the fleet is increasing because of the DDG program, and the addition of the LCS program.</p>												
GA010 - GAS GENERATOR IN CONTAINER												
<p>a. The attainment of LM2500 spare single shank gas generator inventory level of 26 is considered the program's minimum requirement based upon the current total population of 356 engines along with the requirement to forward deploy some inventory assets to support the fleet overseas. This inventory level is based upon 25 years of experience with the LM2500 Engine and ensures 90% probability for spare asset availability. 21 complete gas generator units have been procured</p>												

CLASSIFICATION: UNCLASSIFIED		
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE LM-2500 GAS TURBINE SUBHEAD NO. 81GA BLI: 0110	
<p>through FY 2008. One complete gas generator unit will be procured in FY 2010. In FY 2008, we bought a more powerful variant that will be the spare for the LCS (General Dynamics variant). In FY 2009 components that are needed to be replaced in the Fleet will be procured.</p> <p>GA012 - CONTROL SYSTEM MODIFICATIONS a. The engine control system consists of sensors, data acquisition units, processors and operator consoles. Peripheral devices include bell and data loggers, printers, tape readers, mass storage devices and tape recorders. These end items are comprised of printer circuit boards, meters, monitor screens, switches and power supplies. Inventory objectives not required. Unit costs vary per modification kit. Obsolescence is increasingly being an item that needs to be managed.</p> <p>GA014 - SPECIAL SUPPORT EQUIPMENT, SSE a. Procurement of Special Support Equipment allows for increased depot repair capability, thereby stabilizing or reducing the cost to overhaul engines at the depot. This tooling is generally associated with depot modifications being made to the engine to increase engine reliability. This increased capability reduces engine overhaul costs.</p> <p>GA015 - DIGITAL FUEL CONTROL (DFC) a. Three shipsets were procured in FY 08. Funding will procure six DDG-51/CG-47 shipsets in FY 09 to replace existing on engine fuel controls with off engine digital fuel controls. This addresses an obsolescence, maintainability, and reliability issue. Three shipsets will be procured in FY 2010.</p> <p>GA830 - PRODUCTION ENGINEERING a. The review and approval of any production contract technical documentation, or the separate development of this documentation to include Technical Manuals, Signal Flow Diagrams, PMS, Level III production drawings, provisioning technical documentation (PTD), program support data (PSD), allowance parts lists (APL's) and engineering in support of final design reviews.</p> <p>GACA1 - PROPULSION SYSTEM INSPECTION EQUIPMENT (FY08 CONGRESSIONAL ADD) a. Provides for the purchase of new inspection systems and the development of inspection criteria that will aid the Navy with inspection and maintenance on many different propulsion systems in the fleet.</p> <p>**NOTE: The Gas Generator (GA010) program will be procuring a gas generator in the even years and gas generator components in the odd years.**</p>		

CLASSIFICATION:			UNCLASSIFIED									
EXHIBIT P-5 COST ANALYSIS				Weapon System						DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code A		P-1 LINE ITEM NOMENCLATURE LM-2500 GAS TURBINE SUBHEAD NO. 81GA						
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
	<u>EQUIPMENT</u>											
GA009	MODIFICATION PROGRAM	A	24.041	0	0.000	0.051	0	0.000	0.539	0	0.000	0.358
GA010	GAS GENERATOR	A	24.498	1	3.299	3.299	1	0.200	0.200	1	3.556	3.556
GA012	ENGINEERING SYSTEM MOD	A	11.925	0	0.000	0.215	0	0.000	0.450	0	0.000	0.400
GA014	SPECIAL SUPPORT EQUIPMENT	A	1.503	0	0.000	0.050	0	0.000	0.080	0	0.000	0.050
GA015	<u>LM2500 GAS TURBINE</u>											
	DIGITAL FUEL CONTROL	A	9.720	3	0.990	2.970	6	1.100	6.600	3	1.200	3.600
GA830	PRODUCTION ENGINEERING	A	3.313	0	0.000	0.040	0	0.000	0.080	0	0.000	0.050
GACA1	PROPULSION SYSTEM INSPECTION EQUIPMENT		0.000	0	0.000	1.500	0	0.000	0.000	0	0.000	0.000
	TOTAL EQUIPMENT		75.000			8.125			7.949			8.014
TOTAL			75.000			8.125			7.949			8.014

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE LM-2500 GAS TURBINE BLI: 0110				SUBHEAD 81GA	
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										
GA010 GAS GENERATOR	1	3.299	NSWC PHILA, PA		WR	GE CINCINNATI, OHIO	MAR-08	JAN-09	YES	
GA015 LM2500 GAS TURBINE DIGITAL FUEL CONTROL	3	0.990	NSWC PHILA, PA		WR	GE CINCINNATI, OHIO	MAR-08	JAN-09	YES	
FY 2009										
GA010 GAS GENERATOR	1	0.200	NSWC PHILA, PA		WR	GE CINCINNATI, OHIO	MAR-09	JAN-10	YES	
GA015 LM2500 GAS TURBINE DIGITAL FUEL CONTROL	6	1.100	NSWC PHILA, PA		WR	GE CINCINNATI, OHIO	MAR-09	JAN-10	YES	
FY 2010										
GA010 GAS GENERATOR	1	3.556	NSWC PHILA, PA		WR	GE CINCINNATI, OHIO	MAR-10	JAN-11	YES	
GA015 LM2500 GAS TURBINE DIGITAL FUEL CONTROL	3	1.200	NSWC PHILA, PA		WR	GE CINCINNATI, OHIO	MAR-10	JAN-11	YES	

CLASSIFICATION:		UNCLASSIFIED										
Exhibit P-40, BUDGET ITEM JUSTIFICATION										DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						P-1 LINE ITEM NOMENCLATURE ALLISON 501K GAS TURBINE SUBHEAD NO. 81GF BLI: 0120						
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)	135.0	A		9.4	9.4	9.2						
SPARES COST (In Millions)	0.0	0		0.0	0.0	0.0						
PROGRAM DESCRIPTION/JUSTIFICATION:												
<p>The 501-K Series Gas Turbines are used to drive electrical generators in Ship Service Gas Turbine Generators (SSGTG). The 501-K17 is used on the CG-47 Class ships. The 501-K34 is an upgraded version used on the DDG-51 Class ships and is not interchangeable with the 501-K17.</p> <p>GF001 - STOCK ROTATING SPARES The Stock Rotating Spares Program provides an engine as a single assembly for the replacement of an engine requiring depot repair. Spare engine components for the Littoral Combat Ship (LCS) program which will utilize the MT-30 will be procured.</p> <p>GF007 - MODIFICATION PROGRAM Allison 501-K Gas Turbines are identified as the number one fleet issue by the Top Management Attention/Top Management Issues (TMA/TMI) Program, the Combatant Technical Issues Conference (CTIC), and the DDG-51 Top Tech Issue Program. Procurement of improved hardware for installation in the 501-K gas turbine is essential to increase engine reliability, Mean Time Between Removal (MTBR) and maintainability. Analysis of 501-K engineering performance data, TMA/TMI, metrics, the DDG-51 Top Tech Issues, CTIC and the component improvement program has identified necessary improvements to correct 501-K deficiencies. The modifications will reduce failure rates of system components, improving 501-K and SSGTG readiness and address the Fleet's top maintenance and reliability issues. The specific additional issues addressed are intake systems, with a new type air filtration system that will reduce maintenance and increase engine life and a replacement starter clutch.</p> <p>GF009 - SPECIAL SUPPORT EQUIPMENT (SSE) Procurement of Gas Turbine SSE is required to provide increased Ship Intermediate Maintenance Activity (SIMA) and depot repair capability to support the CG-47, DDG-51 and LCS class ships. Regional Maintenance Center (RMC) capability is enhanced by providing them SSE necessary to reduce engine change-outs and required to incorporate new modifications that will eliminate deficiencies identified through the TMA/TMI, metrics and the DDG-51 Top Tech Issues Programs and enhance MTBR, reliability and maintainability. Procured SSE supports the depot by increasing repair capability and allowing installation of new modifications that will eliminate deficiencies identified through the TMA/TMI, metrics and the DDG-51 top Tech Issues Programs and enhance MTBR, reliability and maintainability.</p>												

CLASSIFICATION:		UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)			DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1		P-1 LINE ITEM NOMENCLATURE ALLISON 501K GAS TURBINE SUBHEAD NO. 81GF BLI: 0120	
<p>GF015 - FULL AUTHORITY DIGITAL CONTROL (FADC) Funding will be used to procure and install the replacement for the Local Operating Panel with the FADC, which will upgrade reliability and maintainability of the control system. These will be installed on both the DDG-51 and CG-47 class ships. Three FADC's are required on each ship. Procurements will complete in FY09.</p> <p>GF016 - ELECTRIC STARTER Gas Turbines today are started with pneumatic (air) starters. These are maintenance intensive and complex. In FY08, we will start to backfit the fleet with electric starters.</p> <p>GF017 - OPTICAL FLASH DETECTOR This sensor will sense and record if the engine has a irregular start and therefore will notify the operator that maintenance is required. By utilizing this new technology, adjustments will be made to the engine, increasing its life.</p> <p>GF018 -HOT SECTION REPLACEMENT The current hot section (blades, and blade track) will benefit greatly by utilizing different coatings and a metal, vs. ceramic blade track. Several types have been evaluated and procurement includes 10 sets in FY09 and 25 sets in FY10.</p> <p>GF830 - PRODUCTION ENGINEERING The review and approval of any production contract technical documentation or the separate development of this documentation to include: Technical manuals, signal flow diagrams, PMS, production drawings, Provisioning Technical Documentation (PTD), and Allowance Parts Lists (APLs) and engineering in support of final design reviews.</p>			

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS				Weapon System							DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code A		P-1 LINE ITEM NOMENCLATURE ALLISON 501K GAS TURBINE SUBHEAD NO. 81GF						
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
	<u>EQUIPMENT</u>											
GF001	501-K34	A	17.053	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
GF001	250-KS4	A	1.785	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
GF001	MT-30		0.000	0	0.000	0.000	0	0.000	2.472	0	0.000	0.000
GF007	MODIFICATION PROGRAM	A	77.783	0	0.000	3.469	0	0.000	2.225	0	0.000	2.802
GF009	SPECIAL SUPPORT EQUIPMENT (SSE)	A	3.831	0	0.000	0.201	0	0.000	0.300	0	0.000	0.310
GF015	FULL AUTHORITY DIGITAL CONTROL	A	28.078	10	0.400	4.000	4	0.400	1.600	0	0.000	0.000
GF016	ELECTRIC STARTER	A	1.110	2	0.285	0.570	2	0.290	0.580	2	0.295	0.590
GF017	OPTICAL FLASH DETECTION SYS	A	2.400	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
GF018	501K-34 HOT SECTION REPLACEMENT	A	1.000	5	0.200	1.000	10	0.200	2.000	25	0.210	5.250
GF830	PRODUCTION ENGINEERING	A	1.925	0	0.000	0.150	0	0.000	0.200	0	0.000	0.210
	TOTAL EQUIPMENT		134.965			9.390			9.377			9.162
TOTAL			134.965			9.390			9.377			9.162

CLASSIFICATION:		UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE ALLISON 501K GAS TURBINE BLIN: 0120				SUBHEAD 81GF		
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											
GF015 FULL AUTHORITY DIGITAL CONTROL	10	0.400	NSWC, PHILA		WR	ROLLS ROYCE ALLISON	MAR-08	SEP-08	YES		
GF016 ELECTRIC STARTER	2	0.285	NSWC, PHILA		WR	HAMILTON SUNSTRAND	MAR-08	SEP-08	YES		
GF018 501K-34 HOT SECTION REPLACEMENT	5	0.200	NSWC, PHILA		WR	ROLLS ROYCE ALLISON	MAR-08	SEP-08	YES		
FY 2009											
GF015 FULL AUTHORITY DIGITAL CONTROL	4	0.400	NSWC, PHILA		WR	ROLLS ROYCE ALLISON	MAR-09	SEP-09	YES		
GF016 ELECTRIC STARTER	2	0.290	NSWC, PHILA		WR	HAMILTON SUNSTRAND	MAR-09	SEP-09	YES		
GF018 501K-34 HOT SECTION REPLACEMENT	10	0.200	NSWC, PHILA		WR	ROLLS ROYCE ALLISON	MAR-09	SEP-09	YES		
FY 2010											
GF016 ELECTRIC STARTER	2	0.295	NSWC, PHILA		WR	HAMILTON SUNSTRAND	MAR-10	SEP-10	YES		
GF018 501K-34 HOT SECTION REPLACEMENT	25	0.210	NSWC, PHILA		WR	ROLLS ROYCE ALLISON	MAR-10	SEP-10	YES		

CLASSIFICATION:		UNCLASSIFIED										
Exhibit P-40, BUDGET ITEM JUSTIFICATION										DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						P-1 LINE ITEM NOMENCLATURE OTHER PROPULSION EQUIPMENT SUBHEAD NO. 81GG BLI: 0180						
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)	0.0			0.0	21.2	0.0						
SPARES COST (In Millions)	0.0	0		0.0	0.0	0.0						
PROGRAM DESCRIPTION/JUSTIFICATION:												
The Other Propulsion Equipment program will procure upgrades to salvageable components from preserved Main Reduction Gears (MRG) for current configuration requirements. MRGs convert high speed, low torque output of the turbine engines to low speed, high torque output suitable to drive the propulsion shafts and support systems and equipment.												
GG001 - MAIN REDUCTION GEAR (MRG) COMPONENT UPGRADES												
Procure upgrades to MRG Components for DDG51 Class Ships.												
GGCA1 - LSD 41/49 DIESEL ENGINE LOW LEVEL LOAD UPGRADE KIT (FY09 CONGRESSIONAL ADD)												
The Ship Service Diesel generator (SSDG) Low load kits for the LSD 41 class consisting of a programmable logic controller for blower bypass and jacket cooling water control in each auxiliary machinery room.												
GGCA2 - CONDITION-BASED INSPECTION TECHNOLOGIES FOR PROPULSION EQUIPMENT (FY09 CONGRESSIONAL ADD)												
Procure Borescope systems / kits from General Electric Inspection Technologies, for Steam, Gas Turbine, and Diesel propulsion systems. These borescope inspection equipment are for use on Naval vessels. The video borescope inspection kit to be purchased will reside at Regional Maintenance Centers (RMCs). The RMCs will use these systems to inspect ship propulsion systems that are pier side or at sea.												

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS				Weapon System						DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code		P-1 LINE ITEM NOMENCLATURE OTHER PROPULSION EQUIPMENT SUBHEAD NO. 81GG						
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
	<u>EQUIPMENT</u>											
	<u>EXPEDITIONARY WARFARE</u>											
GGCA1	LSD-41/49 DIESEL ENGINE LOW LOAD UPGRADE KIT		0.000	0	0.000	0.000	0	0.000	1.595	0	0.000	0.000
	EXPEDITIONARY WARFARE Subtotal		0.000			0.000			1.595			0.000
	<u>SURFACE WARFARE</u>											
GG001	MAIN REDUCTION GEAR (MRG) COMPONENT UPGRADES		0.000	0	0.000	0.000	0	0.000	18.844	0	0.000	0.000
GGCA2	CONDITION-BASED INSPECTION TECHNOLOGIES		0.000	0	0.000	0.000	0	0.000	0.798	0	0.000	0.000
	SURFACE WARFARE Subtotal		0.000			0.000			19.642			0.000
	TOTAL EQUIPMENT		0.000			0.000			21.237			0.000
TOTAL			0.000			0.000			21.237			0.000

CLASSIFICATION:		UNCLASSIFIED										
Exhibit P-40, BUDGET ITEM JUSTIFICATION										DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						P-1 LINE ITEM NOMENCLATURE OTHER NAVIGATION EQUIPMENT SUBHEAD NO. A1GW BLI: 0670						
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)	101.3			30.5	44.6	34.7						
SPARES COST (In Millions)	1.4			0.0	0.1	0.1						
PROGRAM DESCRIPTION/JUSTIFICATION: This program provides procurement and improvements of navigation equipment such as gyrocompasses, inertial navigators, speed sensors, radars, Electronic Chart Display and Information System - Navy (ECDIS-N) and major components for other navigation systems. ECDIS-N provides Fleet-wide electronic charting capability, increases navigation and situational awareness, improves safety at sea, and eliminates reliance on paper charts.												
GW006: MAJOR COMPONENTS: Procurement of major components such as Inertial Measuring Units (IMUs), gyroscopes, accelerometers, and depot test equipment. These components are essential to the operation and performance of AN/WSN-2/5 inertial navigation systems. Procurements associated with these components ensure the operational availability and performance of the navigation systems to support ship and combat system mission requirements. Units procured support the pipeline requirements of AN/WSN-2/5 inertial navigation systems given the Fleet population and usage rates. Procurements of components for AN/WSN-2/5 will continue during transition to AN/WSN-7 Ring Laser Gyro Navigator and AN/WSN-7B Ring Laser Gyrocompass. Depot test equipment funds support checkout and testing of these major components in a system configuration to verify performance prior to being dubbed "ready for issue".												
GW013: CONVENTIONAL NAVIGATION FIELD CHANGE KITS: These funds are required to procure Navigation Field Change Kits for reliability and maintainability improvements and corrections for various conventional navigation equipment including the Dead Reckoning Equipment (DRE), Computer Aided Dead Reckoning Tracer (CADRT), plotters, gyrocompasses, Electromagnetic Log (EM Log), Doppler Sonar Velocity Log (DSVL), Digital Flux Gate Magnetic Compass, Digital Depth Detector and Synchro Signal Amplifier. These improvements are required to keep Fleet-installed equipment operating to a basic level.												
GW029: INERTIAL NAVIGATION SYSTEMS FIELD CHANGE KITS: These funds are required in order to support procurement and implementation of Engineering Change Proposals (ECPs)/ Field Change (FC) Kits, alterations and update of associated technical documentation which provide reliability and maintainability improvements, corrections and upgrades for various Inertial Navigation Systems (INS), (AN/WSN-7/7A/7B), the associated IP-1747 (Control Display Unit-CDU), and IP-1747 (Enhanced Control Display Unit-ECDU) and Aircraft Inertial Alignment System Equipment (AIAS) and (CVNS-AN/SRC-40, OU-174, TS-3543A). Funds also support procurement of hardware and software changes to the navigation suite required to integrate with Ring Laser Gyro Navigator (AN/WSN-7/7A), and Ring Laser Gyrocompass (AN/WSN-7B) and Test & Integration. Funds will												

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE OTHER NAVIGATION EQUIPMENT SUBHEAD NO. A1GW BLI: 0670	
<p>support technology refresh to replace parts obsolescence and keep pace with technology. Funds required to perform navigation certification required as prerequisite to TOMAHAWK certification.</p> <ul style="list-style-type: none"> - Field Change #1 to the AN/WSN-777A provides product improvement changes and additions to the basic system equipment to correct problems and provide enhancements to ship specific missions. - Field Change #2 to the AN/WSN-7 provides interface between WSN-7 and Battle Force Tactical Trainer (BFTT) product improvement changes and additions to the basic system equipment to correct problems and provide enhancements to ship specific missions. - Field Change #3 to the AN/WSN-7 provides hardware and software updates. - Field Change #4 to the AN/WSN-7 provides firmware changes to correct interfaces with Cooperative Engagement Capability (CEC) and Command & Decision (C&D) and provides short-term accuracy improvements for Ticonderoga Class Guided Missile Cruiser (AEGIS) and Ballistic Defense Missile System (BDMS). Field Change #4 to the AN/WSN-7A provides Enhanced Control Display Unit (ECDU) hardware and software to correct Integral of Velocity rollover problem and provide an interface to the AN/BYG-1 CCS. - Field Change #5 to the AN/WSN-777A provides firmware changes to add capability for inertial damping and for indexing control to improve navigation accuracy for combat systems. Also provides functionality to support AN/BYG-1 CCS. - Aircraft Inertial Alignment System (AIAS) product improvements to AN/SRC-40, OU-174, TS-3543A due to obsolescence. - Other AN/WSN-7 operational improvements include Navigation Sensor System Interface (NAVSSI) integration, Lever Arm definition, vertical deflection compensation, Asynchronous Transfer Mode (ATM) implementation, Tactical Integrated Distribution System (TIDS) integration, and WSN-7A BYG-1 CCS Field Change Kits. <p>GW032: DOPPLER SONAR VELOCITY LOG: Procurement of Doppler Sonar Velocity Log (DSVL) systems for backfit on submarine and surface platforms to replace the legacy Underwater Log System used to determine speed through the water and provided a higher accuracy of ships speed.</p> <p>GW035: NAVIGATION SYSTEM PROCUREMENT - (AN/WSN-777A): These funds are required to support the acquisition, implementation and certification of the AN/WSN-777A Ring Laser Gyro Navigator (RLGN), including hardware required for SSN Engineering Rough Overhaul (ERO) Restoration Modernization. System peripherals include: CDUs, ECDUs, Synchronization Amplifiers (Sync Amps), Built in Test (BIT) Cables, Readiness Based Spares, and Installation kits.</p> <p>GW036: NAVIGATION SYSTEM PROCUREMENT - (AN/WSN-7B): These funds are required to support the acquisition, implementation and certification of the AN/WSN-7B Ring Laser Gyrocompass (RLG), including hardware required for SSN ERO Restoration Modernization. System peripherals include: CDUs, ECDUs, Sync Amps, BIT Cables and Installation kits. Marine Countermeasures (MCM) ships require quantity (2) AN/WSN-7B per ship.</p> <p>GW038: BPS ECDIS-N/VMS FC KITS: These funds are required to provide BPS - Voyage Management System (VMS) Field Changes to provide ECDIS-N capability and to support obsolescence replacement.</p> <p>GW039: BPS ECDIS-N/VMS SOFTWARE UPGRADES: Software upgrades to support the BPS-15/16 VMS systems on submarines to full ECDIS-N capability.</p>		

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE OTHER NAVIGATION EQUIPMENT SUBHEAD NO. A1GW BLI: 0670	
<p>GW050: SCALABLE ECDIS-N: These funds are required for procurement of Scalable ECDIS-N systems for surface combatants, amphibious ships, and carriers.</p> <p>GW051: SCALABLE ECDIS-N ECP/FIELD CHANGE KITS: These funds are required for the procurement and installation of ECDIS-N ECP/Field Change Kits to support obsolescence replacement and for engineering services associated with interfacing systems on multiple platforms.</p> <p>GW052: ENHANCED INERTIAL NAVIGATION PERFORMANCE PROGRAM: These funds are required for the procurement of field change kits to enhance inertial navigation system performance.</p> <p>GW830: PRODUCTION ENGINEERING: These funds are required for production engineering for the AN/WSN-7/7A, AN/WSN-7B, CDU (Control Display Unit), ECDU (Enhanced Control Display Unit), and AIAS hardware/software procurements and system test and integration, Doppler Sonar Velocity Log, Amphibious Integrated Bridge Systems, Scalable ECDIS-N Systems, and BPS ECDIS-N/VMS Systems.</p> <p>GWINS: INSTALLATION: These funds are required to install the following Navigation System Procurements onboard surface combatants, submarine platforms, and aircraft carriers: AN/WSN-7/7A and AN/WSN-7B, DSVL, Amphibious Integrated Bridge, Scalable ECDIS-N, BPS ECDIS-N/VMS, and associated system peripherals.</p> <p>GWCA1: AMPHIB INTEGRATED BRIDGE SYSTEM: FY06 and FY07 Congressional plus up for accelerated procurement of Integrated Bridge Systems to provide ECDIS-N capability for Amphibious platforms.</p> <p>GWCA2: AN/WSN-7 FIBER OPTIC GYRO UPGRADES: FY08 and FY09 Congressional Plus Up funds for the early implementation of a Fiber Optic Gyro Field Change upgrade to the WSN-7 Inertial Measuring Unit.</p>		

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS						Weapon System				DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						ID Code	P-1 LINE ITEM NOMENCLATURE OTHER NAVIGATION EQUIPMENT SUBHEAD NO. A1GW					
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
	<u>EQUIPMENT</u> <u>SURFACE WARFARE</u>											
GW006	AN/WSN-2/5 MAINT COMPONENTS		1.165	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
GW013	CONVENTIONAL NAVIGATION FC KITS		2.121	0	0.000	0.147	0	0.000	0.400	0	0.000	0.506
GW029	INERTIAL NAV SYS ECP/FC KITS		1.211	0	0.000	0.475	0	0.000	1.406	0	0.000	1.999
GW035	<u>RING LASER GYRO NAVIGATION</u> AN/WSN-7A PERIPHERALS		0.780	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
GW036	<u>RING LASER GYRO NAVIGATION</u> AN/WSN-7B PERIPHERALS		0.000	0	0.000	0.090	0	0.000	0.147	0	0.000	1.690
	RING LASER GYROCOMPASS (AN/WSN-7B)		17.700	8	0.400	3.200	14	0.296	4.150	6	0.405	2.430
GW050	SCALABLE ECDIS-N		3.252	14	0.239	3.346	12	0.187	2.248	6	0.249	1.494
GW051	SCALABLE ECDIS-N ECP/FC KITS		1.841	0	0.000	1.801	0	0.000	1.043	0	0.000	0.516
GW830	PRODUCTION ENGINEERING		2.901	0	0.000	0.866	0	0.000	0.847	0	0.000	0.891
GWCA1	AMPHIB INTEGRATED BRIDGE SYSTEM		4.500	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
GWCA2	<u>RING LASER GYRO NAVIGATION</u> AN/WSN-7 FIBER OPTIC GYRO UPGRADES		0.000	0	0.000	2.400	0	0.000	3.000	0	0.000	0.000
	SURFACE WARFARE Subtotal		35.471			12.325			13.241			9.526

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)				Weapon System							DATE	
APPROPRIATION/BUDGET ACTIVITY				ID Code		P-1 LINE ITEM NOMENCLATURE						
OTHER PROCUREMENT, NAVY/BA 1						OTHER NAVIGATION EQUIPMENT						
						SUBHEAD NO. A1GW						
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
	<u>SUBMARINE WARFARE</u>											
GW006	AN/WSN-2 MAINT COMPONENTS		1.207	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
GW013	CONVENTIONAL NAVIGATION FC KITS		1.398	0	0.000	2.040	0	0.000	1.994	0	0.000	3.214
GW029	INERTIAL NAV SYS ECP/FC KITS		5.918	0	0.000	2.904	0	0.000	3.095	0	0.000	4.167
GW032	DOPPLER SONAR VELOCITY LOG		2.152	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
GW035	<u>RING LASER GYRO NAVIGATION</u>											
	AN/WSN-7A		2.370	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	AN/WSN-7A PERIPHERALS		5.068	0	0.000	1.350	0	0.000	0.000	0	0.000	0.000
GW036	<u>RING LASER GYRO NAVIGATION</u>											
	AN/WSN-7B		1.160	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
GW038	BPS ECDIS-N/VMS FC KITS		16.120	0	0.000	2.769	0	0.000	2.754	0	0.000	3.540
GW039	BPS ECDIS-N/VMS SOFTWARE UPGRADE		1.356	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
GW052	ENHANCED INERTIAL NAV PERFORMANCE		2.118	0	0.000	2.500	0	0.000	1.511	0	0.000	1.300
GW830	PRODUCTION ENGINEERING		1.659		0.000	0.393	0	0.000	0.407	0	0.000	0.780
	SUBMARINE WARFARE Subtotal		40.526			11.956			9.761			13.001
	<u>AIR WARFARE</u>											

CLASSIFICATION:		UNCLASSIFIED											
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)						Weapon System				DATE May 2009			
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						ID Code		P-1 LINE ITEM NOMENCLATURE OTHER NAVIGATION EQUIPMENT SUBHEAD NO. A1GW					
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	
GW029	CVNS/WSN-7 ECP/FC KITS		4.123	0	0.000	1.757	0	0.000	1.917	0	0.000	1.815	
GW050	SCALABLE ECDIS-N		0.000	1	0.685	0.685	9	0.700	6.300	0	0.000	0.000	
GW051	SCALABLE ECDIS-N ECP/FC KITS		0.000	0	0.000	0.225	0	0.000	4.234	0	0.000	0.365	
GW830	PRODUCTION ENGINEERING		0.538	0	0.000	0.157	0	0.000	0.333	0	0.000	0.200	
	AIR WARFARE Subtotal		4.661			2.824			12.784			2.380	
	TOTAL EQUIPMENT		80.658			27.105			35.786			24.907	
	<u>INSTALLATION</u>												
GWINS	INSTALL OF EQUIPMENT SURFACE WARFARE		8.936	0	0.000	2.335	0	0.000	5.466	0	0.000	7.230	
GWINS	INSTALL OF EQUIPMENT SUBMARINE WARFARE		11.680	0	0.000	1.010	0	0.000	0.223	0	0.000	0.000	
GWINS	INSTALL OF EQUIPMENT AIR WARFARE		0.000	0	0.000	0.000	0	0.000	3.116	0	0.000	2.606	
	TOTAL INSTALLATION		20.616			3.345			8.805			9.836	
TOTAL			101.274			30.450			44.591			34.743	

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE OTHER NAVIGATION EQUIPMENT BLIN: 0670				SUBHEAD A1GW	
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										
GW036 RING LASER GYRO NAVIGATION										
RING LASER GYROCOMPASS (AN/WSN-7B)	8	0.400	NAVSEA WNY WASH DC	DEC-07	SS FFP	SPERRY MARINE CHARLOTTE SV	DEC-07	JAN-09	YES	
GW050										
SCALABLE ECDIS-N	14	0.239	NAVSEA PHILA PA	OCT-05	SS FFP	SPERRY MARINE CHARLOTTE SV	JAN-08	JUL-08	YES	
SCALABLE ECDIS-N	1	0.685	NAVSEA PHILA PA	OCT-05	SS FFP	SPERRY MARINE CHARLOTTE SV	JAN-08	JUL-08	YES	
FY 2009										
GW036 RING LASER GYRO NAVIGATION										
RING LASER GYROCOMPASS (AN/WSN-7B)	14	0.296	NAVSEA WNY WASH DC	SEP-08	SS FFP	SPERRY MARINE CHARLOTTE SV	DEC-09	DEC-10	YES	
GW050										
SCALABLE ECDIS-N	12	0.187	NAVSEA PHILA PA	OCT-06	SS FFP	SPERRY MARINE CHARLOTTE SV	MAY-09	NOV-09	YES	
SCALABLE ECDIS-N	9	0.700	NAVSEA PHILA PA	OCT-06	SS FFP	SPERRY MARINE CHARLOTTE SV	MAY-09	NOV-09	YES	
FY 2010										
GW036 RING LASER GYRO NAVIGATION										
RING LASER GYROCOMPASS (AN/WSN-7B)	6	0.405	NAVSEA WNY WASH DC	SEP-09	SS FFP	SPERRY MARINE CHARLOTTE SV	JAN-10	JAN-11	YES	
GW050										
SCALABLE ECDIS-N	6	0.249	NAVSEA PHILA PA	OCT-07	SS FFP	SPERRY MARINE CHARLOTTE SV	MAY-10	NOV-10	YES	

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED GW036 RING LASER GYRO NAVIGATION RING LASER GYROCOMPASS (AN/WSN-7B)	TYPE MODIFICATION: AN/WSN-7B	MODIFICATION TITLE: OTHER NAVIGATION EQUIPMENT
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DESCRIPTION/JUSTIFICATION:
 These funds are required to support the acquisition, implementation and certification of the AN/WSN-7B Ring Laser Gyrocompass (RLG), including hardware required for SSN ERO Restoration Modernization. System peripherals include: CDUs, ECDUs, Sync Amps, BIT Cables and Installation kits. MCM ships require quantity (2) AN/WSN-7B per ship.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT	54	17.7	8	3.2	14	4.2	6	2.4									82	27.5	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER (EQUIPMENT)																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST	54	19.1			8	1.9	12	3.3									74	24.3	
<u>TOTAL PROCUREMENT</u>		36.8		3.2		6.1		5.7										51.8	

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED GW038 BPS ECDIS-N/VMS FC KITS	TYPE MODIFICATION: BPS ECDIS-N/VMS	MODIFICATION TITLE: OTHER NAVIGATION EQUIPMENT
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DESCRIPTION/JUSTIFICATION:
 These funds are required to provide BPS - Voyage Management System (VMS) Field Changes to provide ECDIS-N capability and to support obsolescence replacement.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FULL RATE PRODUCTION

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		
<u>PROCUREMENT</u>																		
MODIFICATION KITS		16.1		2.8		2.8		3.5										25.2
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT																		
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER (FIELD CHANGE KITS)																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST	3	1.0	1	1.0													4	2.0
<u>TOTAL PROCUREMENT</u>		17.1		3.8		2.8		3.5										27.2

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED BPS ECDIS-N/VMS FC KITS	MODIFICATION TITLE: OTHER NAVIGATION EQUIPMENT
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEAD-TIME: 1 Months PRODUCTION LEAD-TIME: 18 Months

CONTRACT DATES:		FY 2008:		FY 2009:		FY 2010:	
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DELIVERY DATES:		FY 2008:		FY 2009:		FY 2010:	
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(\$ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$											Qty	\$
PRIOR YEARS	3	1.0	1	1.0															4	2.0
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	3	0	1	0	0	0	0	0	0	0	0	0	0											4
Out	3	0	1	0	0	0	0	0	0	0	0	0	0											4

Remarks:

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED GW050 SCALABLE ECDIS-N	TYPE MODIFICATION: SCALABLE ECDIS-N	MODIFICATION TITLE: OTHER NAVIGATION EQUIPMENT
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DESCRIPTION/JUSTIFICATION:
These funds are required for procurement of Scalable ECDIS-N systems for surface combatants, amphibious ships, and carriers.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FULL RATE PRODUCTION

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		
<u>PROCUREMENT</u>																		
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT	14	3.3	15	4.0	21	8.5	6	1.5									56	17.3
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST	11	3.1	8	2.3	15	6.6	17	6.5									51	18.5
<u>TOTAL PROCUREMENT</u>		6.4		6.3		15.1		8.0										35.8

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: SCALABLE ECDIS-N MODIFICATION TITLE: OTHER NAVIGATION EQUIPMENT

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEAD-TIME: 2 Months PRODUCTION LEAD-TIME: 6-8 Months

CONTRACT DATES: FY 2008: JAN-08 FY 2009: MAY-09 FY 2010: MAY-10

DELIVERY DATES: FY 2008: JUL-08 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	\$
PRIOR YEARS	11	3.1	3	0.9																					14	4.0
FY 2008 EQUIPMENT			5	1.4	10	3.5																			15	4.9
FY 2009 EQUIPMENT					5	3.1	17	6.5																	22	9.6
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	11	4	3	1	0	4	5	3	3	3	4	6	4																		51
Out	11	4	3	1	0	4	5	3	3	3	4	6	4																		51

Remarks:

CLASSIFICATION:		UNCLASSIFIED										
Exhibit P-40, BUDGET ITEM JUSTIFICATION										DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						P-1 LINE ITEM NOMENCLATURE SUB PERISCOPES & IMAGING EQUIP SUBHEAD NO. H1PL BLI: 0831						
Program Element for Code B Items 0204281N						Other Related Program Elements						
	Prior Years	ID Code		FY 2008	FY 2009	FY 2010						
Quantity	25			4	14	16						
COST (In Millions)	164.4	A		47.8	67.2	75.1						
SPARES COST (In Millions)	7.0	0		2.1	2.9	2.6						
PROGRAM DESCRIPTION/JUSTIFICATION: <p>The Submarine Periscopes and Imaging Equipment Program procures the Type 18 and Type 8 periscopes, Photonics Mast Variant (PMV), improved imaging capabilities incorporated in the Integrated Submarine Imaging System (ISIS), and VIRGINIA Class imaging upgrades. Commander Naval Submarine Force (CNSF), Operations Review Group (ORG) selected the Patriot Type 18 Periscope Rangefinder and the Night Owl Type 8 Infra-Red (IR) Periscope as high priority tactical control technologies to field. By OPNAV Ltr Ser. N77/3U629209, 12 June 2003, OPNAV N87 established the ISIS to rapidly field these systems and integrate existing periscope imagery systems into a single system for installation on board submarines. The ISIS baseline includes the Type 18 Periscope Patriot Automated Range Finder, the Type 8 IR Periscope, and the common control and display. ISIS supports high intensity operations in the littorals, providing the submarine force with the tactical imaging systems necessary to safely and effectively employ its surveillance and weapons capabilities. The Infra-Red (IR) imaging capability improves imaging in low visibility conditions. The Patriot Automated Range Finder provides a 360 degree search independent of the visual search, enhanced situational awareness and provides a collision avoidance capability. Tactical imagery Technology Insertion includes the common control and displays hardware and software on all platforms regardless of imaging sensors, an integrated imaging system that provides for remote periscope operation, operator alerts, imaging enhancement tools and contact analysis tools, and a fully Submarine Warfare Federated Tactical Systems (SWFTS) integrated system providing "any display anywhere". By OPNAV Ltr Ser. N77/5U936008, 15 Feb 2005, OPNAV N87 provided direction to accelerate development of a Digital Periscope (DP) upgrade for SSN688 and SEAWOLF class platforms. ISIS Increment II procures the Digital Periscope (DP) beginning in FY 2008. The DP is a system reliability upgrade, and will concurrently provide digital imagery from outboard cameras. Funding improves submarine imaging capability in the areas of: ship safety, Intelligence, Surveillance and Reconnaissance (ISR), tactical control (contact management in the littorals) to provide high quality imaging 24 hours a day, 7 days a week in all weather conditions to support submarine operations worldwide.</p> <p>ISIS provides for the modernization of imaging systems to improve imaging capabilities for the submarine force in support of ISR requirements. This includes the integration of new capabilities into the Type 18 and Type 8 Periscopes for LOS ANGELES Class and SEAWOLF Class submarines, the Photonics Mast Variant (PMV) for SSGN, and Photonics Mast upgrades to the VIRGINIA Class AN/BVS-1 imaging systems. Estimates include competitive sourcing savings associated with consolidation of production support contracting efforts.</p>												

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE SUB PERISCOPES & IMAGING EQUIP SUBHEAD NO. H1PL BLI: 0831	
<p>PL011 Imaging Block Upgrade - Funding continues procurement of Periscopes and Imaging Equipment reliability and maintainability, obsolescence, and operational capability enhancement block upgrades (i.e.): Type 18 flex shaft, Planned Type 18 overhauls, Type 18 Submarine Imaging System (SUBIS) IA improvements, day-night drive mechanism, eyepiece-eyeguard, training handle improvement, digital rotary joint improvements, PMV camera replacement, periscope bearing upgrade, periscope fairing steady bearing, periscope fairing lower dashpot improvement, periscope fairing hoisting cylinder rod ceramic coating, periscope universal hull packing improvement, periscope hoist/yoke adaptor periscope cylinder dashpot (finger) guard and associated Integrated Logistics Support (ILS) and technical data. Variable quantities and types are bought in each fiscal year.</p> <p>PL012 Funds procure replacement Special Support Equipment (SSE) for each maintenance level to ensure systems are maintained in a state of operational readiness. Equipment includes Q-Band Test Equipment, Mast Dynamic Collimator, Eyebox/Mast Test Set, and Antenna/Outer Head Simulator required due to obsolescence and age of existing imaging systems SSE.</p> <p>PL015 Funding is for Interim Contract Support provided by the periscope manufacturer including photonics mast and periscope Depot repair, and Intermediate level repair of all types of legacy tactical submarine imaging systems.</p> <p>PL016 Funding is for imaging systems training requirements to include curriculum development, training materials, initial factory training pilot course conduct, Navy Training Plans, and instructor advisory services.</p> <p>PL022 Funding is for the procurement of SSN ISIS Imaging Systems. ISIS provides for the modernization of imaging systems to improve imaging capabilities for the submarine force in support of ISR requirements. This includes the integration of new capabilities into the Type 18 and Type 8 Periscopes, and a Photonics Mast Variant (PMV) for SSGN.</p> <p>PL023 Beginning in FY10, funds procure Photonics Mast upgrades to the VIRGINIA Class AN/BVS-1 imaging system including Integrated Submarine Imaging System, and Photonics Mast Workstation (PMW) technical insertion.</p> <p>PL024 Beginning in FY10, funds procure VIRGINIA Class Photonics Block III land based spares.</p> <p>PL830 Production Engineering funds provide the following functions: value engineering; review and evaluation of production design data and documentation; production configuration control; maintenance engineering efforts designed and incorporated into the production manufacturing process, and other related engineering functions that are integral to all of the Imaging Systems and ancillary components.</p>		

CLASSIFICATION:	UNCLASSIFIED		
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)			DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE SUB PERISCOPES & IMAGING EQUIP SUBHEAD NO. H1PL BLI: 0831		
<p>PL900 Imaging Systems engineering, technical and maintenance services funds provide the following functions: In-Service engineering and technical support to deployed Periscope and Imaging Equipment, imaging system installation and integration planning, SHIPALT and TEMPALT technical data preparation, production hardware design review, engineering/technical support for installations, training materials development, field engineering and technical problem resolution, block upgrade installation planning, configuration management, and maintenance planning including inventory, management, repair, and restoration scheduling.</p> <p>PL5IN Funding is for the installation of Fleet Modernization Program Equipment only.</p>			

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS				Weapon System						DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code A		P-1 LINE ITEM NOMENCLATURE SUB PERISCOPES & IMAGING EQUIP SUBHEAD NO. H1PL						
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
	<u>EQUIPMENT</u>											
PL011	IMAGING BLOCK UPGRADE	A	12.904	0	0.000	2.356	0	0.000	2.070	0	0.000	4.913
PL012	PERISCOPE SPECIAL SUPPORT EQUIPMENT	A	1.088	0	0.000	0.438	0	0.000	0.475	0	0.000	0.485
PL015	PERISCOPE INTERIM CONTRACTOR SUPPORT	A	5.659	0	0.000	0.766	0	0.000	0.930	0	0.000	10.391
PL016	PERISCOPE TRAINING	A	0.303	0	0.000	0.156	0	0.000	0.159	0	0.000	0.161
PL022	<u>INTEGRATED SUBMARINE IMAGING SYSTEM (ISIS)</u>											
	ISIS INCREMENT I CAPABILITY INSERTION	A	113.406	3	7.215	21.646	10	3.759	37.587	7	3.703	25.919
	ISIS INCREMENT I CAPABILITY INSERTION SPARES/CCM	A	5.238	0	0.000	0.000	3	3.132	9.396	2	3.170	6.339
	ISIS INCREMENT II DIGITAL PERISCOPE	A	0.000	1	6.001	6.001	1	6.136	6.136	1	5.100	5.100
PL023	<u>VIRGINIA CLASS IMAGING MODERNIZATION</u>											
	AN/BVS-1 ISIS	A	0.000	0	0.000	0.000	0	0.000	0.000	1	8.412	8.412
	TI - PHOTONICS MAST WS	A	4.090	0	0.000	0.000	0	0.000	0.000		0.000	0.234
	AN/BVS-1 MAST TECH INSERTION	A	0.000	0	0.000	0.000	0	0.000	0.000	2	0.606	1.212
	AN/BVS-1 MAST TECH INSERTION SPARES	A	0.000	0	0.000	0.000	0	0.000	0.000	3	0.606	1.818
	AN/BVS-1 ISIS PRODUCTION SUPPORT		0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.467
PL830	PERISCOPE PRODUCTION ENGINEERING	A	5.813	0	0.000	2.923	0	0.000	3.080	0	0.000	3.123
PL900	PERISCOPE CONSULTING SERVICES - CSS	A	1.066	0	0.000	0.530	0	0.000	0.543	0	0.000	0.551
	TOTAL EQUIPMENT		149.567			34.816			60.376			69.125

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)				Weapon System						DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code A		P-1 LINE ITEM NOMENCLATURE SUB PERISCOPES & IMAGING EQUIP SUBHEAD NO. H1PL						
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
PL5IN	INSTALLATION PERISCOPE FMP INSTALLATION	A	6.550	0	0.000	10.560	0	0.000	4.330	0	0.000	3.829
PL5IN	PERISCOPE FMP INSTALLATION - DSA	A	4.871	0	0.000	1.100	0	0.000	2.153	0	0.000	0.183
PL5IN	PERISCOPE FMP INSTALLATION - ORDALTS	A	3.387	0	0.000	1.346	0	0.000	0.320	0	0.000	1.990
	TOTAL INSTALLATION		14.808			13.006			6.803			6.002
	TOTAL		164.375			47.822			67.179			75.127
Comment: PL011 Imaging Block Upgrade is a non-quantified budget line item. Variable quantities and types are bought from a variety of vendors in each fiscal year.												

CLASSIFICATION:				UNCLASSIFIED							
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE SUB PERISCOPES & IMAGING EQUIP BLIN: 0831				SUBHEAD H1PL		
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											
PL022 INTEGRATED SUBMARINE IMAGING SYSTEM (ISIS)											
ISIS INCREMENT I CAPABILITY INSERTION	3	7.215	NAVSEA, WASH, DC	SEP-07	O/FP	KEO, NORTHAMPTON, MA	DEC-07	MAR-09	YES	TBD	
ISIS INCREMENT II DIGITAL PERISCOPE	1	6.001	NUWC NEWPORT	SEP-07	O/FP	MULTIPLE VENDORS	MAR-08	JUN-09	YES	TBD	
FY 2009											
PL022 INTEGRATED SUBMARINE IMAGING SYSTEM (ISIS)											
ISIS INCREMENT I CAPABILITY INSERTION	10	3.759	NAVSEA, WASH, DC	SEP-08	C/FP	TBD	MAY-09	AUG-10	YES	TBD	
ISIS INCREMENT I CAPABILITY INSERTION SPARES/CCM	3	3.132	NAVSEA, WASH, DC	SEP-08	C/FP	TBD	MAY-09	AUG-10	YES	TBD	
ISIS INCREMENT II DIGITAL PERISCOPE	1	6.136	NUWC NEWPORT	SEP-08	O/FP	MULTIPLE VENDORS	MAR-09	JUN-10	YES	TBD	
FY 2010											
PL022 INTEGRATED SUBMARINE IMAGING SYSTEM (ISIS)											
ISIS INCREMENT I CAPABILITY INSERTION	7	3.703	NAVSEA, WASH, DC	SEP-09	C/FP	TBD	MAR-10	JUN-11	YES	TBD	
ISIS INCREMENT I CAPABILITY INSERTION SPARES/CCM	2	3.170	NAVSEA, WASH, DC	SEP-09	C/FP	TBD	MAR-10	JUN-11	YES	TBD	
ISIS INCREMENT II DIGITAL PERISCOPE	1	5.100	NAVSEA, WASH, DC	SEP-09	C/FP	TBD	MAR-10	JUN-11	YES	TBD	
PL023 VIRGINIA CLASS IMAGING MODERNIZATION											
AN/BVS-1 ISIS	1	8.412	NAVSEA, WASH, DC	SEP-09	C/FP	TBD	MAR-10	JUN-11	YES	TBD	
AN/BVS-1 MAST TECH INSERTION	2	0.606	NAVSEA, WASH, DC	SEP-09	O/FP	KEO, NORTHAMPTON, MA	MAR-10	JUN-11	YES	TBD	
AN/BVS-1 MAST TECH INSERTION SPARES	3	0.606	NAVSEA, WASH, DC	SEP-09	O/FP	KEO, NORTHAMPTON, MA	MAR-10	JUN-11	YES	TBD	
Remarks: ISIS Contractor and Location is Kollmorgen Electro-Optical (KEO), Northampton, MA.											

CLASSIFICATION: UNCLASSIFIED **May 2009**

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED PL011 IMAGING BLOCK UPGRADE	TYPE MODIFICATION: ORDALTS	MODIFICATION TITLE: SUB PERISCOPES & IMAGING EQUIP
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DESCRIPTION/JUSTIFICATION:
Provides obsolescence related upgrades and technology refresh for the Submarine Periscopes.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$											
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			

<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT		12.9		2.4		2.1		4.9											22.3
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST	13	0.9	18	1.3	3	0.3	26	1.9										60	4.4
<u>TOTAL PROCUREMENT</u>		13.8		3.7		2.4		6.8											26.7

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED PL022 INTEGRATED SUBMARINE IMAGING SYSTEM (ISIS) ISIS INCREMENT I CAPABILITY INSERTION	TYPE MODIFICATION: SHIPALT	MODIFICATION TITLE: SUB PERISCOPES & IMAGING EQUIP
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DESCRIPTION/JUSTIFICATION:
Provides for the modernization of submarine imaging systems to improve imaging capabilities in support of Intelligence, Surveillance and Reconnaissance (ISR) requirements.

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	113.4	3	21.6	10	37.6	7	25.9											43	198.5
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
SPARES/CCM	1	5.2			3	9.4	2	7.4											6	22.0
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	6	10.8	11	11.7	9	4.8	6	3.3											32	30.6
<u>TOTAL PROCUREMENT</u>		129.4		33.3		51.8		36.6												251.1

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED PL022 INTEGRATED SUBMARINE IMAGING SYSTEM (ISIS) ISIS INCREMENT II DIGITAL PERISCOPE	TYPE MODIFICATION: SHIPALT	MODIFICATION TITLE: SUB PERISCOPES & IMAGING EQUIP
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DESCRIPTION/JUSTIFICATION:
ISIS Provides for the modernization of submarine imaging systems. ISIS Increment II procures the Digital Periscope (DP). The DP is a system reliability upgrade, and will provide digital imagery from outboard cameras.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT			1	6.0	1	6.1	1	5.1									3	17.2	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
SPARES/CCM																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST					1	1.7	1	0.2									2	1.9	
<u>TOTAL PROCUREMENT</u>				6.0		7.8		5.3										19.1	

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED PL023 VIRGINIA CLASS IMAGING MODERNIZATION AN/BVS-1 ISIS	TYPE MODIFICATION: SHIPALT	MODIFICATION TITLE: SUB PERISCOPES & IMAGING EQUIP
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DESCRIPTION/JUSTIFICATION:
 Provides for the modernization of submarine imaging systems to improve imaging capabilities in support of Intelligence, Surveillance and Reconnaissance (ISR) requirements.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT							1	8.4									1	8.4	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST																			
<u>TOTAL PROCUREMENT</u>								8.4										8.4	

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED PL023 VIRGINIA CLASS IMAGING MODERNIZATION AN/BVS-1 MAST TECH INSERTION	TYPE MODIFICATION: ORDALT	MODIFICATION TITLE: SUB PERISCOPES & IMAGING EQUIP
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DESCRIPTION/JUSTIFICATION:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		
<u>PROCUREMENT</u>																		
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT							2	1.2									2	1.2
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST																		
<u>TOTAL PROCUREMENT</u>								1.2										1.2

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED VIRGINIA CLASS IMAGING MODERNIZATION AN/BVS-1 MAST TECH INSERTION	MODIFICATION TITLE: SUB PERISCOPES & IMAGING EQUIP
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 15 Months

CONTRACT DATES:		FY 2008:		FY 2009:		FY 2010:	MAR-10
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DELIVERY DATES:		FY 2008:		FY 2009:		FY 2010:	JUN-11
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(\$ 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																					
FY 2008 EQUIPMENT																					
FY 2009 EQUIPMENT																					
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				FY 2011				FY 2012				FY 2013				FY 2014				TC	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	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	0	0

Remarks: Two masts per hull.

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED PL023 VIRGINIA CLASS IMAGING MODERNIZATION TI - PHOTONICS MAST WS	TYPE MODIFICATION: SHIPALT	MODIFICATION TITLE: SUB PERISCOPES & IMAGING EQUIP
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DESCRIPTION/JUSTIFICATION:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		
<u>PROCUREMENT</u>																		
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT	2	4.1					0.2										2	4.3
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST							2	0.5									2	0.5
<u>TOTAL PROCUREMENT</u>		4.1						0.7										4.8

CLASSIFICATION:		UNCLASSIFIED										
Exhibit P-40, BUDGET ITEM JUSTIFICATION										DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE DDG MOD SUBHEAD NO. 11DM BLI: 0900							
Program Element for Code B Items 0204228N					Other Related Program Elements							
	Prior Years	ID Code		FY 2008	FY 2009	FY 2010						Total
Quantity	0			0	0	2						2
COST (In Millions)	35.0			52.7	165.0	142.3						395.0
SPARES COST (In Millions)	0	0		4.1	17.8	12.4						34.3
PROGRAM DESCRIPTION/JUSTIFICATION:												
<p>1. The DDG Modernization Program is required to upgrade the 28 in-service Flight I and II DDG-51 Class ships in order to keep them relevant and affordable components of the Navy's Sea Power 21 Plan. The DDG Modernization Program is composed of a series of improvements in both the HM&E and Combat Systems (CS) areas installed in two respective phases beginning will the oldest ships first. The modernization installations are planned for each ship at approximately the 17.5 year midlife point for each hull. The quantity line represents the total DDG Modernization availabilities (HM&E and Combat Systems) started in each fiscal year.</p> <p>The HM&E, Phase I of the program, will be comprised of the technologies transitioned from SCN funded DDG 111/112 and those additional improvements required to support the extended service life of the DDG 51 Class. The upgrades will focus on technologies that reduce manning and reduce Total Ownership Costs (TOC) for the remaining hull life of each ship.</p> <p>The centerpiece of the CS, Phase II of DDG Modernization, will be the Aegis Weapon System (AWS) upgrade. This upgrade will consist of the introduction of displays, computing equipment and the computer program required to implement Aegis Open Architecture (AOA) and replacement of the existing SPY-1D Signal Processor (SIGPRO) with the Multi-Mission Signal Processor. Selected warfighting improvements will also be installed to round out the combat systems upgrade. This modernization program will provide a core modernization of the infrastructure "foundation" of each ship including the core engineering plan, core computing plan, and Combat Information Center (CIC). This modernization program will also provide an infrastructure foundation that will function as a landing zone for future warfighting capabilities.</p> <p>It is also anticipated that, in addition to those upgrades defined to be part of the DDG Modernization Program that additional alterations and repair actions will be accomplished as dictated by the SHIPMAIN process and Fleet maintenance organizations as an OPN funded Mission Life Extension (MLE) Program.</p>												

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE DDG MOD SUBHEAD NO. 11DM BLI: 0900	
<p>2. DDG111 & DDG112 will each receive DDG Modernization separately via SCN new construction funding not shown in these exhibits.</p> <p>DM001 - DDG MODERNIZATION HM&E Description: DDG51 Class Applicable Hulls: DDG 51 - DDG 78 HM&E Foundation: - Gigabit Ethernet Data Multiplex Sys (GEDMS) - MCS/DCS Console Upgrades w/Embedded Training Capability - Digital Video Surveillance System (DVSS) - Wireless Communications - Upgrade Integrated Bridge System (IBS) to Full IBS with steering controls</p> <p>DM002 - LANDBASED SITE EQUIPMENT Funds will be used to upgrade shore facilities for Combat Systems and HM&E alterations providing risk reduction testing.</p> <p>DM003 - MK 160 MOD X GUN WEAPON SYSTEM (GWS) Procures MK 160 Mod X Gun Weapon System (GWS) combat systems that consist of hardware, software, system engineering, integrated logistics support, system test & evaluation, training, data, installation assistance teams, spare and repair parts, and program management for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78).</p> <p>DM004 - AEGIS WEAPON SYSTEM (AWS) COMPUTER AND DISPLAY Procures equipment for the AWS Upgrades that consist of hardware, software, system engineering, integrated logistics support, system test & evaluation, training, data, installation assistance teams, spare and repair parts, and program management for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78).</p> <p>DM005 - MULTI-MISSION SIGPRO Procures Multi-Mission SIGPRO combat systems that consist of hardware, software, system engineering, integrated logistics support, system test & evaluation, training, data, installation assistance teams, spare and repair parts, and program management for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78).</p> <p>DM006 - MULTI-MISSION SOLID STATE AMPLIFIER (SSA)/CONTINUOUS WAVE ILLUMINATION (CWI) MICROWAVE TUBES Procures Multi-Mission Solid State Amplifier (SSA)/Continuous Wave Illumination (CWI) Microwave Tubes upgrades for DDG Modernization Program that consist of hardware, software, system engineering, integrated logistics support, system test & evaluation, training, data, installation assistance teams, spare and repair parts, and program management for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78).</p> <p>DM007 - SPY-1D(V) TRANSMITTER UPGRADES Procures SPY-1D(V) Transmitter Upgrades combat systems that consist of hardware, software, system engineering, integrated logistics support, system test & evaluation, training, data, installation assistance teams, spare and repair parts, and program management for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78).</p>		

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE DDG MOD SUBHEAD NO. 11DM BLI: 0900	
<p>DM008 - MULTI-MISSION BALLISTIC MISSILE DEFENSE (BMD) CAPABILITY Procures Multi-Mission BMD Capability combat systems that consist of hardware, software, system engineering, integrated logistics support, system test & evaluation, training, data, installation assistance teams, spare and repair parts, and program management for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78).</p> <p>DM009 - VERTICAL LAUNCH SYSTEM (VLS) MODS Procures Vertical Launch System (VLS) Modifications, Evolved Sea Sparrow Missile VLS Modifications, SM3 Operability Heating Ventilation Air Conditioning (HVAC) and VLS MODS for SM3 Block 3 combat systems that consist of hardware, software, system engineering, integrated logistics support, system test & evaluation, training, data, installation assistance teams, spare and repair parts, and program management for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78).</p> <p>DM010 - FIRE CONTROL SYSTEM (FCS) STABLE MASTER OSCILLATOR (STAMO) Procures Stable Master Oscillator (STAMO) combat systems that consist of hardware, software, system engineering, integrated logistics support, system test & evaluation, training, data, installation assistance teams, spare and repair parts, and program management for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78).</p> <p>DM011 - AN/SQQ-89A(V)15 WITH MULTI-FUNCTIONAL TOWED ARRAY (MFTA) Procures improved AN/SQQ-89(V)15 with Multi-Functional Towed Array (MFTA) combat systems to replace the installed MIL-STD AN/SQQ-89(V) that consist of COTS hardware, software, system engineering, integrated logistics support, system test & evaluation, training, data, installation assistance teams, spare and repair parts, and program management for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78).</p> <p>DM012 - COOPERATIVE ENGAGEMENT CAPABILITY (CEC) Procures Cooperative Engagement Capability (CEC) combat systems that consist of hardware, software, system engineering, integrated logistics support, system test & evaluation, training, data, installation assistance teams, spare and repair parts, and program management for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78).</p> <p>DM013 - CONJUNCTIVE ALTERATION DEFINITION AND INTEGRATION Procures Conjunctive Alteration Definition and Integration that include design, COTS refresh, procurement and backfit installation for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78).</p> <p>DM6IN - FMP INSTALLATION Funds are for installation of DDG Modernization equipment in support of the Fleet Modernization Program.</p> <p>DMCA1 - DDG-51 MODERNIZATION PROGRAM Description: DDG Modernization Congressional Add Procures SQQ-89(V) with Multi-Function Towed Array (MFTA) and other equipment for DDG Modernization Program that consist of hardware, software, system engineering, integrated logistics support, system test & evaluation, training, data, installation assistance teams, spare and repair parts, and program management for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78).</p> <p>DMCA3 - COMMUNICATIONS UPGRADE FOR DDG MODERNIZATION</p>		

CLASSIFICATION:	UNCLASSIFIED		
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)			DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE DDG MOD SUBHEAD NO. 11DM BLI: 0900		
<p>Description: Communications Upgrade for DDG Modernization Congressional Add</p> <p>Procures communications upgrades for DDG Modernization Program that consist of hardware, software, system engineering, integrated logistics support, system test & evaluation, training, data, installation assistance teams, spare and repair parts, and program management for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78).</p>			

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS				Weapon System AEGIS WEAPON SYSTEM						DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code A		P-1 LINE ITEM NOMENCLATURE DDG MOD SUBHEAD NO. 11DM						
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
	<u>EQUIPMENT</u> <u>SURFACE WARFARE</u>											
DM001	<u>DDG MODERNIZATION HM&E</u>											
	DIGITAL VIDEO SURVEILLANCE NRE/1ST ARTICLE		0.000	1	0.477	0.477	0	0.000	0.000	0	0.000	0.000
	FULL INTEGRATED BRIDGE SYSTEM W/STEERING CONTROL NRE/1ST ARTICLE		0.000	1	4.186	4.186	0	0.000	0.000	0	0.000	0.000
	MCS/DCS CONSOLE UPGRADES W/EMBEDDED TRAINING NRE/1ST ARTICLE		0.000	1	8.643	8.643	0	0.000	0.000	0	0.000	0.000
	DIGITAL VIDEO SURVEILLANCE SYSTEM (DVSS)		0.000	2	0.299	0.599	3	0.306	0.918	2	0.305	0.610
	WIRELESS COMMUNICATIONS		0.000	2	0.389	0.779	3	0.398	1.194	2	0.397	0.794
	FULL INTEGRATED BRIDGE SYSTEM (IBS) W/STEERING CONTROL		0.000	2	1.403	2.806	3	1.434	4.302	2	1.561	3.122
	MCS/DCS CONSOLE UPGRADES W/EMBEDDED TRAINING		0.000	2	3.954	7.908	3	4.041	12.122	2	4.033	8.066
	FULL IBS W/STEERING CONTROL RECURRING ENGINEERING		0.000	0	0.000	0.000	0	0.000	1.500	0	0.000	0.244
	GIGABIT ETHERNET DATA MULTIPLEX SYSTEM (GEDMS)		0.000	2	6.680	13.360	3	6.827	20.481	2	6.814	13.628
DM002	LANDBASED SITE EQUIPMENT		4.985	0	0.000	8.500	0	0.000	117.511	0	0.000	3.174
DM003	MK 160 MOD X GWS		0.000		0.000	0.000	0	0.000	0.000	1	3.473	3.473
DM004	AEGIS WEAPON SYSTEM (AWS) COMPUTER & DISPLAY UPGRADES		0.000	0	0.000	0.000	0	0.000	0.000	1	25.255	25.255
DM004	AEGIS AWS COMPUTER & DISPLAY RECURRING ENGINEERING		0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.725
DM005	MULTI-MISSION SIGPRO		0.000	0	0.000	0.000	0	0.000	0.000	1	12.700	12.700
DM006	MULTI-MISSION SSA/CWI MICROWAVE TUBES		0.000	0	0.000	0.000	0	0.000	0.000	1	0.952	0.952
DM007	SPY-1D(V) TRANSMITTER UPGRADES		0.000	0	0.000	0.000	0	0.000	0.000	1	2.116	2.116
DM008	MULTI-MISSION BMD CAPABILITY		0.000	0	0.000	0.000	0	0.000	0.000	1	1.059	1.059

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)				Weapon System AEGIS WEAPON SYSTEM						DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code A		P-1 LINE ITEM NOMENCLATURE DDG MOD SUBHEAD NO. 11DM						
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
DM009	VERTICAL LAUNCH SYSTEM (VLS) MODIFICATIONS		0.000	0	0.000	0.000	0	0.000	0.000	1	17.078	17.078
DM010	FIRE CONTROL SYSTEM (FCS) STABLE MASTER OSCILLATOR (STAMO)		0.000	0	0.000	0.000	0	0.000	0.000	1	3.327	3.327
DM011	AN/SQQ-89(V)15 W/MFTA NRE		0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	1.953
DM011	AN/SQQ-89(V)15 W/MFTA		0.000	0	0.000	0.000	0	0.000	0.000	1	8.109	8.109
DM012	COOPERATIVE ENGAGEMENT CAPABILITY (CEC)		0.000	0	0.000	0.000	0	0.000	0.000	1	4.676	4.676
DM013	CONJUNCTIVE ALTERATION DEFINITION AND INTEGRATION		0.000	0	0.000	0.000	0	0.000	1678	0	0.000	7.866
DMCA1	<u>DDG-51 MODERNIZATION PROGRAM CONGRESSIONAL ADD</u>											
	DDG-51 MODERNIZATION		5.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	SQQ-89A(V) W/MFTA		25.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
DMCA3	<u>COMMUNICATIONS UPGRADE FOR DDG MOD CONGRESSIONAL ADD</u>											
	COMMUNICATIONS UPGRADE		0.000	0	0.000	3.120	0	0.000	0.000	0	0.000	0.000
	SURFACE WARFARE Subtotal		34.985			50.378			159.706			118.927
	TOTAL EQUIPMENT		34.985			50.378			159.706			118.927
	<u>INSTALLATION</u>											
DM6IN	INSTALLATION OF EQUIPMENT		0.000	0	0.000	2.316	0	0.000	5.302	0	0.000	23.335
	TOTAL INSTALLATION		0.000			2.316			5.302			23.335
	TOTAL		34.985			52.694			165.008			142.262

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System AEGIS WEAPON SYSTEM				DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE DDG MOD BLIN: 0900				SUBHEAD 11DM	
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										
DM001 DDG MODERNIZATION HM&E										
DIGITAL VIDEO SURVEILLANCE NRE/1ST ARTICLE	1	0.477	NAVSEA	OCT-07	FP	NSWC SSES	SEP-08	DEC-09	YES	
DIGITAL VIDEO SURVEILLANCE SYSTEM (DVSS)	2	0.299	NAVSEA	OCT-07	FP	NSWC SSES	SEP-08	DEC-09	YES	
WIRELESS COMMUNICATIONS	2	0.389	NAVSEA	OCT-07	FP	NSWC/CRANE	SEP-08	DEC-09		
FULL INTEGRATED BRIDGE SYSTEM W/STEERING CONTROL NRE/1ST ARTICLE	1	4.186	NAVSEA	OCT-07	FP	NORTHROP GRUMMAN SPERRY	JUN-08	SEP-09		
FULL INTEGRATED BRIDGE SYSTEM (IBS) W/STEERING CONTROL	2	1.403	NAVSEA	OCT-07	FP	NORTHROP GRUMMAN SPERRY	JUN-08	SEP-09		
MCS/DCS CONSOLE UPGRADES W/EMBEDDED TRAINING NRE/1ST ARTICLE	1	8.643	NAVSEA	OCT-07	FP	LOCKHEED MARTIN	NOV-08	FEB-10		
MCS/DCS CONSOLE UPGRADES W/EMBEDDED TRAINING	2	3.954	NAVSEA	OCT-07	FP	LOCKHEED MARTIN	NOV-08	FEB-10		
GIGABIT ETHERNET DATA MULTIPLEX SYSTEM (GEDMS)	2	6.680	DAHLGREN	OCT-07	FP	VARIOUS	JUN-08	SEP-09		
FY 2009										
DM001 DDG MODERNIZATION HM&E										
DIGITAL VIDEO SURVEILLANCE SYSTEM (DVSS)	3	0.306	NAVSEA	OCT-08	FP	NSWC SSES	JUN-09	SEP-10		
WIRELESS COMMUNICATIONS	3	0.398	NAVSEA	OCT-08	FP	NSWC/CRANE	MAY-09	AUG-10		
FULL INTEGRATED BRIDGE SYSTEM (IBS) W/STEERING CONTROL	3	1.434	NAVSEA	OCT-08	FP	NORTHROP GRUMMAN SPERRY	MAY-09	AUG-10		
MCS/DCS CONSOLE UPGRADES W/EMBEDDED TRAINING	3	4.041	NAVSEA	OCT-08	FP	LOCKHEED MARTIN	JUN-09	SEP-10		
GIGABIT ETHERNET DATA MULTIPLEX SYSTEM (GEDMS)	3	6.827	DAHLGREN	OCT-08	FP	VARIOUS	JUN-09	SEP-10		
FY 2010										
DM001 DDG MODERNIZATION HM&E										
DIGITAL VIDEO SURVEILLANCE SYSTEM (DVSS)	2	0.305	NAVSEA	OCT-09	FP	NSWC SSES	DEC-09	MAR-11		
WIRELESS COMMUNICATIONS	2	0.397	NAVSEA	OCT-09	FP	NSWC/CRANE	DEC-09	MAR-11		
FULL INTEGRATED BRIDGE SYSTEM (IBS) W/STEERING CONTROL	2	1.561	NAVSEA	OCT-09	FP	NORTHROP GRUMMAN SPERRY	DEC-09	MAR-11		
MCS/DCS CONSOLE UPGRADES W/EMBEDDED TRAINING	2	4.033	NAVSEA	OCT-09	FP	LOCKHEED MARTIN	DEC-09	MAR-11		
GIGABIT ETHERNET DATA MULTIPLEX SYSTEM (GEDMS)	2	6.814	DAHLGREN	OCT-09	FP	VARIOUS	DEC-09	MAR-11		
DM003										
MK 160 MOD X GWS	1	3.473	NAVSEA	NOV-09	FP	GEN. DYNAMICS, FAIRFAX VA	DEC-09	DEC-11	YES	

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System AEGIS WEAPON SYSTEM				DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE DDG MOD BLIN: 0900				SUBHEAD 11DM	
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
DM004 AEGIS WEAPON SYSTEM (AWS) COMPUTER & DISPLAY UPGRADES	1	25.255	NAVSEA	NOV-09	FP	LOCKHEED, MOORESTOWN NJ	DEC-09	DEC-11	YES	
DM005 MULTI-MISSION SIGPRO	1	12.700	NAVSEA	NOV-09	FP	LOCKHEED, MOORESTOWN NJ	DEC-09	DEC-11	YES	
DM006 MULTI-MISSION SSA/CWI MICROWAVE TUBES	1	0.952	CRANE	NOV-09	FP	VARIOUS	DEC-09	DEC-11	YES	
DM007 SPY-1D(V) TRANSMITTER UPGRADES	1	2.116	NAVSEA	NOV-09	FP	LOCKHEED, MOORESTOWN NJ	DEC-09	DEC-11	YES	
DM008 MULTI-MISSION BMD CAPABILITY	1	1.059	NAVSEA	NOV-09	FP	LOCKHEED, MOORESTOWN NJ	DEC-09	DEC-11	YES	
DM009 VERTICAL LAUNCH SYSTEM (VLS) MODIFICATIONS	1	17.078	NAVSEA	NOV-09	FP	LOCKHEED, BALTIMORE MD	DEC-09	DEC-11	YES	
DM010 FIRE CONTROL SYSTEM (FCS) STABLE MASTER OSCILLATOR (STAMO)	1	3.327	NAVSEA	NOV-09	FP	RAYTHEON, MASSACHUSETTS	DEC-09	DEC-11	YES	
DM011 AN/SQQ-89(V)15 W/MFTA	1	8.109	NAVSEA	NOV-09	FP	LOCKHEED, SYRACUSE NY	DEC-09	DEC-11	YES	
DM012 COOPERATIVE ENGAGEMENT CAPABILITY (CEC)	1	4.676	NAVSEA	NOV-09	FP	RAYTHEON, PETERSBURG FL	DEC-09	DEC-11	YES	

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED DM001 DDG MODERNIZATION HM&E DIGITAL VIDEO SURVEILLANCE SYSTEM (DVSS)	TYPE MODIFICATION:	MODIFICATION TITLE: DDG MOD
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DESCRIPTION/JUSTIFICATION:
Funds will be utilized to procure and install the Digital Video Surveillance System (DVSS) HM&E upgrade in support of DDG Modernization.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$	
<u>FINANCIAL PLAN (IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT			2	0.6	3	0.9	2	0.6									7	2.1	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST			DSA	0.1	DSA	0.3	2	1.4									2	1.8	
<u>TOTAL PROCUREMENT</u>				0.7		1.2		2.0										3.9	

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED DM001 DDG MODERNIZATION HM&E FULL INTEGRATED BRIDGE SYSTEM (IBS) W/STEERING CON	TYPE MODIFICATION:	MODIFICATION TITLE: DDG MOD
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DESCRIPTION/JUSTIFICATION:
Funds will be utilized to procure and install the Integrated Bridge System (IBS) with steering control HM&E upgrade in support of DDG Modernization.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																		
<u>RDT&E</u>																		
<u>PROCUREMENT</u>																		
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT			2	2.8	3	4.3	2	3.1									7	10.2
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST			DSA	0.5	DSA	1.1	2	4.0									2	5.6
<u>TOTAL PROCUREMENT</u>				3.3		5.4		7.1										15.8

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED DM001 DDG MODERNIZATION HM&E GIGABIT ETHERNET DATA MULTIPLEX SYSTEM (GEDMS)	TYPE MODIFICATION:	MODIFICATION TITLE: DDG MOD
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DESCRIPTION/JUSTIFICATION:
Funds will be utilized to procure and install the Gigabit Ethernet Data Multiplex System (GEDMS) HM&E Upgrade in support of DDG Modernization.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																		
<u>RDT&E</u>																		
<u>PROCUREMENT</u>																		
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT			2	13.4	3	20.5	2	13.6									7	47.5
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST			DSA	1.2	DSA	2.7	2	11.5									2	15.4
<u>TOTAL PROCUREMENT</u>				14.6		23.2		25.1										62.9

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED DM001 DDG MODERNIZATION HM&E MCS/DCS CONSOLE UPGRADES W/EMBEDDED TRAINING	TYPE MODIFICATION:	MODIFICATION TITLE: DDG MOD
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DESCRIPTION/JUSTIFICATION:
Funds will be utilized to procure and install the MCS/DCS Console Upgrades in support of DDG Modernization.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$	
<u>FINANCIAL PLAN (IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT			2	7.9	3	12.1	2	8.1									7	28.1	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST			DSA	0.4	DSA	1.0	2	4.0									2	5.4	
<u>TOTAL PROCUREMENT</u>				8.3		13.1		12.1											33.5

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED DM001 DDG MODERNIZATION HM&E WIRELESS COMMUNICATIONS	TYPE MODIFICATION:	MODIFICATION TITLE: DDG MOD
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DESCRIPTION/JUSTIFICATION:
FUNDS WILL BE UTILIZED TO PROCURE AND INSTALL THE WIRELESS COMMUNICATION HM&E UPGRADE IN SUPPORT OF DDG MODERNIZATION.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																		
<u>RDT&E</u>																		
<u>PROCUREMENT</u>																		
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT			2	0.8	3	1.2	2	0.8									7	2.8
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST			DSA	0.1	DSA	0.2	2	0.7									2	1.0
<u>TOTAL PROCUREMENT</u>				0.9		1.4		1.5										3.8

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED DDG MODERNIZATION HM&E WIRELESS COMMUNICATIONS	MODIFICATION TITLE: DDG MOD
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: PUBLIC & PRIVATE SHIPYARD AVAILABILITIES; AIT

ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 16 Months

CONTRACT DATES:		FY 2008:	SEP-08	FY 2009:	MAY-09	FY 2010:	DEC-09
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DELIVERY DATES:		FY 2008:	DEC-09	FY 2009:	AUG-10	FY 2010:	MAR-11
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(\$ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010														TOTAL							
	Qty	\$	Qty	\$	Qty	\$	Qty	\$																			Qty	\$
PRIOR YEARS																												
FY 2008 EQUIPMENT			DSA	0.1	DSA	0.1	2	0.4																			2	0.6
FY 2009 EQUIPMENT					DSA	0.1	DSA	0.2																				0.3
FY 2010 EQUIPMENT							DSA	0.1																				0.1

INSTALLATION SCHEDULE

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

NOTE: Design Services Allocation (DSA) - Planning Yard design and shipcheck required for mandatory design tasks that must be completed within the two-year period prior to the actual shipyard installations.

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED DM003 MK 160 MOD X GWS	TYPE MODIFICATION:	MODIFICATION TITLE: DDG MOD
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DESCRIPTION/JUSTIFICATION:
 Procure and install MK 160 Mod X Gun Weapon System (GWS) for DDG Modernization

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$	
<u>FINANCIAL PLAN (IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT							1	3.5									1	3.5	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST								DSA	0.1									0.1	
<u>TOTAL PROCUREMENT</u>									3.6										3.6

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED DM004 AEGIS WEAPON SYSTEM (AWS) COMPUTER & DISPLAY UPGRADES	TYPE MODIFICATION:	MODIFICATION TITLE: DDG MOD
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DESCRIPTION/JUSTIFICATION:
Procure and Install AEGIS Weapon System (AWS) Computer and Display Upgrades for DDG Modernization.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$	
<u>FINANCIAL PLAN (IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT							1	25.3									1	25.3	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST								DSA	0.6									0.6	
<u>TOTAL PROCUREMENT</u>									25.9									25.9	

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: AEGIS WEAPON SYSTEM (AWS) COMPUTER & DISPLAY UPGRADES
 MODIFICATION TITLE: DDG MOD

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: Months PRODUCTION LEADTIME: 24 Months

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

DELIVERY DATES: FY 2008: FY 2009: FY 2010: DEC-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														DSA	0.6													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																		
In	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

Remarks:

CLASSIFICATION: UNCLASSIFIED **May 2009**

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED DM005 MULTI-MISSION SIGPRO	TYPE MODIFICATION:	MODIFICATION TITLE: DDG MOD
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DESCRIPTION/JUSTIFICATION:
Procure and install Multi-Mission SIGPRO for DDG Modernization.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$	
<u>FINANCIAL PLAN (IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT							1	12.7									1	12.7	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST								DSA	0.1									0.1	
<u>TOTAL PROCUREMENT</u>									12.8										12.8

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: MULTI-MISSION SIGPRO MODIFICATION TITLE: DDG MOD

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: Months PRODUCTION LEADTIME: 24 Months

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

DELIVERY DATES: FY 2008: FY 2009: FY 2010: DEC-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														DSA	0.1												0.1

INSTALLATION SCHEDULE

	FY 2007 & Prior	FY 2008				FY 2009				FY 2010																TOTAL		
		1	2	3	4	1	2	3	4	1	2	3	4															
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:

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED DM009 VERTICAL LAUNCH SYSTEM (VLS) MODIFICATIONS	TYPE MODIFICATION:	MODIFICATION TITLE: DDG MOD
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DESCRIPTION/JUSTIFICATION:
Procure and install Vertical Launch System (VLS) Mods for DDG Modernization.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$	
<u>FINANCIAL PLAN (IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT							1	17.1									1	17.1	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST								DSA	0.4									0.4	
<u>TOTAL PROCUREMENT</u>									17.5										17.5

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED DM010 FIRE CONTROL SYSTEM (FCS) STABLE MASTER OSCILLATOR (STAMO)	TYPE MODIFICATION:	MODIFICATION TITLE: DDG MOD
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DESCRIPTION/JUSTIFICATION:
Procure and Install Stable Master Oscillator (STAMO) for DDG Modernization.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																		
<u>RDT&E</u>																		
<u>PROCUREMENT</u>																		
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT							1	3.3									1	3.3
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST								DSA	0.1									0.1
<u>TOTAL PROCUREMENT</u>									3.4									3.4

CLASSIFICATION: UNCLASSIFIED **May 2009**

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED DM011 AN/SQQ-89(V)15 W/MFTA	TYPE MODIFICATION:	MODIFICATION TITLE: DDG MOD
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DESCRIPTION/JUSTIFICATION:
 Procure and install AN/SQQ-89A(V) 15 w/MFTA for DDG Modernization.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$	
<u>FINANCIAL PLAN (IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT							1	8.1									1	8.1	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST								DSA	0.2									0.2	
<u>TOTAL PROCUREMENT</u>									8.3									8.3	

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED AN/SQQ-89(V)15 W/MFTA	MODIFICATION TITLE: DDG MOD
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:	Months	PRODUCTION LEADTIME:	24 Months
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CONTRACT DATES:	FY 2008:	FY 2009:	FY 2010:	DEC-09
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DELIVERY DATES:	FY 2008:	FY 2009:	FY 2010:	DEC-11
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(\$ 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																												

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:

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED DM012 COOPERATIVE ENGAGEMENT CAPABILITY (CEC)	TYPE MODIFICATION:	MODIFICATION TITLE: DDG MOD
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DESCRIPTION/JUSTIFICATION:
Procure and Install Cooperative Engagement Capability (CEC) for DDG Modernization.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																		
<u>RDT&E</u>																		
<u>PROCUREMENT</u>																		
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT							1	4.7									1	4.7
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST								DSA	0.2									0.2
<u>TOTAL PROCUREMENT</u>									4.9									4.9

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: COOPERATIVE ENGAGEMENT CAPABILITY (CEC) MODIFICATION TITLE: DDG MOD

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: Months PRODUCTION LEADTIME: 24 Months

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

DELIVERY DATES: FY 2008: FY 2009: FY 2010: DEC-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														DSA	0.2											0.2

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											
Exhibit P-40, BUDGET ITEM JUSTIFICATION										DATE		May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						P-1 LINE ITEM NOMENCLATURE FIREFIGHTING EQUIPMENT SUBHEAD NO. 81HB BLI: 0910							
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)	130.8	A		9.1	8.3	11.4							
SPARES COST (In Millions)	0.0	0		0.0	0.0	0.0							
PROGRAM DESCRIPTION/JUSTIFICATION:													
The Navy decided that a number of survivability improvements needed to be incorporated into mission-essential ship and combat systems during their acquisition and modernization. Shipboard fires have emphasized the urgent need to upgrade features and design standards that contribute to survivability.													
HB001 - HALON 1301													
Procures new Halon cylinders since existing units (procured FY90 and prior) are no longer suitable for use.													
HB002 - MAGAZINE SPRINKLING IMPROVEMENT													
Replaces the detection system designed in the 1960s, which performs poorly and is difficult to support and maintain.													
HB003 - BREATHING APPARATUS REPLACEMENT													
Breathing apparatus are reaching service life of 15 years and must be replaced. There is no installation associated with this replacement. There are 3 types of apparatus which require replacement: (1) confined-space entry breathing apparatus, which are the first requiring replacement; only 2 are required per ship. (2) emergency escape breathing devices, and (3) self-contained breathing apparatus for firefighters. The cost varies based on ship type.													
HB005 - AQUEOUS FILM-FORMING FOAM (AFFF)													
Procures and installs equipment to dispense chemicals into AFFF systems to prevent-sulfate reducing bacteria from producing hydrogen sulfide (H2S). H2S is a dangerous gas and is responsible for a fatality aboard ship in 2005.													
HB007 - REPLACE SOLENOID-OPERATED PILOT VALVE (SOPV)													
The SOPV is a high-maintenance item. The SOPV provides a way for remote control of AFFF and countermeasure wash down (CMWD) systems. Replacement is required to insure these systems are operational for emergencies.													

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE FIREFIGHTING EQUIPMENT SUBHEAD NO. 81HB BLI: 0910	
<p>HB008 - BREATHING APPARATUS The firefighter's Self-Contained Breathing Apparatus (SCBA) is a compressed air breathing device compatible with firefighter protective wear and helmet, and other damage control equipment. The SCBA is a commercially available device which was tested and certified by the National Institute for Occupational Safety and Health (NIOSH) and is in accordance with the National Fire Protection Association (NFPA) Standard 1981 for a firefighter's breathing apparatus.</p> <p>The SCBA will provide breathable air to the firefighter for a longer period of time than the OBA, with fewer physical demands on the user. It will provide air at a rate which satisfies breathing requirements of the user for duration of up to one hour. Equipment supporting the SCBA includes: booster pumps for ships with HP air system, portable diesel compressors for all ships when ships power is lost, portable electric compressors for recharging purposes for all ships (ships with HP air systems when HP air is down and all other ships are primary source of recharge air), and a filter kit which provides breathing quality air to the booster pumps/compressors for use in recharging the SCBA air cylinders. Inventory objective is 168. 24 LCU crafts were added to the prior inventory objective of 144. Equipment for LCU's was obtained from decommissioned ships and re-certified for use. Unit cost varies.</p> <p>HB009 - FIREFIGHTER ACCESS Provides safe entry for heavily-laden firefighters down the escape trunks of a ship, and provides a method for hoisting the firefighters back up to the damage control deck. Firefighter access is provided in DDG-75 and follow during construction.</p> <p>HB830 - PRODUCTION ENGINEERING Development of technical manuals, PMS, Provisioning Technical documentation (PTD), Program Support Data (PSD) and Allowance Parts List (APLs); engineering in support of design reviews.</p> <p>HB5IN - INSTALLATION OF EQUIPMENT Funding is for installation of equipment for the Fleet Modernization Program installations.</p>		

CLASSIFICATION:			UNCLASSIFIED									
EXHIBIT P-5 COST ANALYSIS				Weapon System						DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code A		P-1 LINE ITEM NOMENCLATURE FIREFIGHTING EQUIPMENT SUBHEAD NO. 81HB						
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
	<u>EQUIPMENT</u>											
HB001	HALON 1301	A	2.890	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HB002	MAGAZINE SPRINKLING IMPROVEMENT	A	0.000	0	0.000	0.000	0	0.000	0.000	8	0.191	1.530
HB003	CONFINED-SPACE ENTRY BREATHING APPARATUS		0.000	0	0.000	0.000	0	0.000	0.000	115	0.004	0.460
HB003	EMERGENCY ESCAPE BREATHING DEVICES (EEBD)		0.000	0	0.000	0.000	0	0.000	0.000	3	0.213	0.640
HB005	<u>AFFF UPGRADES</u>											
	AFFF IMPROVED FIREFIGHTING	A	12.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	AFFF H2S CONTROL VALVES / H2S MITIGATION	A	0.485	0	0.000	0.000	6	0.100	0.600	3	0.085	0.254
HB007	SOPV REPLACEMENT		0.000	0	0.000	0.000	0	0.000	0.000	8	0.032	0.252
HB008	BREATHING APPARATUS	A	67.192	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HB009	FIREFIGHTER ACCESS	A	0.570	0	0.000	0.100	7	0.055	0.382	25	0.056	1.397
HB830	PRODUCTION ENGINEERING	A	2.714	0	0.000	1.724	0	0.000	1.680	0	0.000	1.780
	TOTAL EQUIPMENT		85.851			1.824			2.662			6.313
	<u>INSTALLATION</u>											
HBINS	INSTALL OF EQUIPMENT N85	A	16.990	0	0.000	2.911	0	0.000	3.195	0	0.000	2.300
HBINS	INSTALL OF EQUIPMENT N86	A	23.122	0	0.000	1.710	0	0.000	2.412	0	0.000	2.810

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)				Weapon System						DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code A		P-1 LINE ITEM NOMENCLATURE FIREFIGHTING EQUIPMENT SUBHEAD NO. 81HB						
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
HBINS	INSTALL OF EQUIPMENT N87	A	4.831	0	0.000	2.618	0	0.000	0.000	0	0.000	0.000
	TOTAL INSTALLATION		44.943			7.239			5.607			5.110
	TOTAL		130.794			9.063			8.269			11.423

CLASSIFICATION:		UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE FIREFIGHTING EQUIPMENT BLIN: 0910				SUBHEAD 81HB		
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											
HB005 AFFF UPGRADES AFFF H2S CONTROL VALVES / H2S MITIGATION	6	0.100	NSWC CSS, FL		WR	DELPHINUS INC EDDYSTONE	NOV-08	MAR-09	YES		
HB009 FIREFIGHTER ACCESS	7	0.055	NSWC CSS, FL		WR	SELLSTROM MANUFACTURING	NOV-08	JAN-09	YES		
FY 2010											
HB002 MAGAZINE SPRINKLING IMPROVEMENT	8	0.191	NAVSEA		C/FP	TBD	DEC-09	JUN-10			
HB003 CONFINED-SPACE ENTRY BREATHING APPARATUS	115	0.004	NSWC CSS, FL		WR	TBD	NOV-09	FEB-10			
EMERGENCY ESCAPE BREATHING DEVICES (EEBD)	3	0.213	NSWC CSS, FL		WR	TBD	NOV-09	FEB-10			
HB005 AFFF UPGRADES AFFF H2S CONTROL VALVES / H2S MITIGATION	3	0.085	NSWC CSS, FL		WR	DELPHINUS INC EDDYSTONE	NOV-09	MAR-10	YES		
HB007 SOPV REPLACEMENT	8	0.032	NAVSEA		C/FP	TBD	OCT-09	JUN-10			
HB009 FIREFIGHTER ACCESS	25	0.056	NSWC CSS, FL		WR	SELLSTROM MANUFACTURING	NOV-09	JAN-10	YES		

CLASSIFICATION: UNCLASSIFIED **May 2009**

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED HB001 HALON 1301	TYPE MODIFICATION:	MODIFICATION TITLE: FIREFIGHTING EQUIPMENT
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DESCRIPTION/JUSTIFICATION:
HALON 1301 procures new Halon cylinders since existing units (procured FY90 and prior) are no longer suitable for use.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$										
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		
<u>PROCUREMENT</u>																		
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT	319	2.9														319	2.9	
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST	318	22.9	1	0.1												319	23.0	
<u>TOTAL PROCUREMENT</u>		25.8		0.1													25.9	

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED HALON 1301	MODIFICATION TITLE: FIREFIGHTING EQUIPMENT
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: VAR

ADMINISTRATIVE LEADTIME: 12 Months PRODUCTION LEADTIME: 2 Months

CONTRACT DATES:	FY 2008:	FY 2009:	FY 2010:
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DELIVERY DATES:	FY 2008:	FY 2009:	FY 2010:
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(\$ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$											Qty	\$
PRIOR YEARS	318	22.9	1	0.1															319	23.0
FY 2008 EQUIPMENT																				
FY 2009 EQUIPMENT																				
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												TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4									
In	317	1	0	1	0	0	0	0	0	0	0	0	0									319
Out	317	0	1	0	1	0	0	0	0	0	0	0	0									319

Remarks:

CLASSIFICATION: UNCLASSIFIED **May 2009**

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED HB002 MAGAZINE SPRINKLING IMPROVEMENT	TYPE MODIFICATION:	MODIFICATION TITLE: FIREFIGHTING EQUIPMENT
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DESCRIPTION/JUSTIFICATION:
MAGAZINE SPRINKLING IMPROVEMENT REPLACES THE DETECTION SYSTEM DESIGNED IN THE 1960s, WHICH PERFORMS POORLY AND DIFFICULT TO SUPPORT AND MAINTAIN.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		
<u>PROCUREMENT</u>																		
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT							8	1.5									8	1.5
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER (PRODUCTION ENG)				0.9		0.7		0.7										2.3
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST					AP	0.2	2	1.5									2	1.7
<u>TOTAL PROCUREMENT</u>				0.9		0.9		3.7										5.5

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED HB005 AFFF UPGRADES AFFF H2S CONTROL VALVES / H2S MITIGATION	TYPE MODIFICATION: SHIPALT-AIT	MODIFICATION TITLE: FIREFIGHTING EQUIPMENT
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DESCRIPTION/JUSTIFICATION:

AFFF H2S Control Valves relocates and adds control valves to isolate areas most susceptible to producing H2S. *Equipment cost is included within install cost since all equipment is expected to be procured by installing activity. AFFF H2S Mitigation procures and installs equipment to dispense chemicals into AFFF systems to prevent-sulfate reducing bacteria from producing hydrogen sulfide (H2S), a dangerous gas.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		
<u>PROCUREMENT</u>																		
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT	1	0.5			6	0.6	3	0.3									10	1.4
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER PRODUCTION ENG				0.6		0.5		0.5										1.6
OTHER H2S CONTROL VALVES	3				3													6
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST	2	1.2	2	1.9	8	2.9	3	0.5									15	6.5
<u>TOTAL PROCUREMENT</u>		1.7		2.5		4.0		1.3										9.5

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: AFFF UPGRADES AFFF H2S CONTROL VALVES / H2S MITIGATION
 MODIFICATION TITLE: FIREFIGHTING EQUIPMENT

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 1 Months PRODUCTION LEADTIME: 4 Months

CONTRACT DATES: FY 2008: NOV-08 FY 2009: NOV-09

DELIVERY DATES: FY 2008: MAR-09 FY 2009: MAR-10

(\$ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$											Qty	\$
PRIOR YEARS	2	1.2	2	1.9															4	3.1
FY 2008 EQUIPMENT																				
FY 2009 EQUIPMENT					8	2.9	1	0.2											9	3.1
FY 2010 EQUIPMENT							2	0.3											2	0.3
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	0	0	1	0	1	3	3	2	1	1	1	0														15
Out	0	2	0	0	1	1	0	3	3	2	1	1	1														15

Remarks:

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED HB005 AFFF UPGRADES AFFF IMPROVED FIREFIGHTING	TYPE MODIFICATION:	MODIFICATION TITLE: FIREFIGHTING EQUIPMENT
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DESCRIPTION/JUSTIFICATION:
AFFF systems are improved to the Balanced Pressure Proportioner Type and receive dedicated Automatic Bus Transfer. This program completes in FY 08.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT	34	12.0															34	12.0	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST	30	35.5	4	5.2													34	40.7	
<u>TOTAL PROCUREMENT</u>		47.5		5.2														52.7	

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: AFFF UPGRADES AFFF IMPROVED FIREFIGHTING
 MODIFICATION TITLE: FIREFIGHTING EQUIPMENT

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPALT-AIT

ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 6 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	30	35.5	4	5.2																				34	40.7
FY 2008 EQUIPMENT																									
FY 2009 EQUIPMENT																									
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														TOTAL					
		1	2	3	4	1	2	3	4	1	2	3	4																
In	30	1	1	1	1	0	0	0	0	0	0	0	0																34
Out	30	0	2	0	0	2	0	0	0	0	0	0	0																34

Remarks:

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED HB007 SOPV REPLACEMENT	TYPE MODIFICATION:	MODIFICATION TITLE: FIREFIGHTING EQUIPMENT
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DESCRIPTION/JUSTIFICATION:
 The SOPV is a high-maintenance item. The SOPV provides a way for remote control of AFFF and countermeasure washdown (CMWD) systems. Replacement is required to insure these systems are operational for emergencies.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT							8	0.3									8	0.3	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER PRODUCTION ENG				0.1		0.2		0.2										0.5	
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST					AP	0.2		8	0.4								8	0.6	
<u>TOTAL PROCUREMENT</u>				0.1		0.4		0.9										1.4	

CLASSIFICATION: UNCLASSIFIED **May 2009**

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED HB008 BREATHING APPARATUS	TYPE MODIFICATION:	MODIFICATION TITLE: FIREFIGHTING EQUIPMENT
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DESCRIPTION/JUSTIFICATION:
The SCBA will provide breathable air to the Fire Fighter for a longer period of time than the OBA with reduced physical demands on the user.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		

<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT	168	67.2																168	67.2
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER PRODUCTION ENG				0.2		0.1													0.3
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST	144	81.8			24	1.0												168	82.8
<u>TOTAL PROCUREMENT</u>		149.0		0.2		1.1													150.3

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: BREATHING APPARATUS MODIFICATION TITLE: FIREFIGHTING EQUIPMENT

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 30 Months PRODUCTION LEADTIME: 3-4 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	144	81.8			24	1.0																		168	82.8
FY 2008 EQUIPMENT																									
FY 2009 EQUIPMENT																									
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														TOTAL				
		1	2	3	4	1	2	3	4	1	2	3	4															
In	139	0	1	3	1	6	6	6	6	0	0	0	0															168
Out	128	11	1	3	0	7	6	6	6	0	0	0	0															168

Remarks:

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED HB009 FIREFIGHTER ACCESS	TYPE MODIFICATION: SHIPALT	MODIFICATION TITLE: FIREFIGHTING EQUIPMENT
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DESCRIPTION/JUSTIFICATION:
 Firefighter access provides safe entry for heavily-laden firefighters down the escape trunks of a ship and provides a method for hoisting the firefighters back up to the damage control deck. Firefighter access is provided in DDG-75 and follow during construction.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		
<u>PROCUREMENT</u>																		
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT	7	0.6		0.1	7	0.4	25	1.4									39	2.5
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER PRODUCTION ENG				0.3		0.2		0.2										0.7
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST	8	0.8			7	1.4	25	2.8									40	5.0
<u>TOTAL PROCUREMENT</u>		1.4		0.4		2.0		4.4										8.2

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: FIREFIGHTER ACCESS MODIFICATION TITLE: FIREFIGHTING EQUIPMENT

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPALT - AIT

ADMINISTRATIVE LEADTIME: 1 Months PRODUCTION LEADTIME: 2 Months

CONTRACT DATES: FY 2008: FY 2009: NOV-08 FY 2010: NOV-09

DELIVERY DATES: FY 2008: FY 2009: JAN-09 FY 2010: JAN-10

(\$ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$											Qty	\$
PRIOR YEARS	8	0.8																	8	0.8
FY 2008 EQUIPMENT																				
FY 2009 EQUIPMENT					7	1.4													7	1.4
FY 2010 EQUIPMENT							25	2.8											25	2.8
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	6	0	1	1	0	0	2	3	2	5	7	8	5											40
Out	6	0	1	0	1	0	2	3	2	5	7	8	5											40

Remarks:

CLASSIFICATION:		UNCLASSIFIED										
Exhibit P-40, BUDGET ITEM JUSTIFICATION										DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						P-1 LINE ITEM NOMENCLATURE COMMAND AND CONTROL SWITCHBOARD SUBHEAD NO. 81GE BLI: 0925						
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)	50.8	A		2.2	6.3	4.4						
SPARES COST (In Millions)	0.0	0		0.0	0.0	0.0						
PROGRAM DESCRIPTION/JUSTIFICATION:												
<p>The switchboard program provides mission critical switching capability required to link shipboard combat equipment including weapons, launchers, sensors, computers and navigation equipment. In essence, switchboards serve as the central connection point for most elements of combat and weapon systems, interior communications, data transfer, and command and control systems. They are designed to accommodate either analog or digital interfaces or a combination of both. In total, this budget item supports approximately 200 ships and 1,000 pieces of equipment throughout the acquisition life cycle.</p> <p>Functions include: data routing; action cutout; test and operating mode selection (including casualty back-up modes); power monitoring and control; circuit protection; peripheral equipment isolation; and signal processing, frequency conversion amplification and switching. In summary, the primary purpose is to provide systems intra and interface compatibility.</p> <p>Changes in other elements of the combat and IC systems will frequently mandate either conjunctive modification to switchboards via ship change documents (SCDs), ordnance alteration (ORDALT)/field change (FCs) or partial or complete replacement of existing switchboards. Typical switchboard mods include hardware/field change kits, ORDALT/SCD/FC instructions, technical manual updates and revisions to other supporting documentation. Hull unique switchboard configurations require hull unique documentation. Subsequent alterations to these switchboards require hull unique design, hardware, installation, and checkout procedures. New switchboards are normally installed during a regular overhaul by a shipyard.</p> <p>Command and control switchboards are currently installed on and are required for almost all surface combatants and amphibious warfare ships. Individual switchboard unit cost varies from ship to ship, depending upon size, complexity, and whether analog or digital interfaces or some combination thereof are utilized. Modifications to existing switchboards via SHIPALTs, SCDs, ORDALTs or FCs are quantified by kits or change packages rather than individual units. Switchboard hardware is normally procured by the Invitation For Bids (IFB) process, from manufacturers on Qualified Products List (QPL)-17000. There are currently six companies listed on QPL-17000. All contracts awarded are competitive, fixed price.</p>												

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE COMMAND AND CONTROL SWITCHBOARD SUBHEAD NO. 81GE BLI: 0925	
<p>Shipboard Air Traffic Control Communications (SATCC)</p> <p>The SATCC program mission is to provide a reliable, state-of-the-art communications system to enhance safe shipboard launch and recovery of high performance aircraft. Successful and safe flight operations demands coordinated action and on-demand communication between pilots, Air Traffic Controllers (ATC), Landing Signal Officers (LSO), the Air Boss and flight deck personnel, together forming the ATC team.</p> <p>GE003 Combat Systems & Interior Communication Switchboard Engineering and Modifications Upgrades to Equipment, Drawings, Technical Manuals (TMs) Allowance Parts Lists (APLs) and Allowance Equipage Lists (AELs). This line covers the costs to upgrade/modify existing equipment and associated technical documentation to implement and validate upgraded switching configurations essential for the ships' switchboards to properly integrate all elements of the Combat System and Interior Communication interfaces. The upgraded engineering modification drives the procurement of hardware modification kits (i.e., ORDALTs & Field Changes). These engineering modifications are essential to the functional deployment of Battle Force Interoperability.</p> <p>GE900 SATCC provides simultaneous operations of all ATC communication systems from a single Touch Entry Display (TED) user terminal, enhancing safety during Case III operations. SATCC fully integrates the Air Traffic Control communication suite, including Air Traffic Control Center, PriFly, LSO and flight deck personnel. SATCC provides on-demand and reliable voice communications for the ATC team to perform these functions safely.</p>		

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS				Weapon System							DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code		P-1 LINE ITEM NOMENCLATURE COMMAND AND CONTROL SWITCHBOARD SUBHEAD NO. 81GE						
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
GE003	EQUIPMENT COMMAND & CONTROL ORDALT/FIELD CHANGE KITS	A	45.871	11	0.024	0.266	10	0.043	0.425	10	0.044	0.435
GE003	ENGINEERING UPGRADES/MODIFICATIONS TO EQUIPMENT & TECHNICAL DOCUMENTATION		4.909	0	0.000	1.908	0	0.000	1.952	0	0.000	1.264
GE900	SHIPBOARD AIR TRAFFIC CONTROL COMMUNICATIONS (SATCC)		0.000	0	0.000	0.000	0	0.000	3.949		0.000	2.684
	TOTAL EQUIPMENT		50.780			2.174			6.326			4.383
TOTAL			50.780			2.174			6.326			4.383

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE COMMAND AND CONTROL SWITCHBOARD BLIN: 0925				SUBHEAD 81GE	
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										
GE003 COMMAND & CONTROL ORDALT/FIELD CHANGE KITS	11	0.024	PHD NSWC		FFP	CACI/OXNARD, CA	OCT-07	NOV-07	YES	JUN-08
FY 2009										
GE003 COMMAND & CONTROL ORDALT/FIELD CHANGE KITS	10	0.043	PHD NSWC		FFP	CACI/OXNARD, CA	OCT-08	NOV-08	YES	JUN-09
FY 2010										
GE003 COMMAND & CONTROL ORDALT/FIELD CHANGE KITS	10	0.044	PHD NSWC		FFP	CACI/OXNARD, CA	MAY-10	JUN-10	YES	JAN-11

CLASSIFICATION: UNCLASSIFIED																							
Exhibit P-23, TIME PHASED REQUIREMENT SCHEDULE COMMAND & CONTROL ORDALT/FIELD CHANGE KITS GE003				APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY / BA 1												P-1 LINE ITEM NOMENCLATURE COMMAND AND CONTROL SWITCHBOARD (81GE)						DATE May 2009	
				FY 2008				FY 2009				FY 2010											
				1	2	3	4	1	2	3	4	1	2	3	4								
ACTIVE FORCE INVENTORY	34	2	3	3	3	0	3	4	3	0	2	2	6										
SCHOOL/OTHER TRAINING																							
OTHER																							
TOTAL PHASED REQ	34	36	39	42	45	45	48	52	55	55	57	59	65										
ASSETS ON HAND																							
DELIVERY																							
FY 07 & PRIOR	34																						
FY 08		2	3	3	3																		
FY 09						3	4	3															
FY 10										2	2	6											
TOTAL ASSETS	34	36	39	42	45	45	48	52	55	55	57	59	65										
QTY OVER(+) OR SHORT(-)	0	0	0	0	0	0	0	0	0	0	0	0	0										
REMARKS:								TOTAL RQMT				INSTALLED ON 10/07		ON HAND AS OF 10/07		FY 07 & PRIOR UNDELIVERED		UNFUNDED					
								114				2		2		0		0					
	PROC LEADTIME mos				ADMIN VAR mos				INITIAL ORDER VAR mos				REORDER VAR mos										

CLASSIFICATION: UNCLASSIFIED															
Exhibit P-23A, Installation Data								P-1 LINE ITEM NOMENCLATURE COMMAND AND CONTROL SWITCHBOARD				DATE May 2009			
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY /BA 1								Installing Agent PHD							
1ST QTR		2ND QTR		3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR	
EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY
FY 2008								FY 2009							
CG 67	2	CG 72	1	CG 69	1	CG 63	2			CG 53	3	CG 58	2	CG 61	2
		LHD 6	2	CG 57	1	CG 65	1					LHA 5	2	LHD 3	1
				CVN 74	1										
FY 2010															
		CG 55	2	LHD 5	2	CG 54	3								
						CG 56	3								

CLASSIFICATION:		UNCLASSIFIED									
Exhibit P-40, BUDGET ITEM JUSTIFICATION										DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						P-1 LINE ITEM NOMENCLATURE POLLUTION CONTROL EQUIPMENT SUBHEAD NO. 81HF BLI: 0935					
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)	261.4			32.1	27.8	25.0					
SPARES COST (In Millions)	0.0			0.5	0.7	0.4					
PROGRAM DESCRIPTION/JUSTIFICATION:											
<p>POLLUTION CONTROL SYSTEMS/EQUIPMENT: This item provides funds for the procurement of pollution control systems and equipment that are required by Navy ships in order for them to comply with international regulations, federal laws, DOD Directives and Navy environmental protection regulations. These regulations, laws and directives restrict the discharge of oily waste, sewage, solid waste, plastic waste, medical waste and hazardous waste. Most of these applicable regulations require Navy ships to comply by fixed deadline dates. Failure to comply carries potential personal, civil, and criminal liability, and significantly imposes constraints on the operational capabilities of Navy ships. In some instances, the compliance schedule has required an acceleration of the normal schedules in the procurement process.</p> <p>HF024 - CFC CONVERSION PROGRAM The production of chlorofluorocarbon-based refrigerants (including CFC-12, and CFC-114) was prohibited after 31 DEC 95 by the Clean Air Act of 1990. Presidential Executive Order 12843 of 21 APR 93 calls for federal agencies to "maximize the use of safe alternatives to ozone-depleting substances." OPNAVINST 5090.1B dated 1 NOV 94 further requires the "reduction of the use and emission of (ozone-depleting substances) to the lowest achievable level." The Navy is currently dependent on CFC-based refrigerants for the mission-critical cooling of (1) vital electronics and weapon systems, (2) food and medical stowage, and (3) inhabited spaces aboard surface ships and submarines. To counter the immediate threat of production cessation on uninterrupted Fleet operations, DoD directed the Defense Logistics Agency to establish a stockpile of CFC-based refrigerants. The stockpile was sized to support Fleet operations until the last CFC-based systems are retired or converted to ozone-friendly refrigerants. This program procures and installs conversion kits on existing CFC-12 Refrigeration and CFC-114 A/C plants onboard surface ships and submarines.</p> <p>HF030-PLASTIC WASTE PROCESSORS Machalt ECP 600, Mod 1 and SHIPALT 2027 Backfit, installs improved plastic waste processors (PWPs) on all surface ships that currently have the baseline system</p>											

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE POLLUTION CONTROL EQUIPMENT SUBHEAD NO. 81HF BLI: 0935	
<p>installed. Improves the compression drive system, incorporates a self-cleaning feature, has a redesigned frame that is more open (allowing easier access for cleaning), has 34 percent fewer components, and has a process rate that is three times the original design. Upon completion of the installation program, annual operational, preventive maintenance, corrective maintenance and overhaul cost savings of \$11.7M are anticipated. Return on investment for the Mod 1 PWP is approximately two years per installation. Inventory objective is 322.</p> <p>HF031 - POLLUTION CONTROL EQUIPMENT FIELD CHANGES Funds field changes for reliability and maintainability improvements and corrections for various conventional pollution control equipment including Vacuum and Gravity Sewage Collection Holding and Transfer (CHT) Systems, Oil Pollution Abatement (OPA) Equipment, and Solid Waste Equipment (SWE).</p> <p>MachAlt 530 replaces existing failure-prone sewage pump mechanical seals with new technology pressurized cartridge mechanical seals. The new seal will significantly extend the service life of sewage pump seals and reduce the need for Sailors to routinely handle and change out sewage-contaminated seal oil. The new sensors will have a significantly extended service life. Return on investment for the MachAlt 530 is less than three years per installation.</p> <p>MachAlt 532 replaces existing failure-prone mercury float switches used in sewage holding tanks with COTS technology, non-intrusive, magnetic level sensors. The new sensors will have a significantly extended service life, will not require sewage tank opening to repair sensor failures, and will not require hazardous material (mercury) disposal upon failure. Return on investment for the MachAlt 530 is less than two years per installation.</p> <p>SHORE BASED POLLUTION EQUIPMENT The Shorebased funds provide for equipment required to clean up Navy oil spills on the open sea as required by the Federal Waste Pollution Control Act - Public Law 92-500. The law created a National Oil and Hazardous Substance Pollution Contingency Plan, and designates the Department of Defense as one of the primary agencies responsible for promotion of effective operation of the plan. OPNAVINST 5090.1A and NAVSEAINST 4740.8A assigned the Supervisor of Salvage the responsibility to provide technical expertise, resources, and equipment for cleaning Navy-originated spills of oil and other hazardous material in coastal waters or the open sea. Major items of procurement remaining are:</p> <p>HF038 - FENDER SYSTEMS Fender systems are large energy absorbing cushions placed between two vessels to prevent related motions damage. There are up to 4 fenders per system.</p> <p>HF040 - SUPPORT SYSTEMS These systems include those auxiliary systems required to keep the oil spill responders operating in the field. These systems include equipment required for command and control, communication, supply, personnel transfer craft, GPS asset tracking, repair, towing, supply, offloading, deployment, firefighting, demobilization, and other ancillary requirements of a spill response.</p> <p>HF051 - OIL BOOM SYSTEMS These systems consist of 2,000' of inflatable oil boom, or 750' of fireboom with protective hardware, or 2000-4000' (depending on type) of shallow water boom for use in protected areas, including all associated equipment required to store, inflate, deploy, recover, and repair the boom. Inflatable boom systems also include 150' of shoreline transition boom to cross the beach/breaker area. The systems are packaged in 8' x 8' x 20' shipping containers.</p> <p>HF055 - SALVAGE SKIMMER SYSTEMS These systems are a collection of small, special-purpose skimmers, dispersant spray systems, containment boom, shoreline transition boom, transfer pumps, storage tanks, sorbents, and ancillary equipment intended as a stand-alone response package for small, salvage-related spills inside and adjacent to ships or inland locations, or special remote tanker offloading locations.</p>		

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE POLLUTION CONTROL EQUIPMENT SUBHEAD NO. 81HF BLI: 0935	
<p>HF057 - LOGISTICS SUPPORT SYSTEMS Logistics Support Systems are used to assist in disposal of removed oil and debris. These systems include: vacuum systems, floating hose systems, oil bladder transfer systems, debris handling systems, bladder systems, incinerator systems, oil/water separator systems, steam generator systems, and material transfer systems.</p> <p>HF059 - BOOM MOORING SYSTEMS (DEEP WATER EXTENSION) This system is used to moor open ocean boom up to 600' allowing use of diversionary boom in deep water applications.</p> <p>HF062 - SUBMERSIBLE 2-6' HYDRAULIC PUMPING SYSTEMS This system allows the lightening of oil from tanks aboard ships whose transfer systems are inoperative. The pump size selected allows for insertion into various tanks from topside access hatches.</p> <p>HF063 - VESSEL OF OPPORTUNITY (VOSS) SKIMMING SYSTEMS The VOSS is a skimming system which can be used aboard any vessel with enough deck space to support the operating equipment. It allows skimming capability in situations where traditional skimmers may not be practicable, such as offshore or in extremely inclement weather. It may be a belt, disk, wire or rope mop type skimmer.</p> <p>HF064 - MODULAR BARGE SYSTEMS This system creates a temporary storage capability for recovered oil. Oil can be transferred from skimmers as well as oil bladders to further transfer to shoreside facilities or a large tank barge. Oil can also be transferred between oil bladders. This system also allows for deck spaces upon which to set up other support systems or barge sections to incorporate future support systems.</p> <p>HF066- DISPERSANT SYSTEMS These are various spraying systems used to widely dispense chemicals which break up oil so that it dissolves in the water column before reaching environmentally sensitive areas.</p> <p>HF830 - PRODUCTION ENGINEERING The development, review and approval of any production contract technical document in support of the CFC Conversion Program and the Pollution Prevention Afloat Installation Program. This documentation will include Technical Manuals, Preventive Maintenance Systems (PMS), Engineering Operational Sequencing Systems (EOSS), Level III production drawings, Provisional Technical Documentation (PTD), Program Support Data (PSD), and Allowance Parts Lists (APL). Also included is engineering support of design reviews.</p> <p>HFG8P - OIF GWOT SUPPLEMENTAL Systems procured are needed to replace OPA90 required East Coast offshore oil pollution equipment that has been repositioned to Bahrain ISO USCENCOM Consequence Management (CM) RFF 567 MOD 2 PTDO. The Navy is at risk of not meeting its legally required pollution response requirement on the east coast and is also at risk for suffering extensive environmental and public fallout due to the shortfall caused by the CENTCOM deployment. Replacement equipment will restore SUPSALV ESSM inventory to OPA 90 regulations. Currently, inventory level is not in accordance with OPA90 due to equipment currently deployed.</p>		

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS					Weapon System					DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					ID Code	P-1 LINE ITEM NOMENCLATURE POLLUTION CONTROL EQUIPMENT SUBHEAD NO. 81HF						
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
	<u>EQUIPMENT</u> <u>LOGISTICS</u>											
HF024	CFC-114 (R-114) AC CONVERSION		1.400	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HF038	FENDER SYSTEMS		0.600	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HF040	SUPPORT SYSTEMS		1.037	4	0.048	0.190	7	0.202	1.411	4	0.254	1.017
HF051	OIL BOOM SYSTEMS		4.143	5	0.440	2.200	3	0.395	1.185	5	0.441	2.207
HF055	SALVAGE SKIMMER SYSTEMS		0.343	1	0.239	0.239	0	0.000	0.000	0	0.000	0.000
HF057	LOGISTICS SUPPORT SYSTEMS		1.611	3	0.140	0.420	3	0.144	0.433	2	0.151	0.302
HF059	BOOM MOORING SYSTEMS		0.183	3	0.031	0.094	0	0.000	0.000	1	0.042	0.042
HF062	SUBMERSIBLE 6' HYD PUMP SYS		0.799	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HF063	VOSS SKIMMER SYSTEMS		0.661	2	0.440	0.880	2	0.453	0.906	1	0.467	0.467
HF064	MODULAR BARGE SYSTEMS		0.678	0	0.000	0.000	1	0.180	0.180	1	0.186	0.186
HF066	DISPERSANT SYSTEMS		0.000	0	0.000	0.000	2	0.024	0.047	0	0.000	0.000
HF830	PRODUCTION ENGINEERING		1.561	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HFG8P	OIF GWOT SUPPLEMENTAL		0.000	VAR	0.000	10.137	0	0.000	0.000	0	0.000	0.000
	LOGISTICS Subtotal		13.016			14.160			4.162			4.221

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)						Weapon System				DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						ID Code		P-1 LINE ITEM NOMENCLATURE POLLUTION CONTROL EQUIPMENT SUBHEAD NO. 81HF				
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
	<u>EXPEDITIONARY WARFARE</u>											
HF024	CFC-114 (R-114) AC CONVERSION		21.839	2	0.625	1.250	4	0.643	2.572	4	0.614	2.456
HF024	CFC-12(R-12)REFER CONVERSION		3.250	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HF030	<u>PWP</u> PLASTIC WASTE PROCESSORS		2.107	2	0.079	0.157	8	0.068	0.543	0	0.000	0.000
HF031	POLLUTION CONTROL EQUIPMENT FIELD CHANGES		3.647	0	0.000	0.953	0	0.000	0.000	0	0.000	0.000
HF830	PRODUCTION ENGINEERING		2.286	0	0.000	0.163	0	0.000	0.258	0	0.000	0.258
	EXPEDITIONARY WARFARE Subtotal		33.129			2.523			3.373			2.714
	<u>SURFACE WARFARE</u>											
HF024	CFC-114 (R-114) AC CONVERSION		50.371	8	0.625	5.000	14	0.543	7.602	6	0.555	3.330
HF024	CFC-12(R-12)REFER CONVERSION		8.800	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HF030	<u>PWP</u> PLASTIC WASTE PROCESSORS		3.509	6	0.071	0.423	18	0.081	1.452	16	0.091	1.450
HF031	POLLUTION CONTROL EQUIPMENT FIELD CHANGES		11.853	0	0.000	0.200	0	0.000	2.309	0	0.000	2.370
HF830	PRODUCTION ENGINEERING		4.184	0	0.000	0.814	0	0.000	0.760	0	0.000	0.323
	SURFACE WARFARE Subtotal		78.717			6.437			12.123			7.473

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)						Weapon System					DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						ID Code		P-1 LINE ITEM NOMENCLATURE POLLUTION CONTROL EQUIPMENT SUBHEAD NO. 81HF				
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
	<u>SUBMARINE WARFARE</u>											
HF024	CFC-12(R-12)REFER CONVERSION		5.050	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HF024	CFC-114 (R-114) AC CONVERSION		1.500	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HF030	<u>PWP</u> PLASTIC WASTE PROCESSORS		0.133	0	0.000	0.000	2	0.060	0.119	0	0.000	0.000
HF031	POLLUTION CONTROL EQUIPMENT FIELD CHANGES		0.526	0	0.000	0.135	0	0.000	0.280	0	0.000	0.000
HF830	PRODUCTION ENGINEERING		0.146	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	SUBMARINE WARFARE Subtotal		7.355			0.135			0.399			0.000
	<u>AIR WARFARE</u>											
HF024	CFC-114 (R-114) AC CONVERSION		23.700	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HF030	<u>PWP</u> PLASTIC WASTE PROCESSORS		1.606	15	0.070	1.050	3	0.071	0.213	0	0.000	0.000
HF031	POLLUTION CONTROL EQUIPMENT FIELD CHANGES		0.626	0	0.000	0.471	0	0.000	0.000	0	0.000	0.000
HF830	PRODUCTION ENGINEERING		0.772	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	AIR WARFARE Subtotal		26.704			1.521			0.213			0.000
	TOTAL EQUIPMENT		158.921			24.776			20.270			14.408

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)				Weapon System						DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code		P-1 LINE ITEM NOMENCLATURE POLLUTION CONTROL EQUIPMENT SUBHEAD NO. 81HF						
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
HF5IN	EXPEDITIONARY WARFARE		22.984	0	0.000	1.117	0	0.000	1.786	0	0.000	2.756
HF6IN	SURFACE WARFARE		32.471	0	0.000	5.425	0	0.000	5.253	0	0.000	7.828
HF7IN	SUBMARINE WARFARE		5.131	0	0.000	0.201	0	0.000	0.233	0	0.000	0.000
HF8IN	AIR WARFARE		41.874	0	0.000	0.549	0	0.000	0.299	0	0.000	0.000
	TOTAL INSTALLATION		102.460			7.292			7.571			10.584
TOTAL			261.381			32.068			27.841			24.992

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE POLLUTION CONTROL EQUIPMENT BLIN: 0935				SUBHEAD 81HF	
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										
HF040 SUPPORT SYSTEMS	4	0.048	WASHINGTON, D.C.	JUN-07	C/CPAF	GPC, VA	MAR-08	SEP-09	YES	
HF051 OIL BOOM SYSTEMS	5	0.440	WASHINGTON, D.C.	JUN-07	C/CPAF	GPC, VA	NOV-07	AUG-08	YES	
HF055 SALVAGE SKIMMER SYSTEMS	1	0.239	WASHINGTON, D.C.	JUN-07	C/CPAF	GPC, VA	JUL-08	OCT-09	YES	
HF057 LOGISTICS SUPPORT SYSTEMS	3	0.140	WASHINGTON, D.C.	JUN-07	C/CPAF	GPC, VA	FEB-08	JAN-09	YES	
HF059 BOOM MOORING SYSTEMS	3	0.031	WASHINGTON, D.C.	JUN-07	C/CPAF	GPC, VA	NOV-07	FEB-09	YES	
HF063 VOSS SKIMMER SYSTEMS	2	0.440	WASHINGTON, D.C.	JUN-07	C/CPAF	GPC, VA	FEB-08	FEB-09	YES	
HF024 CFC-114 (R-114) AC CONVERSION	2	0.625	NSWC PHILA, PA		FFP	YORK INT'L, PA	JAN-08	JAN-09	YES	
HF030 PWP PLASTIC WASTE PROCESSORS	2	0.079	NSWC, PHILA, PA		FFP	FLIGHTFAB, MD	JAN-08	MAY-08	YES	
HF024 CFC-114 (R-114) AC CONVERSION	8	0.625	NSWC PHILA, PA		FFP	YORK INT'L, PA	JAN-08	JAN-09	YES	
HF030 PWP PLASTIC WASTE PROCESSORS	6	0.071	NSWC PHILA, PA		FFP	FLIGHTFAB, MD	JAN-08	MAY-08	YES	
PLASTIC WASTE PROCESSORS	15	0.070	NSWC PHILA, PA		FFP	FLIGHTFAB, MD	JAN-08	MAY-08	YES	
FY 2009										
HF040 SUPPORT SYSTEMS	7	0.202	WASHINGTON, D.C.	JUN-07	C/CPAF	GPC, VA	MAY-09	NOV-10	YES	
HF051 OIL BOOM SYSTEMS	3	0.395	WASHINGTON, D.C.	JUN-07	C/CPAF	GPC, VA	DEC-08	JUN-10	YES	

CLASSIFICATION:				UNCLASSIFIED							
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE POLLUTION CONTROL EQUIPMENT BLIN: 0935				SUBHEAD 81HF		
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
HF057											
LOGISTICS SUPPORT SYSTEMS		3	0.144	WASHINGTON, D.C.	JUN-07	C/CPAF	GPC, VA	JUN-09	DEC-10	YES	
HF063											
VOSS SKIMMER SYSTEMS		2	0.453	WASHINGTON, D.C.	JUN-07	C/CPAF	GPC, VA	JUN-09	DEC-10	YES	
HF064											
MODULAR BARGE SYSTEMS		1	0.180	WASHINGTON, D.C.	JUN-07	C/CPAF	GPC, VA	JUN-09	DEC-10	YES	
HF066											
DISPERSANT SYSTEMS		2	0.024	WASHINGTON, D.C.	JUN-07	C/CPAF	GPC, VA	JUN-09	DEC-10	YES	
HF024											
CFC-114 (R-114) AC CONVERSION		4	0.643	NSWC PHILA, PA		FFP	YORK INT'L, PA	JAN-09	JAN-10	YES	
HF030 PWP											
PLASTIC WASTE PROCESSORS		8	0.068	NSWC PHILA, PA		FFP	FLIGHTFAB, MD	JAN-09	MAY-09	YES	
HF024											
CFC-114 (R-114) AC CONVERSION		14	0.543	NSWC PHILA, PA		FFP	YORK INT'L, PA	JAN-09	JAN-10	YES	
HF030 PWP											
PLASTIC WASTE PROCESSORS		18	0.081	NSWC PHILA, PA		FFP	FLIGHTFAB, MD	OCT-08	MAR-09	YES	
PLASTIC WASTE PROCESSORS		2	0.060	NSWC PHILA, PA		FFP	FLIGHTFAB, MD	OCT-08	MAR-09	YES	
PLASTIC WASTE PROCESSORS		3	0.071	NSWC PHILA, PA		FFP	FLIGHTFAB, MD	OCT-08	MAR-09	YES	
FY 2010											
HF040											
SUPPORT SYSTEMS		4	0.254	WASHINGTON, D.C.	JUN-07	C/CPAF	GPC, VA	APR-10	OCT-11	YES	
HF051											
OIL BOOM SYSTEMS		5	0.441	WASHINGTON, D.C.	JUN-07	C/CPAF	GPC, VA	APR-10	OCT-11	YES	
HF057											
LOGISTICS SUPPORT SYSTEMS		2	0.151	WASHINGTON, D.C.	JUN-07	C/CPAF	GPC, VA	APR-10	OCT-11	YES	
HF059											
BOOM MOORING SYSTEMS		1	0.042	WASHINGTON, D.C.	JUN-07	C/CPAF	GPC, VA	APR-10	OCT-11	YES	
HF063											

CLASSIFICATION:		UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE POLLUTION CONTROL EQUIPMENT BLIN: 0935				SUBHEAD 81HF		
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	
VOSS SKIMMER SYSTEMS HF064	1	0.467	WASHINGTON, D.C.	JUN-07	C/CPAF	GPC, VA	APR-10	OCT-11	YES		
MODULAR BARGE SYSTEMS HF024	1	0.186	WASHINGTON, D.C.	JUN-07	C/CPAF	GPC, VA	APR-10	OCT-11	YES		
CFC-114 (R-114) AC CONVERSION	4	0.614	NSWC, PHILA, PA		FFP	YORK INT'L, PA	JAN-10	JAN-11	YES		
CFC-114 (R-114) AC CONVERSION HF030 PWP	6	0.555	NSWC, PHILA, PA		FFP	YORK INT'L, PA	JAN-10	JAN-11	YES		
PLASTIC WASTE PROCESSORS	16	0.091	NSWC, PHILA, PA		FFP	FLIGHTFAB, MD	OCT-09	MAR-10	YES		

CLASSIFICATION: UNCLASSIFIED **May 2009**

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED HF024 CFC-114 (R-114) AC CONVERSION	TYPE MODIFICATION:	MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT
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DESCRIPTION/JUSTIFICATION:
 Modifies CFC-114 AC units.

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	294	98.8	10	6.3	18	10.2	10	5.8											
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER PRODUCTION ENG				1.0		1.0		0.6											
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST	273	131.8	19	6.5	10	5.9	18	9.9											
<u>TOTAL PROCUREMENT</u>		230.6		13.8		17.1		16.3											

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED CFC-114 (R-114) AC CONVERSION	MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: Months PRODUCTION LEADTIME: 12 Months

CONTRACT DATES:	FY 2008:	JAN-08	FY 2009:	JAN-09	FY 2010:	JAN-10
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DELIVERY DATES:	FY 2008:	JAN-09	FY 2009:	JAN-10	FY 2010:	JAN-11
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(\$ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
PRIOR YEARS	273	131.8	19	6.5														
FY 2008 EQUIPMENT					10	5.9												
FY 2009 EQUIPMENT							18	9.9										
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				FY 2011				FY 2012				FY 2013				FY 2014				TC	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	273	8	0	6	5	0	4	2	4	0	10	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Out	273	8	0	6	5	0	4	2	4	0	10	8	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 HF024 CFC-12(R-12)REFER CONVERSION	TYPE MODIFICATION:	MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT
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DESCRIPTION/JUSTIFICATION:
 MODIFIES CFC 12 REFRIGERATION UNITS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		

PROCUREMENT

MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT	560	17.1																
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST	544	31.4			11	1.0	3	0.5										
<u>TOTAL PROCUREMENT</u>		48.5				1.0		0.5										

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED CFC-12(R-12)REFER CONVERSION	MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: Months PRODUCTION LEADTIME: 9 Months

CONTRACT DATES:		FY 2008:		FY 2009:		FY 2010:	
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DELIVERY DATES:		FY 2008:		FY 2009:		FY 2010:	
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(\$ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$											Qty	\$
PRIOR YEARS	544	31.4			11	1.0	3	0.5												
FY 2008 EQUIPMENT																				
FY 2009 EQUIPMENT																				
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				FY 2011				FY 2012				FY 2013				FY 2014				TC	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	544	0	0	0	0	0	9	2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Out	544	0	0	0	0	0	9	2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Remarks:

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED HF030 PWP PLASTIC WASTE PROCESSORS	TYPE MODIFICATION:	MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT
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DESCRIPTION/JUSTIFICATION:
Machalt ECP 600, Mod 1 and SHIPALT 2027 backfit, installs improved Plastic Waste Processors.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT	162	7.4	23	1.6	31	2.3	16	1.5											
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST	152	5.6	30	0.8	32	0.7	8	0.2											
<u>TOTAL PROCUREMENT</u>		13.0		2.4		3.0		1.7											

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: PWP PLASTIC WASTE PROCESSORS
 MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 8 Months PRODUCTION LEADTIME: 6 Months

CONTRACT DATES: FY 2008: JAN-08 FY 2009: OCT-08 FY 2010: OCT-09

DELIVERY DATES: FY 2008: MAY-08 FY 2009: MAR-09 FY 2010: MAR-10

(\$ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
PRIOR YEARS	152	5.6	10	0.3														
FY 2008 EQUIPMENT			20	0.5	3	0.1												
FY 2009 EQUIPMENT					29	0.6	2	0.1										
FY 2010 EQUIPMENT							6	0.1										
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				FY 2011				FY 2012				FY 2013				FY 2014				TC	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	152	7	3	10	10	0	10	11	11	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Out	152	7	3	10	10	0	10	11	11	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Remarks:

CLASSIFICATION:		UNCLASSIFIED										
Exhibit P-40, BUDGET ITEM JUSTIFICATION										DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						P-1 LINE ITEM NOMENCLATURE SUBMARINE SUPPORT EQUIPMENT SUBHEAD NO. H1PB BLI: 0941						
Program Element for Code B Items 0204281N						Other Related Program Elements						
	Prior Years	ID Code		FY 2008	FY 2009	FY 2010						
Quantity	0			0	0	0						
COST (In Millions)	47.6	A		29.1	22.6	16.9						
SPARES COST (In Millions)	0.0	0		0.0	0.0	0.0						
PROGRAM DESCRIPTION/JUSTIFICATION:												
<p>PB001: SEAWOLF UPGRADES - Funding provided under this budget line is intended to provide technical refresh and upgrades to systems and equipment not supported by other NAVSEA program Offices. Specific items include: R-114 Controls, Escape Trunk Ball Screw Operator, Cathodic Protection, Hydraulic Power Plant, 2MC Announcing System, and DDS TACLAN. SEAWOLF Class Components designed in the late 1989 time frame are outdated, no longer supported by original equipment manufacturers (OEM) and are becoming more difficult to maintain.</p> <p>PB004: LABORATORY/FACILITIES UPGRADES/REFURBISHMENT - This program is for the procurement of special material required to implement the military high priority Submarine Silencing Program for operating nuclear submarines. The overall objectives and detail requirements for this program were established and defined in the CNO Specific Operational Requirements (SOR) 46-28 and NAVSEAINST C9073.2B. Only one program is in place to procure hardware systems for the purpose of measuring/monitoring, assessing, and improving the detection capability / reducing the delectability of our submarines.</p> <p>Consists of replacing or refurbishing broken, old obsolete acquisition and analysis hardware and software prior to equipment failure and subsequently jeopardizing ship's safety (e.g. ranging equipment) or the execution of acoustic trials and completion of trials program objectives outlined in CNO Specific Organizational Requirements 46-28 (assessment of ship's acoustic posture, etc.) and NAVSEAINST C9073.2B (Acoustics Surveys Policy). These planned refurbishments and replacements are especially critical in order to maintain the technological advancements recently made in the area of acoustic data acquisition under the Acoustic Measurement Facilities Program (AMFIP) East and West coasts (USNS HAYES and SEAFAC, respectively). Examples of these items include: hydrophone arrays, towed arrays, ranging and tracking systems, on-board array electronics, noise sources, shore power cables and data fiber optic cables, data analysis systems, workstations, data storage and retrieval, communications systems, analyzers, tape recorders, accelerometers, monitors, etc. These equipments are used on the test vessel, the listening platform, and at the laboratories. The TYCOMs have consistently rated the conduct of noise trials as a</p>												

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE SUBMARINE SUPPORT EQUIPMENT SUBHEAD NO. H1PB BLI: 0941	
<p>high priority funding requirement. [In FY97 and beyond, the East and West Coast requirements were merged into one funding line.] USNS Hayes will be replaced by South TOTO acoustic facility (STAFAC) in FY09. Development, procurement and installation of the STAFAC system is funded in FY06-FY08. In FY09-FY10, component upgrade procurement and installation is associated with existing SEAFAC facility. STAFAC and Laboratory open architecture hardware system is funded in accordance with the technical refresh plan.</p> <p>PB007: SSN/SSBN HM&E THRESHOLD MODERNIZATION - The TYCOMs have identified cooling issues with Electronic Auxiliary Fresh Water (EAFW) cooled Non-Propulsion Electronic Systems (NPES) and Chill Water plant capacity during warm water operations (seawater temperature above 85F). The most practical solution is to convert the EAFW system from seawater cooling to chill water cooling of the NPES. The current 150-ton R-114 chill water plants originally designed for 85F seawater produce only 90 tons of cooling in 95F seawater. Funding in this line will procure and install SHIPALTs 4351K and 4347K for the SSN 688 Class to improve Combat Systems cooling capability by upgrading the R-114 units and converting the EAFW system from sea-water cooling to chill-water cooling. This will allow installation of next generation Combat Systems upgrades without heat related system degradation and/or increased system failures.</p> <p>PBCA1: High Performance Brush - Metal Fiber Brushes are transitioning from a Science and technology effort to Integration into Shipboard Motor Generators starting in FY 2005. Funding provided will support completion of Test and Qualification for shipboard use, completion of final Ship Alteration Design, procurement of brushes and brush rigging, and scheduling and installation of the High Performance Brushes into the shipboard machinery.</p> <p>PB008: SSTG GOVERNORS Design, testing, procurement of a new SSTG governor control system for LOS ANGELES Class, OHIO Class and SEAWOLF Class submarines. Replaces obsolete SSTG governor components with industry supported components. These modifications address obsolescence issues and support extended service life of these platforms.</p> <p>PB5IN: FMP (INSTALLATION) - Installation of Warm Water Operation ShipAlts in SSN 688 Class submarines and installation of SSTG Governors in SSN 688, SSN 21 and SSBN/SSGN 726 Class submarines.</p>		

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS						Weapon System					DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						ID Code A		P-1 LINE ITEM NOMENCLATURE SUBMARINE SUPPORT EQUIPMENT SUBHEAD NO. H1PB				
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
	<u>EQUIPMENT</u>											
PB001	<u>SEAWOLF COMPONENT UPGRADES</u>											
	SEAWOLF COMPONENT UPGRADES	A	1.139	0	0.000	0.589	0	0.000	0.526	0	0.000	0.222
	SEAWOLF CLASS WEAPONS SHIPPING AND HANDLING	A	1.696	0	0.000	1.654	0	0.000	1.630	0	0.000	1.648
	SEAWOLF SPARE SHAFT	A	0.000	1	2.000	2.000	0	0.000	0.000	0	0.000	0.000
PB004	<u>FACILITIES / LAB UPGRADES</u>											
	ACOUSTIC RANGE REPLACEMENT EQUIPMENT	A	21.164	1	7.921	7.921	1	3.253	3.253	1	3.300	3.300
PB007	<u>SSN/SSBN HM&E THRESHOLD MODERNIZATION</u>											
	SHIPALT 4351 (R-114 UPGRADE) DEVELOPMENT	A	1.640	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	PRODUCTION ENGINEERING (SHIPALT 4351)	A	0.644	0	0.000	0.543	0	0.000	0.457	0	0.000	0.000
	INSTALLATION AND CHECKOUT SPARES (SHIPALT 4351)	A	0.780	0	0.000	0.000	0	0.000	0.744	0	0.000	0.000
	EAFW MODIFICATIONS (SHIPALT 4347)	A	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	R-114 UPGRADE PROCUREMENT(SHIPALT 4351)	A	9.726	3	0.986	2.959	4	0.989	3.957	0	0.000	0.000
PB008	<u>SSTG GOVERNORS</u>											
	DESIGN AND SHIPALT DEVELOPMENT	A	0.000	0	0.000	1.880	0	0.000	0.952	0	0.000	1.302
	LOS ANGELES AND OHIO CLASS PROCUREMENT	A	0.000	6	0.063	0.377	10	0.064	0.642	16	0.066	1.049
	SEAWOLF CLASS AND MOD 25 PROCUREMENT	A	0.000	0	0.000	0.000	0	0.000	0.000	1	0.437	0.437
PBCA1	<u>HIGH PERFORMANCE BRUSH PROGRAM</u>											
	HIGH PERFORMANCE BRUSHES	A	2.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	TOTAL EQUIPMENT		38.789			17.923			12.161			7.958

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)				Weapon System						DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code A		P-1 LINE ITEM NOMENCLATURE SUBMARINE SUPPORT EQUIPMENT SUBHEAD NO. H1PB						
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
<u>INSTALLATION</u>												
PB5IN	SHIPALT 4347K INSTALLATION - DSRA	A	0.380	2	0.703	1.406	2	0.869	1.738	2	0.732	1.463
PB5IN	SHIPALT 4347K INSTALLATION - DMP	A	2.275	2	0.354	0.708	2	0.358	0.716	2	0.377	0.754
PB5IN	SSTG GOVERNOR: LA/OHIO CLASS INSTALLATION	A	0.000	6	0.157	0.943	10	0.161	1.606	16	0.164	2.623
PB5IN	SSTG GOVERNOR: SEAWOLF/MOD25 INSTALLATION	A	0.000	0	0.000	0.000	0	0.000	0.000	1	0.273	0.273
PB5IN	SHIPALT 4351 AIT	A	0.180	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
PB5IN	SHIPALT 4351K INSTALLATION - DMP/EOH	A	2.240	2	0.898	1.796	4	1.000	3.998	4	0.848	3.393
PB5IN	SHIPALT 4351K INSTALLATION - DMP/EOH (MOD 25)	A	0.000	4	1.086	4.343	0	0.000	0.000	0	0.000	0.000
PB5IN	RECURRING DSA	A	0.821	0	0.000	0.467	0	0.000	0.300	0	0.000	0.300
PB5IN	SHIPALT 4351 ADVANCED PLANNING	A	2.151	0	0.000	1.200	0	0.000	1.633	0	0.000	0.000
PB5IN	SHIPALT 4347 ADVANCE PLANNING	A	0.603	0	0.000	0.280	0	0.000	0.400	0	0.000	0.087
PB5IN	SHAPEC SHIPALT 4347	A	0.125	0	0.000	0.066	0	0.000	0.067	0	0.000	0.016
	TOTAL INSTALLATION		8.775			11.209			10.458			8.909
	TOTAL		47.564			29.132			22.619			16.867
Comment: For ShipAlt 4351K, procurement and installation units refer to duplex units. SSN688 Class submarines R-114 air conditioning plants consists of two duplex units.												

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE SUBMARINE SUPPORT EQUIPMENT BLIN: 0941				SUBHEAD H1PB	
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										
PB001 SEAWOLF COMPONENT UPGRADES										
SEAWOLF SPARE SHAFT	1	2.000	NAVICP		OTHER	JORGENSEN FORGE, WA	SEP-08	MAY-10	YES	
PB004 FACILITIES / LAB UPGRADES										
ACOUSTIC RANGE REPLACEMENT EQUIPMENT	1	7.921	NSWC CARDEROCK		OTHER	PSI, VA	APR-08	JUL-08	YES	
PB007 SSN/SSBN HM&E THRESHOLD MODERNIZATION										
R-114 UPGRADE PROCUREMENT(SHIPALT 4351)	3	0.986	NSWC PHILADELPHIA		SS/FP	YORK INT'L YORK, PA	NOV-07	FEB-09	YES	
PB008 SSTG GOVERNORS										
LOS ANGELES AND OHIO CLASS PROCUREMENT	6	0.063	NAVSEA 02		WR	NSWC PHILADELPHIA, PA	NOV-07	MAR-08	YES	
PB5IN										
SHIPALT 4347K INSTALLATION - DSRA	2	0.703	NAVSEA 02		OTHER	UNKNOWN			YES	
SHIPALT 4347K INSTALLATION - DMP	2	0.354	NAVSEA 02		OTHER	UNKNOWN			YES	
SHIPALT 4351K INSTALLATION - DMP/EOH	2	0.898	NAVSEA 02		WR	NSWC PHILADELPHIA, PA			YES	
SHIPALT 4351K INSTALLATION - DMP/EOH (MOD 25)	4	1.086	NAVSEA 02		WR	NSWC PHILADELPHIA, PA			YES	
SSTG GOVERNOR: LA/OHIO CLASS INSTALLATION	6	0.157	NAVSEA 02		WR	NSWC PHILADELPHIA, PA			YES	
FY 2009										
PB004 FACILITIES / LAB UPGRADES										
ACOUSTIC RANGE REPLACEMENT EQUIPMENT	1	3.253	NSWC CARDEROCK		OTHER	PSI, VA	NOV-08	JUL-09	YES	
PB007 SSN/SSBN HM&E THRESHOLD MODERNIZATION										
R-114 UPGRADE PROCUREMENT(SHIPALT 4351)	4	0.989	NSWC PHILADELPHIA		SS/FP	YORK INT'L YORK, PA	NOV-08	FEB-10	YES	
PB008 SSTG GOVERNORS										
LOS ANGELES AND OHIO CLASS PROCUREMENT	10	0.064	NAVSEA 02		WR	NSWC PHILADELPHIA, PA	NOV-08	MAR-09	YES	
PB5IN										
SHIPALT 4347K INSTALLATION - DSRA	2	0.869	NAVSEA 02		OTHER	UNKNOWN			YES	
SHIPALT 4347K INSTALLATION - DMP	2	0.358	NAVSEA 02		OTHER	UNKNOWN			YES	
SHIPALT 4351K INSTALLATION - DMP/EOH	4	1.000	NAVSEA 02		WR	NSWC PHILADELPHIA, PA			YES	
SSTG GOVERNOR: LA/OHIO CLASS INSTALLATION	10	0.161	NAVSEA 02		WR	NSWC PHILADELPHIA, PA			YES	

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE SUBMARINE SUPPORT EQUIPMENT BLIN: 0941				SUBHEAD H1PB	
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 2010										
PB004 FACILITIES / LAB UPGRADES										
ACOUSTIC RANGE REPLACEMENT EQUIPMENT	1	3.300	NSWC CARDEROCK		OTHER	PSI, VA	NOV-09	JUL-10	YES	
PB008 SSTG GOVERNORS										
LOS ANGELES AND OHIO CLASS PROCUREMENT	16	0.066	NAVSEA 02		WR	NSWC PHILADELPHIA, PA	NOV-09	MAR-10	YES	
SEAWOLF CLASS AND MOD 25 PROCUREMENT	1	0.437	NAVSEA 02		WR	NSWC PHILADELPHIA, PA	NOV-09	MAR-10	YES	
PB5IN										
SHIPALT 4347K INSTALLATION - DSRA	2	0.732	NAVSEA 02		OTHER	UNKNOWN			YES	
SHIPALT 4347K INSTALLATION - DMP	2	0.377	NAVSEA 02		OTHER	UNKNOWN			YES	
SHIPALT 4351K INSTALLATION - DMP/EOH	4	0.848	NAVSEA 02			UNKNOWN			YES	
SSTG GOVERNOR: LA/OHIO CLASS INSTALLATION	16	0.164	NAVSEA 02		WR	NSWC PHILADELPHIA, PA			YES	
SSTG GOVERNOR: SEAWOLF/MOD25 INSTALLATION	1	0.273	NAVSEA 02		WR	NSWC PHILADELPHIA, PA			YES	
Remarks:										
1. FOR PB004 - CONTRACT METHODS LISTED AS "OTHER" ARE COST PLUS FIXED FEE (CPFF) CONTRACTS.										
2. For PB001 - In FY08 "Contract Method & Type" is marked as "Other" since this information is not yet known.										
3. FOR SHIPALT 4347K and SHIPALT 4351K - "Contractor and Location" is marked as UNKNOWN because installation of these SHIPALTS will be accomplished during scheduled availabilities: DMPs, EOHs, SRAs, DSRAs. The location of these availabilities are in Naval Shipyards, Private Shipyards or Submarine bases. The "Contract Method and Type" is listed as "OTHER" because the method of contracting will depend on whether the installation is accomplished by private shipyard personnel or personnel from a government repair facility.										
4. Contract procurement of SHIPALT 4351 equipment is Sole Source (SS), the York is only qualified vendor for submarine air conditioning plants.										

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED PB007 SSN/SSBN HM&E THRESHOLD MODERNIZATION EAFW MODIFICATIONS (SHIPALT 4347)	TYPE MODIFICATION: K ALT	MODIFICATION TITLE: SUBMARINE SUPPORT EQUIPMENT
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DESCRIPTION/JUSTIFICATION:
 PIPING AND SYSTEMS MODIFICATIONS TO SUPPLY CHILLED WATER TO THE #1 ELECTRONICS AUXILIARY FRESHWATER (EAFW) HEAT EXCHANGER
 NOTE: THE INSTALLATION INCLUDES MINOR PARTS LIKE PIPE, HANGERS, VALVES, ETC., THAT ARE ALL UNDER THE OMN/OPN THRESHOLD AND ARE NOT INDIVIDUALLY QUANTIFIABLE.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT	10																		10
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER - SHAPEC		0.1		0.1		0.1													0.3
OTHER - ADVANCE PLANNING		0.6		0.3		0.4		0.1											1.4
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST	10	2.7	4	2.1	4	2.5	4	2.2										22	9.5
<u>TOTAL PROCUREMENT</u>		3.4		2.5		3.0		2.3											11.2

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED PB007 SSN/SSBN HM&E THRESHOLD MODERNIZATION R-114 UPGRADE PROCUREMENT(SHIPALT 4351)	TYPE MODIFICATION: K ALT	MODIFICATION TITLE: SUBMARINE SUPPORT EQUIPMENT
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DESCRIPTION/JUSTIFICATION:

The TYCOMs have identified issues with Electronic Auxiliary Fresh Water (EAFW) cooled Non-Propulsion Electronic Systems (NPES) and Chill Water plant capacity during warm water operations (seawater temperature above 85F). The current 150 ton R-114 chill water plants originally designed for 85F seawater produce only 90 tons in 95F seawater. This alteration converts the SSN688 R-114 Air Conditioning plant to microprocessor control, performs baseline testing, and completes the design of a variable geometry diffuser (VGD) compressor. This ShipAlt is separated into two parts that upgrade the port and starboard R-114 plants.

NOTE: FOR THE QUANTITIES LISTED ON THIS EXHIBIT, ONE SHIPSET EQUALS 2 DUPLEX UNITS

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT	9	9.7	3	3.0	4	4.0												16	16.7
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT		0.8				0.8													1.6
OTHER - ADVANCE PLANNING		2.1		1.2		1.5													4.8
OTHER - PRODUCTION ENGINE		0.6		0.4		0.5													1.5
OTHER - AIT		0.2																	0.2
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST	2	2.2	6	6.1	4	4.0	4	3.3										16	15.6
<u>TOTAL PROCUREMENT</u>		15.6		10.7		10.8		3.3											40.4

CLASSIFICATION: UNCLASSIFIED **May 2009**

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: SSN/SSBN HM&E THRESHOLD MODERNIZATION R-114 UPGRADE PROCUREMENT(SHIPALT 4351) MODIFICATION TITLE: SUBMARINE SUPPORT EQUIPMENT

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: **K ALT**

ADMINISTRATIVE LEADTIME: **3 Months** PRODUCTION LEADTIME: **12 Months**

CONTRACT DATES: FY 2008: NOV-07 FY 2009: NOV-08 FY 2010:

DELIVERY DATES: FY 2008: FEB-09 FY 2009: FEB-10 FY 2010:

(\$ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010		FY 2011										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS	2	2.2	6	6.1	1	1.0													9	9.3
FY 2008 EQUIPMENT					3	3.0													3	3.0
FY 2009 EQUIPMENT							4	3.3											4	3.3
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												TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4									
In	4	0	5	0	0	0	3	0	0	0	4	0	0									16
Out	2	0	2	2	2	0	0	0	4	0	2	2	0									16

Remarks: Installation of this ShipAlt is accomplished during scheduled availabilities. The availability start dates are subject to change due to Fleet operational requirements and ship's operational schedules.

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED PB008 SSTG GOVERNORS LOS ANGELES AND OHIO CLASS PROCUREMENT	TYPE MODIFICATION: K-ALT	MODIFICATION TITLE: SUBMARINE SUPPORT EQUIPMENT
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DESCRIPTION/JUSTIFICATION:
SHIPALT REPLACES SSTG GOVERNORS IN OHIO AND LOS ANGELES CLASS SUBMARINES.
THE SSTG GOVERNORS IN THESE CLASSES OF SHIPS ARE OBSOLETE AND CONTAIN ELECTRONIC COMPONENTS THAT ARE NO LONGER SUPPORTED BY INDUSTRY.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT			6	0.4	10	0.6	16	1.0										32	2.0
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST			6	0.9	10	1.6	16	2.6										32	5.1
<u>TOTAL PROCUREMENT</u>				1.3		2.2		3.6											7.1

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: SSTG GOVERNORS LOS ANGELES AND OHIO CLASS PROCUREMENT
 MODIFICATION TITLE: SUBMARINE SUPPORT EQUIPMENT

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: K-ALT

ADMINISTRATIVE LEADTIME: 1 Months PRODUCTION LEADTIME: 5 Months

CONTRACT DATES: FY 2008: NOV-07 FY 2009: NOV-08 FY 2010: NOV-09

DELIVERY DATES: FY 2008: MAR-08 FY 2009: MAR-09 FY 2010: MAR-10

(\$ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010		FY 2011										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS																					
FY 2008 EQUIPMENT			6	0.9																6	0.9
FY 2009 EQUIPMENT					10	1.6														10	1.6
FY 2010 EQUIPMENT							16	2.6												16	2.6
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	0	0	6	0	0	0	10	0	0	0	16	0	0									32
Out	0	0	0	2	4	0	0	5	5	0	0	8	8									32

Remarks:

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED PB008 SSTG GOVERNORS SEAWOLF CLASS AND MOD 25 PROCUREMENT	TYPE MODIFICATION: K-ALT	MODIFICATION TITLE: SUBMARINE SUPPORT EQUIPMENT
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DESCRIPTION/JUSTIFICATION:
SHIPALT WILL REPLACE SSTG GOVERNORS IN SEAWOLF CLASS AND MOD25 LOS ANGELES CLASS SUBMARINES.
THE SSTG GOVERNORS IN THESE SUBMARINES ARE OBSOLETE AND CONTAIN ELECTRONIC COMPONENTS THAT ARE NO LONGER SUPPORTED BY INDUSTRY.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT							1	0.4										1	0.4
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST							1	0.3										1	0.3
<u>TOTAL PROCUREMENT</u>								0.7											0.7

CLASSIFICATION:

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET P-40						DATE: May 2009					
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY; BA-1: Ships Support Equipment						P-1 ITEM NOMENCLATURE VIRGINIA Class SSN Support Equipment BLI: 094200					
Program Element for Code B Items:						Other Related Program Elements RDT&E PE 0604558N / SCN PE 0204281N					
	Prior Years	ID Code	FY 2008	FY 2009	FY 2010						
QUANTITY											
COST (In Millions)	\$359.0	A	\$145.4	\$182.7	\$103.2						
SPARES COST (In Millions)	\$8.7	A	\$2.9	\$1.3	\$1.2						
<p>This provides a wide range of material required to operate, test , support and maintain the viability of VIRGINIA SSN774 Class ships. The "Major Shore Spares" component includes rotatable pool and insurance spares. Rotatable pool assets support planned maintenance during scheduled availabilities by decreasing equipment turn-around time/availability duration. Rotatable pool program equipment includes the high pressure air compressor, various pump/motor assemblies, radar mast, ventilation fans and Thinline Towed Array components and others. Insurance spares (which include a main propulsion unit, ship service turbine generator and propulsors) potentially support unplanned equipment replacement due to a casualty or emergent maintenance requirement. Insurance spares availability reduces the likelihood an operating ship will be materially impaired for an undetermined period or the construction schedule extended.</p> <p>This funding line also includes upgrading the afloat acoustic system required to conduct TECHEVAL/OPEVAL satisfactorily, efficiently and with minimal risk of equipment failure. Some Test and Evaluation (T&E) Measuring Equipment upgrades to underwater acoustic ranges are necessary to support class acoustic profiles T&E. Also included is the Vertical Launch System (VLS) Peculiar Support Equipment (PSE) (Primarily All-up Round Simulators (AURS)/All-up Round (AUR) Ballast Cans) necessary to conduct TECHEVAL/OPEVAL and provide ballast for ship operation.</p> <p>Components necessary to initiate maintenance and support activities are also included under this line. The Intermediate (I) and Depot (D) level support and test equipment (e.g., sail raceway, cofferdams, etc.) necessary to conduct I and D level repairs is provided for here. Finally, it includes selected VIRGINIA-unique test equipment for maintenance and new component evaluation/checkout.</p> <p>Two primary VIRGINIA Class trainers are included in this funding line. The Exterior Communications Systems (ECS) trainer supports training of communications personnel and the VIRGINIA Ship Control Operator Trainers (VSCOT) support training sites for submerged ship handling and casualty control operations team training and certification. Other trainers included: Weapons Handling Trainer updates and modifications to the Submarine Multi Mission Team Trainer (SMMTT).</p> <p>Funding for Special Operations Forces (SOF) provides for Reconfigurable Berthing Structures, Lockout Trunk (LOT) items, recompression equipment and other items required for SOF certification.</p> <p>The wireless LAN provides a shipwide (forward of the reactor compartment) intranet (NIPRNET) that significantly enhances the quality of work by facilitating electronic correspondence, personnel data management, collaborative services, interactive whiteboard, multi-user chat and access to these sites: FTMP/NTMP, CHCS , prescriptions, MYPAY - DFAS, EPMAC, BUPERS, EMAIL, FTSC/LANT, SUBMEPP and NKO.</p> <p>Maintenance Planning System funds will be used to help ship programs identify, plan and execute maintenance activities as well as improve efficiently at all levels (that performed by ship's force as well as organizational/depot level) by creating a set of tools that provide a robust, disconnected and comprehensive training and maintenance solution that delivers dynamic content. This set of tools and the associated ship-to-shore data environment will reduce OM&N funding over time. This will be fielded as part of the Non-Tactical Data Processing System (NTDPS) to VIRGINIA submarines.</p> <p>Finally, the continuous ship upgrades necessary to maintain class viability of the earlier ships are included in this funding line. This is particularly important for Commercial Off the Shelf (COTS) Technology Refreshment and Technology Upgrades for Non-Propulsion Electronic Systems. The class level of modernization, and capability rests on available resources. Provides for the transition to a common Navy electronic chart distribution system for the Submarine Force called the Voyage Management System (VMS).</p>											

CLASSIFICATION:

UNCLASSIFIED

WEAPONS SYSTEM COST ANALYSIS P-5				Weapon System				DATE: May 2009								
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-1: Ships Support Equipment				ID Code A	P-1 ITEM NOMENCLATURE/SUBHEAD VIRGINIA CLASS SSN Support Equipment BLI: 094200 / H1RC											
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				
H1RC01	VIRGINIA Class SOF Support	A	1,202	Various		725	Various		155							
H1RC02	Test & Evaluation (T&E) Measuring Equipment	A	15,500													
H1RC03	VLS Peculiar Support Equipment	A	13,707	Various		3,042	Various		1,350	Various		310				
H1RC04	VA Ship Control Operator (VSCOT) Trainer	A	10,000													
H1RC05	Exterior Communication System (ECS) Trainer	A	5,043													
H1RC06	Major Shore Spares (General)	A	71,836	Various		38,325	Various		34,109	Various		37,180				
H1RC07	Remaining VA Class Trainers	A	27,792													
H1RC08	Intermediate & Depot (I&D) Support Equipment	A	13,052	Various		12,447	Various		11,473	Various		6,531				
H1RC09	West Coast SEAFAC	A	28,170													
H1RC10	Voyage Management System	A	4,435	Various		1,023	Various		1,580	Various		916				
H1RC11	VIRGINIA Class Support Equipment	A	12,185									525				
H1RC13	Tech Insertion, Tech Refresh & Upgrades	A	144,902	Various		89,803	Various		133,997	Various		53,077				
H1RC14	Survival Equipment for Sea Riders	A														
H1RC16	Ship Control Tact. Lab Set for Redesign Config.	A									1	4,614	4,614			
H1RC17	Modern Legacy Crypto System	A	3,000													
SCA1R	Shipboard Wireless Mobile Computing (NTDPS Wireless LAN)	A	7,200													
SCA2R	VA Maintenance Planning System Technology	A	1,000													
			359,024			145,365			182,664			103,153				

CLASSIFICATION:

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			DATE: May 2009		
B. APPROPRIATION/BUDGET ACTIVITY BA-1: SHIPS SUPPORT EQUIPMENT		C. P-1 ITEM NOMENCLATURE VIRGINIA CLASS SSN Support Equipment BLI: 094200							SUBHEAD HIRC	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2008										
VIRGINIA Class SOF Support (Seal Team Portable Berthing)	Various	725	NAVSEA	Feb-08	WR	NUWC Keyport	Mar-08	Dec-08	Yes	NA
VLS Peculiar Support Equipment (VLS-PSE)										
AUR Ballast Cans Acq. Life Cycle Supt.	55	35	NUWC	Oct-07	SS/FP OPTION	Penn Iron Works, Sinking Springs, PA	Dec-07	Apr-09	Yes	Oct-04
AURES Modernization MK 112/Dyn. Load Banks	20	55	NUWC	Oct-07	WR	NUWC Newport	Dec-07	Apr-09	Yes	Oct-04
Major Shore Spares										
Insurance Spares										
Propulsor - Spare Duct No. 1 Castings	1	47	NAVSEA	Nov-05	WR	Naval Foundry & Propeller Ctr., Phila., PA	Jan-08	Mar-08	Yes	NA
Propulsor - Spare No. 1 - Hdw. and Eng. Svcs.	1	818	NAVSEA	Nov-05	WR; SS/CPIF	NSWCDD, Beth./ MD, PTI Bridgeville, PA / EB Corp, Groton, CT	Nov-07	Jul-08	Yes	NA
Propulsor - Spare ILS Parts	1	200	NAVSEA	Nov-06	SS/CPIF/Option	BAE Systems LP, Minneapolis, MN	Oct-07	Oct-10	Yes	NA
Propulsor - Spare Ropeguard No 2	1	800	NAVSEA	Nov-06	SS/CPIF/Option	BAE Systems LP, Minneapolis, MN	Oct-07	Oct-10	Yes	NA
Propulsor - Spare Tailcone No. 3	1	1,700	NAVSEA	Aug-07	SS/CPIF	BAE Systems LP, Minneapolis, MN	Nov-07	Oct-10	Yes	NA
Propulsor - Spare Rotor No 2	1	6,750	NAVSEA	Aug-07	WR	Naval Foundry & Propeller Ctr., Phila., PA	Oct-07	Oct-11	Yes	NA
Propulsor - Spare Hdw. and Eng. Svcs.	1	1,200	NAVSEA	Nov-05	WR; SS/CPIF/Option	NSWCDD, Beth./ MD, PTI Bridgeville, PA	Oct-07	Jan-07	Yes	NA
Photonics Mast	Various	12,148	NAVSEA	Oct-07	SS/FP	Kollmorgen, Northampton, MA	Jan-08	Jan-09	No	TBD
Rotatable Pool										
Miscellaneous (Pumps/Motors/Tanks)	Various	3,560	NAVSEA	Oct-07	SS/CPIF	Electric Boat, Groton, CT	Jan-08	Aug-08	Yes	Dec-04
Main Propulsion Shaft	2	4,456	NAVSEA	Nov-07	SS/CPIF	Electric Boat, Groton, CT	Feb-08	Aug-10	Yes	Oct-04
HPAC	2	722	NAVSEA	Sep-07	SS/CPIF	Electric Boat, Groton, CT	Dec-07	Dec-08	Yes	Sep-04
LP Blowers	Various	746	NAVSEA	May-07	SS/CPIF	Electric Boat, Groton, CT	Jan-08	May-09	Yes	Oct-04
Intermediate & Depot (I&D) Support Equipment										
Cofferdams, ASB, Radar, HFCA, Propulsor, Array Tools	Various	7468	NAVSEA	Jan-08	SS/FP	Electric Boat, Groton, CT	Feb-08	Jan-09	Yes	NA
MBT Flood Hole Covers	Various	357	NAVSEA	Jan-08	SS/FP	Oceaneering, Chesapeake, VA	Feb-08	Jan-09	Yes	NA
SPS Cable Hydro Fixture and Support Kits	1	149	NAVSEA	Feb-08	SS/FP	GPC, Williamsburg, VA	Mar-08	Feb-09	Yes	NA
ECL Handling Equipment	Various	371	NAVSEA	Mar-08	WR	NUWC Newport, RI	Apr-08	Mar-09	Yes	NA
Hull, ER, Pump, Valve, Array, Bow, and Aux Equip Tools	Various	3474	NAVSEA	Jun-08	SS/FP	Electric Boat, Groton, CT	Jul-08	Jun-09	Yes	NA
Cradles, AMCATS, Firing Valve Tools	Various	458	NAVSEA	Jun-08	SS/FP	NUWC Newport, RI	Jul-08	Jun-09	Yes	NA
Thrust Bearing and Arc Fault Tools	Various	170	NAVSEA	Jul-08	SS/FP	Electric Boat, Groton, CT	Aug-08	Jul-09	Yes	NA
Voyage Management System										
VMS Radar Kit Procurement	1	304	NAVSEA	Jul-07	SS/FP	NGES Sperry Marine, Charlottesville, VA	Apr-08	Jun-09	No	NA
VMS Radar Kit Installation	1	120	NSWC VAB	Dec-07	WR	NSWC, Virginia Beach, VA	Jan-08	NA	NA	NA
ECDU Kit Installation, Certification & Support	1	490	SPAWAR	Dec-07	WR	SPAWAR System Center, Charleston, SC	Jan-08	Jun-09	No	NA
ECDU Kit Design	1	109	SPAWAR	Dec-07	WR	SPAWAR System Center, Charleston, SC	Jan-08	Jun-09	No	NA

CLASSIFICATION:

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)				Weapon System				DATE: May 2009		
B. APPROPRIATION/BUDGET ACTIVITY BA-1: SHIPS SUPPORT EQUIPMENT		C. P-1 ITEM NOMENCLATURE VIRGINIA CLASS SSN Support Equipment BLI: 094200						SUBHEAD H1RC		
Cost Element/ FISCAL YEAR		UNIT COST (000)	QUANTITY LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2008										
Modernization & Technology Upgrades										
HM&E Tech Refresh	Various	1,173	NAVSEANUWC KPT	Oct-07	SS/CP/IF	Electric Boat Corp./NUWC, Keyport, WA	Dec-07	Dec-08	Yes	Jan-08
NPES Tech Refresh	Various	613	NAVSEANUWC KPT	Oct-07	SS/CP/IF	Electric Boat Corp./NUWC, Keyport, WA	Jan-08	Jan-09	Yes	Jan-08
NTDPS (ULAN + SW Enclave + PODS + Upgrades)	Various	4,880	NAVSEA	Aug-07	SS/FP	Electric Boat, Groton, CT	Nov-07	Jun-08	Yes	NA
VA CCS Tech Refresh for ANBYG-1	Various	13,652	NAVSEA	Jul-07	SS/CP-IF/AF	LM Manassas/Raytheon, Portsmouth	Nov-07	Jun-09	No	NA
ARCI Upgrades	Various	429	NAVSEA	Aug-07	SS/CP-IF/AF	Lockheed Martin, Manassas, VA	Nov-07	Jul-09	No	NA
VA AN/BVS-1 Patriot (Auto Range Finder)	1	550	NAVSEA	Jan-08	WR	NAWC, China Lake, CA	Apr-08	Mar-09	No	NA
VA S/CCA & Ship NR Eng. for Commonality w/ Backfit	Various	11,938	NAVSEA	Jul-07	SS/CP-IF/AF	LM Manassas/Raytheon, Portsmouth	Nov-07	Jan-09	No	NA
Photonics Backfit	1	1,679	NAVSEA	Nov-07	SS/FP	GD-AIS, Fair Lakes, VA	Mar-08	Jan-09	Yes	NA
VA AN/BLO-10 Modernization IO/EA Upgrade	1	11,752	NSSSO	Feb-08	SS/FP	Lockheed Martin, Syracuse, NY	May-08	May-10	Yes	NA
VA AN/BLO-10 Modernization Galley/PSR/LPI/AIS Block Upgrade	1	564	NSSSO	May-08	SS/FP	Lockheed Martin, Syracuse, NY	Aug-08	Aug-09	Yes	NA
VA AN/BVS-1 Field Change Program	1	860	NAVSEA	Nov-07	SS/FP	Kollmorgen, Northampton, MA	Mar-08	Jan-09	Yes	NA
Tech Insertion - Photonics Mast Workstation Reader	Various	351	NAVSEA	Feb-08	SS/FP	Kollmorgen, Northampton, MA	Apr-08	Apr-09	Yes	NA
Engineering Development Model 2 Refurbishment	Various	537	NAVSEA	Feb-08	SS/FP	Kollmorgen, Northampton, MA	Apr-08	Apr-09	Yes	NA
Photonics Block III Lab and EQT Hardware Procurement	Various	4,800	NAVSEA	Feb-08	SS/FP	Kollmorgen, Northampton, MA	Apr-08	Apr-09	Yes	NA
Photonics End-Item Eng. Spt. (Kits, Spares, etc.)	Various	2,315	NAVSEA	Feb-08	SS/FP	Kollmorgen, Northampton, MA	Apr-08	Apr-09	Yes	NA
Photonics Logistics Support	Various	715	NAVSEA	Feb-08	SS/FP	Kollmorgen, Northampton, MA	Apr-08	Apr-09	Yes	NA
ICADF	Various	800	NSSSO	Aug-07	SS/FP	Lockheed Martin, Syracuse, NY	Nov-07	Jun-09	Yes	NA
VA AN/BLO-10 System Upgrades	Various	825	NUWC, Newport	Oct-07	WR	NUWC, Newport, RI	Dec-07	Dec-08	No	NA
VA Class GCCS-MIT-21	1	90	SPAWAR	Dec-07	WR	SPAWAR System Center, Charleston, SC	Jan-08	Jun-09	No	NA
S/W License Procurement to Support NTDPS	1	4,077	NAVSEA	Nov-07	SS/CP-IF/AF (SBIR)	Progeny Systems, Manassas, VA	Jan-08	Mar-08	Yes	NA
CWITT	Various	800	SPAWAR	Mar-08	WR	SPAWAR, San Diego, CA	Apr-08	May-08	No	NA
System Level Activities PSA/Post PSA	Various	2,332	NAVSEA	Jun-07	SS/CP/IF	Electric Boat, Groton, CT	Nov-07	Feb-08	Yes	NA
VA Block III Modernization Design	Various	13,060	NAVSEA	Oct-07	SS/CP/IF	Electric Boat, Groton, CT	Dec-07	Dec-08	Yes	NA
Information Assurance Tool Kit	1	61	NAVSEA	Jul-07	SS/CP/IF	Progeny Systems, Manassas, VA	Jan-08	Jan-09	Yes	NA
Common Weapons Launcher Platform Support	Various	218	NAVSEA	Oct-07	WR	NUWC, Newport, RI	Nov-07	Nov-08	Yes	NA
SAWS (CSA Mk2 774-6 ECIs)	Various	35	NAVSEA	Sep-07	WR	NSWC, CRANE, IN	Oct-07	Oct-08	Yes	NA
VA Class Thin Line Towed Array Handling System TB-23 Temp ECI	Various	207	NAVSEA	Sep-07	SS/CP/IF	Electric Boat, Groton, CT	Dec-07	Dec-08	Yes	NA
AN/UUQ-70 ShipSets Upgrade	Various	158	NAVSEA	May-08	SS/CP/IF	Electric Boat, Groton, CT	Aug-08	Aug-09	Yes	NA
Modern Legacy Crypto	Various	2,929	NAVSEA	Aug-07	SS/CP/IF	Electric Boat, Groton, CT	Nov-07	Apr-08	Yes	NA
Navigation DSVL Corrections	Various	565	SPAWAR	Dec-07	WR	SPAWAR System Center, Charleston, SC	Jan-08	Jun-08	No	NA
VA CI Air Turbine Pump Sprague Clutch	Various	88	NAVSEA	Oct-07	WR	NUWC Keyport	Nov-07	Jan-08	No	NA
Weapons Cradle Upgrade	24	125	NAVSEA	Dec-07	SS/CP/IF	Electric Boat, Groton, CT	Jan-08	Jan-08	Yes	NA
VLRA Battery Backfit	Various	2,000	NAVSEA	Feb-08	SS/CP/IF	Electric Boat, Groton, CT	Aug-08	Dec-08	Yes	NA
Alt. Pkg. for MPU Overspeed Protection Effort	Various	1,742	NAVSEA	Jun-07	SS/CP/IF	Electric Boat, Groton, CT	Jan-08	Jul-08	Yes	Apr-07

CLASSIFICATION:

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			DATE: May 2009		
B. APPROPRIATION/BUDGET ACTIVITY BA-1: SHIPS SUPPORT EQUIPMENT		C. P-1 ITEM NOMENCLATURE VIRGINIA CLASS SSN Support Equipment BLI: 094200							SUBHEAD HIRC	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2009										
VIRGINIA Class SOF Support	Various	155	NAVSEA	Feb-09	WR	NUWC Keyport	Mar-09	Sep-09	Yes	NA
VLS Peculiar Support Equipment (VLS-PSE)										
AUR Ballast Cans Acq. Life Cycle Supt.	27	35	NUWC	Oct-08	SS/FP OPTION	Penn Iron Works, Sinking Springs, PA	Jan-09	Apr-09	Yes	Oct-04
AURES Modernization MK 112/Dyn. Load Banks	7	56	NUWC	Oct-08	WR	NUWC Newport	Jan-09	Apr-09	Yes	Oct-04
Major Shore Spares										
Miscellaneous (Pumps/Motors/Drive Assemblies)	Various	740	NAVSEA	Oct-08	SS/CPIF	Electric Boat, Groton, CT	Jan-09	Oct-09	Yes	Oct-04
Mk21 Air Turbine Pump (ATP) Components	Various	10,560	NAVSEA	Oct-08	WR	NUWC Newport	Dec-08	Nov-09	Yes	Jul-05
Photonics Masts	Various	13,491	NAVSEA	Oct-08	SS/CPIF	Kollmorgen, Northampton, MA	Mar-09	Mar-10	Yes	NA
Propulsor - Spare No. 1 Castings	1	1,700	NAVSEA	Aug-08	WR	Naval Foundry & Propeller Ctr., Phila., PA	Nov-08	Oct-10	Yes	NA
Propulsor - Spare Hdw. and Eng. Svcs.	1	3,700	NAVSEA	Aug-08	WR; SS/CPIF	NSWCDD, Beth./ MD, PTI Bridgeville, PA / EB Corp, Groton, CT	Nov-08	Sep-09	Yes	NA
Propulsor - Spare ILS Parts	1	300	NAVSEA	Aug-08	SS/CPIF	BAE Systems LP, Minneapolis, MN	Nov-08	Oct-10	Yes	NA
Rotatable Pool										
Miscellaneous (Pumps/Motors/Accumulators)	Various	3,618	NAVSEA	Oct-08	SS/CPIF	Electric Boat, Groton, CT	Jan-09	Jun-09	Yes	Dec-04
Intermediate & Depot (I&D) Support Equipment										
VLS Loading Platform	1	441	NAVSEA	Dec-08	WR	NUWC Newport, RI	Jan-09	Jan-10	Yes	NA
Bow Dome and HFCA Tools	Various	1,287	NAVSEA	Jan-09	SS/FP	Electric Boat, Groton, CT	Feb-09	Feb-10	Yes	NA
MSW, ER, Valve, Pump Tools	Various	814	NAVSEA	Feb-09	SS/FP	Electric Boat, Groton, CT	Mar-09	Mar-10	Yes	NA
SPS Hydro Fixture	1	105	NAVSEA	Feb-09	SS/FP	GPC, Williamsburg, VA	Mar-09	Mar-10	Yes	NA
RBP Tools	Various	318	NAVSEA	Mar-09	SS/FP	Oceaneering, Chesapeake, VA	Apr-09	Apr-10	Yes	NA
Propulsor, Aux. Equip., Mast, LWVAA, and ICCP Tools	Various	8,508	NAVSEA	Apr-09	SS/FP	Electric Boat, Groton, CT	May-09	May-10	Yes	NA
Voyage Management System										
VMS Radar Kit Procurement	1	198	NAVSEA	Jul-08	SS/FP	NGES Sperry Marine, Charlottesville, VA	Jan-09	Jun-10	No	NA
VMS Radar Kit Installation	1	56	NSWC VAB	Dec-08	WR	NSWC, Virginia Beach, VA	Jan-09	NA	NA	NA
ECDU Kit Procurement & Certification	1	115	SPAWAR	Dec-08	WR	SPAWAR System Center, Charleston, SC	Jan-09	Jun-10	No	NA
ECDU Kit Installation	1	653	MARMC, Atlantic	Oct-08	WR	MARMC, Atlantic, Norfolk, VA	Nov-08	NA	NA	NA
ECDU Kit Design	1	558	SPAWAR	Dec-08	WR	SPAWAR System Center, Charleston, SC	Jan-09	Jun-10	No	NA
Modernization & Technology Upgrades										
HM&E Tech Refresh	Various	5,980	NAVSEA/NUWC KPT	May-09	SS/CPIF	Electric Boat Corp./NUWC, Keyport, WA	Aug-09	Aug-10	Yes	Jan-09
NPES Tech Refresh	Various	3,500	NAVSEA/NUWC KPT	May-09	SS/CPIF	Electric Boat Corp./NUWC, Keyport, WA	Aug-09	Aug-10	Yes	Jan-09
NTDPS (ULAN + SW Enclave + PODS + Upgrades)	Various	3,767	NAVSEA	Aug-08	SS/FP	Electric Boat, Groton, CT	Feb-09	Jun-09	Yes	NA

UNCLASSIFIED

CLASSIFICATION:

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			DATE: May 2009		
B. APPROPRIATION/BUDGET ACTIVITY BA-1: SHIPS SUPPORT EQUIPMENT		C. P-1 ITEM NOMENCLATURE VIRGINIA CLASS SSN Support Equipment BLI: 094200							SUBHEAD H1RC	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2009										
VA AN/BVS-1 Patriot (Auto Range Finder)	Various	3,745	NAVSEA	Jan-09	WR	NAWC, China Lake, CA	Apr-09	Mar-10	No	NA
VA CCS Tech Refresh for AN/BYG-1	Various	19,929	NAVSEA	Jul-08	SS/CP-IF/AF	LM Manassas/Raytheon, Portsmouth	May-09	Jun-10	No	NA
ARCI Upgrades	Various	31,078	NAVSEA	Aug-08	SS/CP-IF/AF	Lockheed Martin, Manassas, VA	Jan-09	Jul-10	No	NA
VA S/CC/A & Ship NR Eng. for Commonality w/ Backfit	Various	19,700	NAVSEA	Jul-08	SS/CP-IF/AF	LM Manassas/Raytheon, Portsmouth	Jun-09	Jan-10	No	NA
VA AN/BLQ-10 Modernization IO/EA Upgrade	1	7,100	NSSSO	Nov-08	SS/FP	Lockheed Martin, Syracuse, NY	Jun-09	Jun-11	Yes	NA
VA Platform Hotel Services	Various	12,042	NAVSEA	Oct-08	SS/CP/IF	Electric Boat, Groton, CT	Jan-09	Jan-10	Yes	NA
VA AN/BVS-1 Field Change Program	1	4,317	NAVSEA	Nov-08	SS/FP	Kollmorgen, Northampton, MA	Mar-09	Jan-10	Yes	NA
ICADF	Various	234	NSSSO	Aug-08	SS/FP	Lockheed Martin, Syracuse, NY	Mar-09	Jun-10	Yes	NA
Photonics Backfit	Various	11,840	NAVSEA	Nov-08	SS/FP	GD-AIS, Fair Lakes, VA	Mar-09	Jan-10	Yes	NA
VA AN/BVS-1 Rotary Seal Retrofit/Raydome	Various	453	NAVSEA	Nov-08	SS/FP	Kollmorgen, Northampton, MA	Mar-09	Jan-10	Yes	NA
VA Class GCCS-MIT-21	1	1,185	SPAWAR	Dec-08	WR	SPAWAR System Center, Charleston, SC	Feb-09	Jun-10	No	NA
S/W License Procurement to Support NTDPS	1	1,116	NAVSEA	Nov-08	SS/CP-IF/AF (SBIR)	Progeny Systems, Manassas, VA	Feb-09	Sep-09	Yes	NA
System Level Activities PSA/Post PSA	Various	1,673	NAVSEA	Aug-08	SS/CP/IF	Electric Boat, Groton, CT	Mar-09	Sep-09	Yes	NA
Information Assurance Tool Kit	1	137	NAVSEA	Jul-08	SS/CP/IF	Progeny Systems, Manassas, VA	Jan-09	Jan-10	Yes	NA
Modern Legacy Crypto	Various	2,000	NAVSEA	Aug-08	SS/CP/IF	Electric Boat, Groton, CT	Jul-09	Dec-09	Yes	NA
Navigation DSVL Corrections	Various	443	SPAWAR	Dec-08	WR	SPAWAR System Center, Charleston, SC	Jan-09	Jul-09	No	NA
ISIS	Various	453	NAVSEA	Aug-08	SS/FP	Kollmorgen, Northampton, MA	Nov-08	Jun-11	No	NA
VA CI Air Turbine Pump Sprague Clutch	Various	305	NAVSEA	Oct-08	WR	NUWC Newport	Nov-08	Jan-09	No	NA
Weapons Cradle Upgrade	24	125	NAVSEA	Dec-08	SS/CP/IF	Electric Boat, Groton, CT	Jan-09	Jun-09	Yes	NA
FY 2010										
VLS Peculiar Support Equipment (VLS-PSE)	8	37	NUWC	Oct-09	WR	NUWC Newport	Jan-10	Apr-10	Yes	Oct-04
Major Shore Spares										
Propulsor - ILS Parts	Various	1,615	NAVSEA	Jun-08	WR/SS/CP/IF/Option	BAE Systems LP, Minneapolis, MN/ Naval Foundry & Propeller Ctr., Phila., PA	Jan-10	Oct-10	Yes	NA
Propulsor - Rotatable Pool Rotors	Various	14,258	NAVSEA	Aug-07	WR; SS/CP/IF	Naval Foundry & Propeller Ctr., Phila., PA, PTI Bridgeville, PA / EB Corp, Groton, CT	Oct-10	Oct-11	Yes	NA
Propulsor - Bearing Support Structure	1	3,500	NAVSEA	Jun-08	SS/CP/IF/Option	BAE Systems LP, Minneapolis	Jan-10	Jan-12	Yes	NA
Rotatable Pool										
Miscellaneous (Pumps/Motors/Accumulators)	Various	8,007	NAVSEA	Oct-09	SS/CP/IF	Electric Boat, Groton, CT	Jan-10	Dec-10	Yes	Dec-04
MPU Shafts	Various	9,800	NAVSEA	Jan-10	SS/CP/IF	Electric Boat, Groton, CT	Mar-10	Aug-12	Yes	Oct-04

UNCLASSIFIED

CLASSIFICATION:

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			DATE: May 2009			
B. APPROPRIATION/BUDGET ACTIVITY BA-1: SHIPS SUPPORT EQUIPMENT					C. P-1 ITEM NOMENCLATURE VIRGINIA CLASS SSN Support Equipment BLI: 094200					SUBHEAD H1RC	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE	
FY 2010											
Intermediate & Depot (I&D) Support Equipment											
ER, Valve, Pump Tools	Various	600	NAVSEA	Oct-09	SS/FP	Electric Boat, Groton, CT	Nov-09	Sep-10	Yes	NA	
Diesel, Mast, LWAA, Array, SPS, and SHT Tools	Various	1,050	NAVSEA	Oct-09	SS/FP	Electric Boat, Groton, CT	Nov-09	Sep-10	Yes	NA	
Electrical Ship Systems Special Tooling	Various	633	NAVSEA	Oct-09	WR	NUWC Newport, RI	Nov-09	Sep-10	Yes	NA	
ECL and Weapons Handling Equipment	Various	2,132	NAVSEA	Oct-09	WR	NUWC Newport, RI	Nov-09	Sep-10	Yes	NA	
RBP Tools	1	116	NAVSEA	Oct-09	SS/FP	Oceaneering, Chesapeake, VA	Nov-09	Sep-10	Yes	NA	
Hydraulic Valve Repair Kit	1	2,000	NAVSEA	Oct-09	SS/FP	Sargent, Tucson, AZ	Nov-09	Sep-10	Yes	NA	
Voyage Management System											
VMS Radar Kit Installation	1	56	NSWC VAB	Dec-09	WR	NSWC, Virginia Beach, VA	Jan-10	NA	NA	NA	
ECDU Kit Procurement and Certification	Various	291	SPAWAR	Dec-09	WR	SPAWAR System Center, Charleston, SC	Jan-10	Jun-11	No	NA	
ECDU Kit Installation	Various	569	MARMC, Atlantic	Oct-09	WR	MARMC, Atlantic, Norfolk, VA	Nov-09	NA	NA	NA	
Virginia Class Support											
Propulsor Fasteners	Various	525	NAVSEA	Oct-09	WR	NSWCCD Phil	Nov-09	Jan-10	Yes	Oct-07	
Ship Control Sys Tact. Lab Set for the Re-design Config.	Various	4,614	NAVSEA	Jun-09	SS/CPIF	Electric Boat, Groton, CT	Apr-10	Apr-12	No	NA	
Modernization & Technology Upgrades											
HM&E Tech Refresh	Various	4,175	NAVSEA/NUWC KPT	May-10	SS/CPIF	Electric Boat Corp./NUWC, Keyport, WA	Aug-10	Aug-11	Yes	Jan-09	
NPES Tech Refresh	Various	1,785	NAVSEA/NUWC KPT	May-10	SS/CPIF	Electric Boat Corp./NUWC, Keyport, WA	Aug-10	Aug-11	Yes	Jan-09	
VA CCS Tech Refresh for AN/BYG-1	Various	2,499	NAVSEA	Jul-09	SS/CP-IF/AF	LM Manassas/Raytheon, Portsmouth	Nov-09	Jun-11	No	NA	
VA Platform Hotel Services	Various	12,600	NAVSEA	Oct-09	SS/CPIF	Electric Boat, Groton, CT	Jan-10	Jan-11	Yes	NA	
Shipboard Mobile Computing NTDPS (ULAN + SW Enclave + PODS + Upgrades)	Various	1,020	NAVSEA	Aug-09	SS/FP	Electric Boat, Groton, CT	Nov-09	Jun-10	Yes	NA	
System Level Activities PSA/Post PSA	Various	1,683	NAVSEA	Aug-09	SS/CPIF	Electric Boat, Groton, CT	Nov-09	Feb-10	Yes	NA	
NTDPS Software	Various	4,955	NAVSEA	Oct-09	SS/CPFF	Progeny Systems, Manassas, VA	Jan-10	Jan-11	Yes	NA	
VA CI Air Turbine Pump Sprague Clutch	Various	93	NAVSEA	Oct-09	WR	NUWC Newport	Nov-09	Jan-10	No	NA	
Weapons Cradle Upgrade	12	125	NAVSEA	Dec-09	SS/CPIF	Electric Boat, Groton, CT	Jan-10	Jun-10	Yes	NA	
SSN 774-779 Backfit w/ Upgrades to 7 Day Survivability	Various	667	NAVSEA	Mar-10	SS/CPIF	Electric Boat, Groton, CT	Jun-10	Sep-10	No	Feb-10	
HM&E and CFE NPES Modernization	Various	18,000	NAVSEA	Oct-09	SS/CPIF	Electric Boat, Groton, CT	Nov-09	Jan-10	Yes	Oct-07	
O2 Recompression Backfit	Various	900	NAVSEA	Jul-09	SS/CPIF	Electric Boat, Groton, CT	Nov-09	Sep-10	No	Apr-09	
Torpedo Tube Dispenser MK 10 Mod 2	Various	500	NAVSEA	Nov-09	SS/CPIF	Electric Boat, Groton, CT	Jan-10	Sep-10	No	Sep-08	
Propulsor Backfit Corrosion Prevention Features	Various	400	NAVSEA	Oct-09	SS/CPIF	Electric Boat, Groton, CT	Nov-09	Jan-10	Yes	NA	
SCS Modernization Backfit	Various	2,300	NAVSEA	Aug-09	SS/CPIF	Electric Boat, Groton, CT	Jun-10	Jun-12	No	NA	

CLASSIFICATION:		UNCLASSIFIED										
Exhibit P-40, BUDGET ITEM JUSTIFICATION										DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						P-1 LINE ITEM NOMENCLATURE SUBMARINE BATTERIES SUBHEAD NO. H1HM BLI: 0945						
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)	51.8	A		40.5	41.0	51.5						
SPARES COST (In Millions)	0.7	0		0.2	0.0	0.0						
PROGRAM DESCRIPTION/JUSTIFICATION:												
Procurement of Valve Regulated Lead Acid (VRLA) batteries and Shipalt installation to modify submarines from use of legacy flooded battery (no longer in production at former sole source manufacturer) to new design VRLA battery. Initial installations of VRLA battery also requires the installation of an Automatic Battery Monitoring system (ABMS). The budget procures initial VRLA batteries for 31 SSN688 Class, 3 SSN21 Class, 4 SSGN Class, 9 SSBN Class and 6 SSN774 Class Submarines. It also procures replacement VRLA batteries at a notional 8 year replacement cycle.												
VRLA LOS ANGELES - HM002												
Procurement of a low maintenance sealed lead acid battery which involves adapting commercial Valve Regulated Lead Acid (VRLA) technology to submarines, replacing flooded technology which the industrial base ceased to continue supporting in FY05. This change requires an extensive SHIPALT unique for each submarine class. Installations began on the LOS ANGELES Class in FY06 during major availabilities. All dates for VRLA installation on Los Angeles Class submarines are based on the FMPMIS schedule of 30 Apr 2008. A SHIPALT redesign has been completed which reduces the installation duration from 180 days to 120 days. The first installation of the redesigned SHIPALT will be on USS OKLAHOMA CITY (SSN723) starting in September 2008. Installation unit costs vary due to the type and location of the installation availability. DSRA extension costs for additional drydocking support and project management (\$1.05M in FY07 for each 30 day extension) are prorated based on the other SHIPALT installations occurring which also require extending the DSRA beyond the notional 2 months. Travel and per diem costs are dependent on the location of the installation. Learning curve efficiencies are priced into follow-on installations.												
Availability Types:												
DMP Depot Modernization Period - 13 months												
EOH Engineered Overhaul - 16 months												
DSRA Drydocking Selected Restricted Availability - 2 months												

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE SUBMARINE BATTERIES SUBHEAD NO. H1HM BLI: 0945	
<p>VRLA SEAWOLF - HM009 Procurement of a low maintenance sealed lead acid battery which involves adapting commercial Valve Regulated Lead Acid (VRLA) technology to submarines, replacing flooded technology which the industrial base ceased to continue supporting in FY05. This change requires an extensive SHIPALT unique for each submarine class. Installations began on SEAWOLF Class in FY07. Initial installation was delayed from FY06 due to ship's operational commitments. All dates for VRLA installation on Seawolf Class submarines are based on the FMPMIS schedule of 10 Jul 2008. Installation costs for Seawolf class SHIPALT is currently estimated at \$4.9M in FY07 dollars. Installation of VRLA Shipalt will complete in FY08.</p> <p>Availability Types: DPMA Drydocking Phased Maintenance Availability Special Non-CNO Scheduled Availability</p> <p>Prior Years SSN 22 Special Oct-06 SSN 21 Special Oct-07 SSN 23 DPSM Mar-08</p> <p>VRLA VIRGINIA - HM010 Procurement of a low maintenance sealed lead acid battery which involves adapting commercial Valve Regulated Lead Acid (VRLA) technology to submarines, replacing flooded technology which the industrial base ceased to continue supporting in FY05. This change requires an extensive SHIPALT unique for each submarine class. Installations will begin on VIRGINIA Class in FY10. All dates for VRLA installation on Virginia Class submarines are based on the FMPMIS schedule of 10 Jul 2008. Basic installation cost for Virginia class SHIPALT is currently estimated at \$4.2M in FY07 dollars which included \$1.0M for the Shipalt Kit. Additional costs for travel and per diem are required for installations away from the AIT location. Learning curve efficiencies are priced into follow-on installations. The higher installation costs for VIRGINIA Class are driven by extensive lead reballasting requirements during the installation.</p> <p>Availability Types: EDSRA Extended Drydocking Selected Restricted Availability</p> <p>FY09 FY10 SSN 774 EDSRA Oct-10 SSN 775 EDSRA Sep-11</p> <p>PRODUCTION ENGINEERING - HM830 NSWC Crane is the designated procurement activity and engineering agent to monitor battery performance to establish replacement schedules with the fleet. Complementing the battery procurements with technical contractual data, NSWC Crane receives sample cells of lead-acid batteries (all types) to perform continuous life testing until complete cell failure. In addition to this being a Military Specification (MILSPEC) requirement, this procedure has proven very beneficial to the Navy in detecting battery deficiencies that can be corrected before installation thus alleviating critical emergent fleet impact.</p>		

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE SUBMARINE BATTERIES SUBHEAD NO. H1HM BLI: 0945	
<p>A final procurement of flooded batteries was conducted in FY05 prior to the shutdown of the sole source production plant to support an executable transition to the VRLA battery. Costs associated with establishing a flooded battery storage, maintenance, inventory management (including battery swaps) and activation site and VRLA battery shock qualification costs for Planning Yard accomplishment and NSWC Carderock shock support are funded through this line. Funding is provided for Puget Sound and Portsmouth Naval Shipyards responsibilities for the flooded battery inventory storage, maintenance and inventory management and SHIPALT support and AIT management. In addition, costs for Planning Yard SHIPALT completion and Lead Yard Services are funded through this line.</p>		

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS				Weapon System							DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code A		P-1 LINE ITEM NOMENCLATURE SUBMARINE BATTERIES SUBHEAD NO. H1HM						
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
	<u>EQUIPMENT</u>											
HM002	<u>LOS ANGELES CLASS MAIN STORAGE BATTERY</u> VRLA LOS ANGELES + ABMS	A	6.763	4	0.703	2.813	4	0.719	2.835	1	0.776	0.776
HM008	<u>OHIO CLASS MAIN STORAGE BATTERY</u> VRLA OHIO + ABMS	A	1.702	1	1.992	1.992	2	2.036	4.072	3	2.119	6.357
HM009	<u>SEAWOLF CLASS MAIN STORAGE BATTERY</u> VRLA SEAWOLF + ABMS	A	3.536	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HM010	<u>VIRGINIA CLASS MAIN STORAGE BATTERY</u> VRLA VIRGINIA + ABMS	A	0.000	0	0.000	0.000	1	1.377	1.377	1	1.448	1.448
HM830	PRODUCTION ENGINEERING	A	8.061	0	0.000	5.116	0	0.000	5.197	0	0.000	3.707
	TOTAL EQUIPMENT		20.062			9.921			13.481			12.288
	<u>INSTALLATION</u>											
HM5IN	FMP INSTALLATION	A	31.690	0	0.000	30.578	0	0.000	27.530		0.000	39.194
	TOTAL INSTALLATION		31.690			30.578			27.530			39.194
	TOTAL		51.752			40.499			41.011			51.482
Comment:												

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE SUBMARINE BATTERIES BLIN: 0945				SUBHEAD H1HM	
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										
HM002 LOS ANGELES CLASS MAIN STORAGE BATTERY VRLA LOS ANGELES + ABMS	4	0.703	NSWC CRANE		C/FP	ENERSYS READING, PA	JAN-08	APR-09	YES	
HM008 OHIO CLASS MAIN STORAGE BATTERY VRLA OHIO + ABMS	1	1.992	NSWC CRANE		C/FP	ENERSYS READING, PA	JAN-08	OCT-08	YES	
FY 2009										
HM002 LOS ANGELES CLASS MAIN STORAGE BATTERY VRLA LOS ANGELES + ABMS	4	0.719	NSWC CRANE		C/FP	UNKNOWN	JAN-09	NOV-09	YES	
HM008 OHIO CLASS MAIN STORAGE BATTERY VRLA OHIO + ABMS	2	2.036	NSWC CRANE		C/FP	UNKNOWN	JUN-09	DEC-09	YES	
HM010 VIRGINIA CLASS MAIN STORAGE BATTERY VRLA VIRGINIA + ABMS	1	1.377	NSWC CRANE		C/FP	UNKNOWN	APR-09	OCT-10	YES	
FY 2010										
HM002 LOS ANGELES CLASS MAIN STORAGE BATTERY VRLA LOS ANGELES + ABMS	1	0.776	NSWC CRANE		C/FP	UNKNOWN	JAN-10	DEC-10	YES	
HM008 OHIO CLASS MAIN STORAGE BATTERY VRLA OHIO + ABMS	3	2.119	NSWC CRANE		C/FP	UNKNOWN	JAN-10	OCT-10	YES	
HM010 VIRGINIA CLASS MAIN STORAGE BATTERY VRLA VIRGINIA + ABMS	1	1.448	NSWC CRANE		C/FP	UNKNOWN	JAN-10	SEP-11	YES	

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED HM002 LOS ANGELES CLASS MAIN STORAGE BATTERY VRLA LOS ANGELES + ABMS	TYPE MODIFICATION: SHIPALT	MODIFICATION TITLE: SUBMARINE BATTERIES
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DESCRIPTION/JUSTIFICATION:
VRLA Shipalt is required to modify LA Class submarines from use of legacy flooded battery (no Longer in production at former sole source manufacturer) to new design VRLA battery.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		
<u>PROCUREMENT</u>																		
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT	8	6.8	4	2.8	4	2.9	1	0.8									17	13.3
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST	4	22.0	4	20.7	4	22.3	5	23.8									17	88.8
<u>TOTAL PROCUREMENT</u>		28.8		23.5		25.2		24.6										102.1

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED HM008 OHIO CLASS MAIN STORAGE BATTERY VRLA OHIO + ABMS	TYPE MODIFICATION: SHIPALT	MODIFICATION TITLE: SUBMARINE BATTERIES
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DESCRIPTION/JUSTIFICATION:
VRLA Shipalt is required to modify OHIO Class submarines from use of legacy flooded battery (no longer in production at former sole source manufacturer) to new design VRLA battery.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		
<u>PROCUREMENT</u>																		
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT	1	1.7	1	2.0	2	4.1	3	6.4									7	14.2
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST		1.3	1	3.5	1	4.1	3	10.3									5	19.2
<u>TOTAL PROCUREMENT</u>		3.0		5.5		8.2		16.7										33.4

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED HM009 SEAWOLF CLASS MAIN STORAGE BATTERY VRLA SEAWOLF + ABMS	TYPE MODIFICATION: SHIPALT	MODIFICATION TITLE: SUBMARINE BATTERIES
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DESCRIPTION/JUSTIFICATION:
 VRLA Shipalt is required to modify SEAWOLF Class submarines from use of legacy flooded battery (no longer in production at former sole source manufacturer) to new design VRLA Battery.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT	3	3.5															3	3.5	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST	1	8.4	2	6.4													3	14.8	
<u>TOTAL PROCUREMENT</u>		11.9		6.4														18.3	

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED HM010 VIRGINIA CLASS MAIN STORAGE BATTERY VRLA VIRGINIA + ABMS	TYPE MODIFICATION: SHIPALT	MODIFICATION TITLE: SUBMARINE BATTERIES
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DESCRIPTION/JUSTIFICATION:
 VRLA Shipalt is required to modify VIRGINIA Class submarines from use of legacy flooded battery (no longer in production at former sole source manufacturer) to new design VRLA battery.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT					1	1.4	1	1.4									2	2.8	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST							1.1	1	5.1								1	6.2	
<u>TOTAL PROCUREMENT</u>							2.5		6.5										9.0

CLASSIFICATION:		UNCLASSIFIED										
Exhibit P-40, BUDGET ITEM JUSTIFICATION										DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						P-1 LINE ITEM NOMENCLATURE STRATEGIC PLATFORM SUPPORT EQUIP SUBHEAD NO. H1HH BLI: 0950						
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		10.0	9.9	15.7						
SPARES COST (In Millions)	0.0	0		0.0	0.0	0.0						
PROGRAM DESCRIPTION/JUSTIFICATION:												
<p>Funding in this P-1 line provides for the procurement of tactical Hull, Mechanical and Electrical (HM&E) equipment that will be installed aboard ships and in the facilities at the TRIDENT Refit Facility (TRIREFFAC) Navy Intermediate Maintenance Facility (NAVIMFAC) and TRIDENT Training Facility (TRITRAFAC). The TRIDENT Refit Facility and Navy Intermediate Maintenance Facility (NAVIMFAC) is a dedicated shore support facility providing a full range of industrial support. The TRITRAFAC provides the crews for the SSBN 726 Class Submarines with realistic training experience in operating and maintaining shipboard equipment.</p> <p>HM&E AND STRATEGIC WEAPONS SYSTEMS/SUPPORT SUBSYSTEM (SWS/SS) ALTERATIONS (HH009)- This provides for the replacement of obsolete equipment on board of SSBN 726 Class Submarines and at dedicated Shore Support Facilities (TLCSF, TRITRAFAC (B), NAVIMFAC (B), TRITRAFAC (KB), TRIREFFAC (KB), Major Shore Spares (MSS)). These alterations are necessary in order to replace obsolete/outdated equipments with new equipments to maintain or increase mission capabilities, replace or modify components/systems which have proven to be unreliable, correct design and safety problems and reduce fleet maintenance burdens. Funds provide for multiple efforts to ensure that the OHIO Class Ship Control Subsystem, both hardware and software components, support the extended life of the OHIO Class submarine platforms. In FY99 and again in FY06 a NUWC Keyport study identified a number of obsolete electronic components in the Ship Control Station (27 out of 107) that no longer available. The FY06 study recommended that the Ship Control ISEA develop and execute a program that would address the near term obsolescence issues and ensure the continued availability of the subsystem in the out years. Alterations and actions are done at the lowest practicable and authorized level (taking into consideration urgency, priority, capability, capacity and cost). Alterations to SSBN 726 Class Submarines are scheduled for accomplishment at the TRIREFFAC, Kings Bay and NAVIMFAC, Bangor. This requires equipment procurement and installation, technical planning, training, and associated resources. This line provides for material procurement necessary to install the required alterations to SSBN 726 Class Submarines at the NAVIMFAC, Bangor, and the TRIREFFAC, Kings Bay. Additionally, this line provides for the utilization of specially trained and dedicated installation teams to ensure accelerated and correct installation of complex and high priority alterations within specific time frames. Provided are comprehensive program management and execution, including planning, direction, control, installation, integration, and coordination of specifically selected safety related, mission enhancement or technical HM&E alterations.</p> <p>TRIDENT ENGINEERED AVAILABILITY (EA) (HH012) TRIDENT EA material support funding is required to provide replacement and contingency material to support the critical path schedule during the SSBN 726 Class</p>												

CLASSIFICATION:	UNCLASSIFIED		
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE STRATEGIC PLATFORM SUPPORT EQUIP SUBHEAD NO. H1HH BLI: 0950		
<p>Submarine Engineered Availabilities (EAs) commencing in FY93 and continuing through the operational life of the submarine. Funding is also required to formulate or procure complex tools and fixtures required to reduce EA scheduled durations. This program also provides funding for installation of Depot level alterations packages, QA oversight and certification by SOS Groton of OPN shipalts performed by EB Corp, LAR/SRD mark ups for Shipalt related work, NUWC Newport test support and deckplate coordination of AIT work for ERPs / modernization periods.</p> <p>SSTG ROTORS (HH013) Provides for the procurement of long lead time material and manufacturing of SSTG Rotors on OHIO Class submarines. This cost code was established for FY 10. In FY 10, SSBN ERO funding was transferred from SCN to OPN and O&MN. This rotor effort used to be in the SSBN ERO SCN line and the transferred funding for this effort is to OPN, for procurement and installation. Replaces both port and starboard SSTG rotors. Rotor retaining rings and insufficient life of critical rotor internal components such as radial conductors, J-straps, rotor body tooth tops, and rotor winding transition area are primary liabilities limiting rotor set operational life. The older rotor design utilized retaining rings that are subject to stress, corrosion, and cracking when exposed to moisture. This stress corrosion and cracking could result in catastrophic failure resulting in personnel and ship safety concerns.</p> <p>SSGN MODIFICATIONS (HH0GN) Provides for procurement of SSGN unique system components that will be installed during planned modernization periods. In addition, this will provide funding to perform integrated testing of these unique systems to ensure satisfactory operation with other HM&E and Combat Systems.</p> <p>HM&E INSTALLATION Provides for the installation of SSTG Rotors on the OHIO Class Submarines.</p>			

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS				Weapon System						DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code A		P-1 LINE ITEM NOMENCLATURE STRATEGIC PLATFORM SUPPORT EQUIP SUBHEAD NO. H1HH						
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
	<u>EQUIPMENT</u>											
HH009	<u>EQUIPMENT HM&E & SWS/SS ALTERATION</u> SCS PY SHIPALT DEV	A	5.400	0	0.000	1.813	0	0.000	2.699	0	0.000	3.738
HH012	<u>EQUIPMENT HM&E TRIDENT ENGINEERING AVAILABILITY</u> SHIPALT INSTALLATION PLANNING AND ENGINEERING SERVICES	A	1.690	1	1.605	1.605	1	1.983	1.983	1	1.952	1.952
	CCS EQUIPMENT REFURBISHMENT & SHIPBOARD TESTING	A	1.894	1	1.321	1.321	1	1.613	1.613	1	1.586	1.586
	HM&E EQUIPMENT REFURBISHMENT & SHIPBOARD TESTING	A	1.300	1	0.969	0.969	1	1.133	1.133	1	1.116	1.116
HH013	<u>SSTG ROTORS</u> OHIO CLASS PROCUREMENT INSTALLATION PLANNING		0.000	0	0.000	0.000	0	0.000	0.000	1	3.330	3.330
HH0GN	<u>SSGN MODIFICATIONS</u> SSGN ESCAPE TRUNK UPPER HATCH BALL SCREW OPERATOR	A	0.000	2	0.654	1.309	2	0.650	1.300	0	0.000	0.000
	SSGN CCS INTEGRATION AND TESTING	A	2.725	0	0.000	0.166	0	0.000	0.000	0	0.000	0.000
	AUR TEST SUPPORT	A	0.000	0	0.000	0.149	0	0.000	0.000	0	0.000	0.000
	SASSD	A	0.000	0	0.000	0.083	0	0.000	0.000	0	0.000	0.000
	SSGN MODERNIZATION	A	0.000	0	0.000	0.659	0	0.000	0.000	0	0.000	0.000
	SSGN DIVER EMER 02 RECOMPRESSION	A	1.120	0	0.000	0.626	0	0.000	0.000	0	0.000	0.000
	SSGN SELF CONTAINED BREATHING APPARATUS	A	0.423	0	0.000	0.166	0	0.000	0.000	0	0.000	0.000
	SSGN TACTICAL AUR BALLAST	A	0.492	1	1.127	1.127	1	1.196	1.196	1	1.203	1.203
	SSGN BMC-SOF C&C 727/729	A	2.592	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	SSGN MAC RETENTION SEGMENTS	A	2.727	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HHCA1	<u>CONGRESSIONAL ADD</u> AN/UYQ-70 COMMON ELECTRONICS REPL	A	4.300	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	TOTAL EQUIPMENT		24.663			9.993			9.924			12.925

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)				Weapon System						DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code A		P-1 LINE ITEM NOMENCLATURE STRATEGIC PLATFORM SUPPORT EQUIP SUBHEAD NO. H1HH						
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
HH5IN	<u>INSTALLATION</u> SSTG ROTORS	A	0.000	0	0.000	0.000	0	0.000	0.000	1	2.747	2.747
			0.000			0.000			0.000			2.747
	24.663				9.993			9.924			15.672	
	TOTAL											
Comment:												

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE STRATEGIC PLATFORM SUPPORT EQUIP BLIN: 0950				SUBHEAD H1HH	
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										
HH012 EQUIPMENT HM&E TRIDENT ENGINEERING AVAILABILITY										
HM&E EQUIPMENT REFURBISHMENT & SHIPBOARD TESTING	1	0.969	NAVSEA	N/A	WR	NSWC CD, PHILADELPHIA PA	APR-08	AUG-08	YES	
SHIPALT INSTALLATION PLANNING AND ENGINEERING SERVICES	1	1.605	NAVSEA	N/A	OTHER*	EB CORP., GROTON, CT	APR-08	AUG-08	YES	
CCS EQUIPMENT REFURBISHMENT & SHIPBOARD TESTING	1	1.321	NAVSEA	N/A	WR	NUWC NEWPORT, RI	APR-08	AUG-08	YES	
HH0GN SSGN MODIFICATIONS										
SSGN TACTICAL AUR BALLAST	1	1.127	NAVSEA	N/A	OTHER*	EB CORP., GROTON, CT	APR-08	AUG-08	YES	
SSGN ESCAPE TRUNK UPPER HATCH BALL SCREW OPERATOR	2	0.654	NAVSEA	N/A	OTHER*	EB CORP., GROTON, CT	APR-08	AUG-08	YES	
FY 2009										
HH012 EQUIPMENT HM&E TRIDENT ENGINEERING AVAILABILITY										
HM&E EQUIPMENT REFURBISHMENT & SHIPBOARD TESTING	1	1.133	NAVSEA	N/A	WR	NSWC CD, PHILADELPHIA PA	APR-09	AUG-09	YES	
SHIPALT INSTALLATION PLANNING AND ENGINEERING SERVICES	1	1.983	NAVSEA	N/A	OTHER*	EB CORP., GROTON, CT	APR-09	AUG-09	YES	
CCS EQUIPMENT REFURBISHMENT & SHIPBOARD TESTING	1	1.613	NAVSEA	N/A	WR	NUWC NEWPORT, RI	APR-09	AUG-09	YES	
HH0GN SSGN MODIFICATIONS										
SSGN TACTICAL AUR BALLAST	1	1.196	NAVSEA	N/A	OTHER*	EB CORP., GROTON, CT	APR-09	AUG-09	YES	
SSGN ESCAPE TRUNK UPPER HATCH BALL SCREW OPERATOR	2	0.650	NAVSEA	N/A	OTHER*	EB CORP., GROTON, CT	APR-09	AUG-09	YES	
FY 2010										
HH012 EQUIPMENT HM&E TRIDENT ENGINEERING AVAILABILITY										
HM&E EQUIPMENT REFURBISHMENT & SHIPBOARD TESTING	1	1.116	NAVSEA	N/A	WR	NSWC CD, PHILADELPHIA PA	APR-10	AUG-10	YES	
SHIPALT INSTALLATION PLANNING AND ENGINEERING SERVICES	1	1.952	NAVSEA	N/A	OTHER*	EB CORP., GROTON, CT	APR-10	AUG-10	YES	
CCS EQUIPMENT REFURBISHMENT & SHIPBOARD TESTING	1	1.586	NAVSEA	N/A	WR	NUWC NEWPORT, RI	APR-10	AUG-10	YES	
HH013 SSTG ROTORS										
OHIO CLASS PROCUREMENT INSTALLATION PLANNING	1	3.330	NAVSEA	N/A	OTHER*	EB CORP., GROTON, CT	JAN-10	JAN-12	YES	
HH0GN SSGN MODIFICATIONS										
SSGN TACTICAL AUR BALLAST	1	1.203	NAVSEA	N/A	OTHER*	EB CORP., GROTON, CT	APR-10	AUG-10	YES	

CLASSIFICATION:			UNCLASSIFIED								
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE STRATEGIC PLATFORM SUPPORT EQUIP BLIN: 0950				SUBHEAD H1HH		
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
HH5IN SSTG ROTORS		1	2.747	NAVSEA	N/A	WR	PSNS, BREMERTON, WA	DEC-09	JAN-10	YES	
Remarks: *CONTRACT METHODS LISTED AS "OTHER" ARE COST PLUS FIXED FEE (CPFF) CONTRACTS.											

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED HH013 SSTG ROTORS OHIO CLASS PROCUREMENT INSTALLATION PLANNING	TYPE MODIFICATION: K-ALT	MODIFICATION TITLE: STRATEGIC PLATFORM SUPPORT EQUIP
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DESCRIPTION/JUSTIFICATION:
THE SSTG ROTORS REPLACES OBSOLETE SSTG COMPONENTS THAT ARE REACHING THEIR DESIGN LIFE. IN ADDITION, THE CHANGE INCREASES SYSTEM RELIABILITY AND ACOUSTIC ADVANTAGE THROUGH SYSTEM QUIETING.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT							1	3.3									1	3.3	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST							1	2.7									1	2.7	
<u>TOTAL PROCUREMENT</u>								6.0										6.0	

CLASSIFICATION:		UNCLASSIFIED									
Exhibit P-40, BUDGET ITEM JUSTIFICATION										DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						P-1 LINE ITEM NOMENCLATURE DSSP EQUIPMENT SUBHEAD NO. 81HJ BLI: 0955					
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)	100.6	A		6.1	5.7	10.6					
SPARES COST (In Millions)	0.0	0		0.0	0.0	0.0					
PROGRAM DESCRIPTION/JUSTIFICATION:											
<p>The Advanced Undersea Systems Program (AUS) formerly Deep Submergence Systems Program (DSSP) is responsible for the procurement, life cycle support, and improvement and modernization of assigned platforms and programs. The AUS program provides for the procurement of equipment to support the establishment and maintenance of fleet capability for a number of programs which perform submarine research and rescue, inspection, object location and retrieval from the ocean environment, and research and scientific exploration missions. AUS procurements replace obsolete, non-supportable equipment and subsystems through phased improvement and modernization projects. These projects may include special ship alterations, field change kits, and design corrections.</p> <p>SOURCES:</p> <p>The sources for these acquisitions are limited. There are few private companies actively engaged in deep ocean engineering and even fewer with the specialized experience, knowledge, and facilities to meet the exacting requirements of the DSSP. Accordingly, sole source contracts are typically required with LESC, CSDL, and LMTDS to continue their support of the various DSSP programs. Where possible, contracting via open competition is utilized.</p> <p>REFERENCES:</p> <p>Acquisition Plans 584-87 Revision 7 approved August 2000. Acquisition plan for Submarine Escape and Rescue is reviewed twice annually by Submarine Escape and Rescue Review Group (SERRG). AUS systems include:</p> <p>RESCUE SUPPORT EQUIPMENT (HJ030) ATMOSPHERIC DIVING SYSTEM/SUBMARINE RESCUE DIVING and RECOMPRESSION SYSTEM</p> <p>The Atmospheric Diving System (ADS) is a component of the Submarine Rescue Diving and Recompression System (SRDRS). This modified COTS one-man, one atmosphere diving system will also provide world-wide capability in support of the Submarine Rescue Chamber (SRC) mission. ADS will be used to clear disabled submarines seating surfaces, attach the SRC downhaul cable and attach salvage fittings. The SRDRS Rescue Capable System completed OPEVAL in FY08 and is rescue ready.</p> <p>SURVIVABILITY</p> <p>This effort will provide a more efficient CO2 removal capability giving the fleet an increase in survival time from 3 days to 7 days for a disabled submarine and adds state of the art atmospheric monitoring equipment aboard each submarine.</p>											

CLASSIFICATION:	UNCLASSIFIED		
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)			DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE DSSP EQUIPMENT SUBHEAD NO. 81HJ BLI: 0955		
<p>and adds state of the art atmospheric monitoring equipment aboard each submarine.</p> <p>SUBMARINE ESCAPE & IMMERSION EQUIPMENT (SEIE) (HJ100) The SEIE is used by a submariner to escape from a disabled submarine and survive on the surface until rescued. The system, which has been adapted from a British design, includes the escape suit, inner thermal suit and a single person life raft, all packaged as a unit onboard the submarine. This is a safety/survival appliance that is vastly superior to the current Stienke Hood escape appliance onboard USN submarines, which has reached obsolescence and has become a maintenance burden to the fleet. The SEIE increases the escape depth to 600 FSW and provides thermal protection to the user from hypothermia. The increase in funding over previous years accelerates introduction of SEIE to the Submarine Fleet. The funding also incorporates mandatory escape assistance devices for all escape trunk hatches to ensure safe escape by personnel from the disabled submarine.</p> <p>EQUIPMENT INSTALLATION (HJINS/HJ927) These funds are for the installation of The Advanced Undersea Systems Program (AUS) equipment, as well as the SEIE equipment.</p>			

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS				Weapon System							DATE	
APPROPRIATION/BUDGET ACTIVITY				ID Code		P-1 LINE ITEM NOMENCLATURE						
OTHER PROCUREMENT, NAVY/BA 1				A		DSSP EQUIPMENT						
						SUBHEAD NO. 81HJ						
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
	<u>EQUIPMENT</u>											
HJ030	<u>RESCUE SUPPORT EQUIPMENT</u>											
	VEHICLE UPGRADES	A	0.055	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	ADS LARS 1	A	0.508	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	SRDRS SPARES AND TOOLS	A	4.335	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	ADS SUIT 1 UPGRADE/CERT	A	0.600	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	LARS DECK SKID	A	0.491	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	ADS UPGRADES	A	12.938	0	0.000	0.400	0	0.000	0.300	0	0.000	0.300
	UMV UPGRADES	A	0.117	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	SRDRS MOORING SYSTEM UPGRADE	A	1.006	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	UPPER HATCH LINKAGE UPGRADES	A	0.000	0	0.000	2.077	0	0.000	0.000	0	0.000	0.000
	SRC MATERIALS	A	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.325
	SRDRS SYSTEM UPGRADE AND UPGRADE SPARES	A	3.453	0	0.000	1.350	0	0.000	3.029	0	0.000	8.618
HJ100	<u>SUBMARINE ESCAPE & IMMERSION EQUIPMENT</u>											
	LA CLASS SEIE EQUIPMENT UPGRADE	A	0.343	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	LA CLASS SEIE SUIT SETS	A	36.238	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	TOTAL EQUIPMENT		60.084			3.827			3.329			9.243
	<u>INSTALLATION</u>											
HJ927	INSTALL OF EQUIPMENT (FMP) HJ927	A	38.434	2	1.141	2.281	2	1.194	2.387	1	1.398	1.398
HJINS	INSTALL OF EQUIPMENT	A	2.093	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 1				ID Code A		P-1 LINE ITEM NOMENCLATURE DSSP EQUIPMENT SUBHEAD NO. 81HJ						
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 INSTALLATION		40.527			2.281			2.387			1.398
	TOTAL		100.611			6.108			5.716			10.641
Comment: Increased funding for HJ030 in FY10 supports Rescue Capable System Post delivery modifications, procurement of 4 additional sets of Ship Interface Template Systems, and SRC materials due to transition of SRC maintenance to NAVSEA from the Fleet beginning in FY10.												

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED HJ100 SUBMARINE ESCAPE & IMMERSION EQUIPMENT LA CLASS SEIE SUIT SETS	TYPE MODIFICATION: FEB-06	MODIFICATION TITLE: DSSP EQUIPMENT
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DESCRIPTION/JUSTIFICATION:

The SEIE is used by a submariner to escape from a disabled submarine and survive on the surface until rescued. The system, which has been adapted from a British design, includes the escape suit, inner thermal suit and a single person life raft, all packaged as a unit onboard the submarine. This is a safety/survival appliance that is vastly superior to the current Stienke Hood escape appliance onboard USN submarines, which has reached obsolescence and has become a maintenance burden to the fleet. The SEIE increases the escape depth to 600 FSW and provides thermal protection to the user from hypothermia. The increase in funding over previous years accelerates introduction of SEIE to the Submarine Fleet. The funding also incorporates mandatory escape assistance devices for all escape trunk hatches to ensure safe escape by personnel from the disabled submarine.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN(IN MILLIONS)</i>																			
<i>RDT&E</i>																			
PROCUREMENT																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT	369	36.2																369	36.2
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST	64	28.3	2	2.3	2	2.4	1	1.4										69	34.4
TOTAL PROCUREMENT		64.5		2.3		2.4		1.4											70.6

CLASSIFICATION:		UNCLASSIFIED										
Exhibit P-40, BUDGET ITEM JUSTIFICATION										DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE CG MODERNIZATION SUBHEAD NO. 11CC BLI: 0960							
Program Element for Code B Items					Other Related Program Elements 0604307N, 0604567N, 0204221N							
	Prior Years	ID Code		FY 2008	FY 2009	FY 2010						Total
Quantity	0			1	2	2						5
COST (In Millions)	398.8			216.0	165.2	315.3						1,095.3
SPARES COST (In Millions)	10.5	0		4.3	2.9	7.7						25.4
PROGRAM DESCRIPTION/JUSTIFICATION: Modernized CG47 Class ships will operate independently or as units of Carrier Battle Groups and Surface Action Groups, in support of the Marine Amphibious Task Forces in multi-threat environments that include air, surface and subsurface threats. These ships will respond to Low Intensity Conflict/Coastal and Littoral Offshore Warfare (LIC/CALOW) and joint mission scenarios as well as open ocean conflict, providing and augmenting power projection and forward presence. These ships will conduct Air Dominance, Land Attack, and Force Protection missions. The quantities line represents the total CG Modernization (CGM) availabilities started in each fiscal year. CC001 - SPQ-9B UPGRADE Procures SPQ-9B for all CG Modernization ships including equipment procurement, non-recurring and recurring equipment engineering, equipment integration, and Integrated Logistics Support (ILS). CC002 - SARTIS Procures Shipboard Advanced Radar Target Identification System (SARTIS) including equipment procurement, non-recurring and recurring equipment engineering, equipment integration, and ILS. Beginning with the FY07 procurements and a 12 month lead-time, CGs 52-58 will receive Field Change 2 and v2.6 software to provide Fiber-optic Fast Ethernet interface. Beginning in FY10 with a 24 month lead-time, CGs 59-73 will receive Tech Refresh upgrade with new v3.x software and new target library update. The Tech Refresh upgrade includes multiple component replacements implementing a higher cost. CC003 - CEC Procures Cooperative Engagement Capability (CEC) for all ships including equipment procurement, non-recurring and recurring equipment engineering, equipment integration, and ILS. CC004 - AN/SQQ-89 Procures AN/SQQ-89 for Baseline 3 and 4 ships including equipment procurement, non-recurring and recurring equipment engineering, equipment integration, and ILS. CC005 - SGS / CDLMS Procures Ship Gridlock System (SGS) and the Common Data Link Management System (CDLMS) for Baseline 2 ships including equipment procurement, non-recurring and												

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE CG MODERNIZATION SUBHEAD NO. 11CC BLI: 0960	
<p>recurring equipment engineering, equipment integration, and ILS.</p> <p>CC007 - AWS UPGRADE Procures AEGIS Weapons System (AWS) upgrade for all ships including equipment procurement, non-recurring and recurring equipment engineering, equipment integration, and ILS.</p> <p>CC008 - VLS UPGRADE Procures Vertical Launch System (VLS) upgrade for all ships including equipment procurement, non-recurring and recurring equipment engineering, equipment integration, and ILS.</p> <p>CC009 - CIWS-1B Procures Close In Weapon System (CIWS-1B) for out-year availabilities including equipment procurement, non-recurring and recurring equipment engineering, equipment integration, and ILS.</p> <p>CC010 - MK34 UPGRADE Procures MK34 Gun Weapon System (GWS) Upgrade for all ships including equipment procurement, non-recurring and recurring equipment engineering, equipment integration, and ILS.</p> <p>CC011 - ISC UPGRADE Procures Smartship (Integrated Ship Controls (ISC) for all ships requiring upgrade including equipment procurement, non-recurring and recurring equipment engineering, equipment integration, and ILS.</p> <p>CC012 - VIRGINIA SITES Procures Commercial Off The Shelf (COTS) Refresh (CR-2) equipment including equipment procurement, non-recurring and recurring equipment engineering, equipment integration, and ILS for various Virginia Sites test facilities. Virginia Sites perform a variety of functions including life-cycle support of the AWS and AEGIS combat training for officer and enlisted watch standers.</p> <p>CC013 - INSTALLATION / DSA / AIT Provides Planning Yard Design Services Allocation (DSA) (design, advance planning, kitted material), MSR installations and AIT installation support.</p> <p>CC014 - CONJUNCTIVE COMBAT SYSTEM ALTERATIONS Conjunctive Combat System Alterations includes design integration, COTS refresh, procurement and backfit installation.</p> <p>CC015 - MULTI-MISSION SIGPRO Procures Multi-Mission Signal Processor (MMSP) combat systems that consists of hardware, software, system engineering, integrated logistics support, system test & evaluation, training, data, installation assistance teams, spare and repair parts, and program management.</p> <p>CC016 - SPY-1D(V) TRANSMITTER UPGRADES Procures SPY-1D(V) Transmitter Upgrades combat systems that consists of hardware, software, system engineering, integrated logistics support, system test & evaluation, training, data, installation assistance teams, spare and repair parts, and program management.</p> <p>CC017 - MULTI-MISSION BMD CAPABILITY Procures Multi-Mission Ballistic Missile Defense (BMD) Capability combat systems that consists of hardware, software, system engineering, integrated logistics</p>		

CLASSIFICATION:	UNCLASSIFIED		
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)			DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE CG MODERNIZATION SUBHEAD NO. 11CC BLI: 0960		
<p>support, system test & evaluation, training, data, installation assistance teams, spare and repair parts, and program management.</p> <p>CC018-MULTI-MISSION SSA/CWI MICROWAVE TUBES Procures Multi-Mission Solid State Amplifier (SSA)/Continuous Wave Illuminator (CWI) Microwave Tubes for the MMSP combat systems that consists of hardware, software, system engineering, integrated logistics support, system test & evaluation, training, data, installation assistance teams, spare and repair parts, and program management.</p>			

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS				Weapon System CG47 CLASS CRUISER MODERNIZATION						DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code		P-1 LINE ITEM NOMENCLATURE CG MODERNIZATION SUBHEAD NO. 11CC						
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
	<u>EQUIPMENT</u> <u>SURFACE WARFARE</u>											
CC001	<u>SPQ-9B UPGRADE</u> SPQ-9B EQUIPMENT SPQ-9B NON-RECURRING ENGINEERING		18.716	2	7.264	14.527	1	6.929	6.929	3	6.998	20.995
			0.215	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
CC002	SARTIS		0.468	2	0.110	0.220	1	0.142	0.142	5	0.127	0.636
CC003	CEC		13.476	2	4.693	9.385	1	4.841	4.841	3	4.889	14.668
CC004	<u>AN/SQQ-89</u> AN/SQQ-89 UPGRADE AN/SQQ-89 UPGRADE (NON-RECURRING)		0.000	0	0.000	1.200	0	0.000	0.000	2	14.000	28.000
			11.907	0	0.000	8.350	0	0.000	4.025	0	0.000	4.003
CC005	<u>SGS / CDLMS</u> SGS / CDLMS SGS / CDLMS (NON-RECURRING)		1.111	2	0.743	1.485	2	0.779	1.557	1	0.787	0.787
			0.700	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
CC007	<u>AWS UPGRADE</u> AWS EQUIPMENT AWS NON-RECURRING ENGINEERING		86.804	2	27.819	55.637	1	26.189	26.189	3	26.450	79.351
			18.228	0	0.000	1.622	0	0.000	3.852	0	0.000	4.628
CC008	VLS UPGRADE		38.615	2	13.339	26.678	1	14.172	14.172	3	13.498	40.494
CC010	<u>MK34 UPGRADE</u> MK34 EQUIPMENT MK34 NON-RECURRING ENGINEERING		21.391	2	7.130	14.260	1	7.299	7.299	3	5.936	17.807
			13.876	0	0.000	1.398	0	0.000	0.000	0	0.000	3.223

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)				Weapon System CG47 CLASS CRUISER MODERNIZATION							DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code	P-1 LINE ITEM NOMENCLATURE CG MODERNIZATION SUBHEAD NO. 11CC							
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
CC011	ISC UPGRADE		25.645	0	0.000	0.139	0	0.000	0.000	0	0.000	0.000
CC012	<u>VIRGINIA SITES</u> VIRGINIA SITES		39.700	0	0.000	0.950	0	0.000	0.700	0	0.000	0.175
CC013	<u>INSTALLATION / DSA / AIT</u> INSTALLATION / DSA / AIT		34.959	0	0.000	58.643	0	0.000	84.997	0	0.000	78.920
CC014	<u>CONJUNCTIVE COMBAT SYSTEM ALTERATIONS</u> CONJUNCTIVE COMBAT SYSTEM ALTERATIONS		72.956		0.000	21.537	0	0.000	10.462	0	0.000	21.636
	SURFACE WARFARE Subtotal		398.767			216.031			165.165			315.323
	TOTAL EQUIPMENT		398.767			216.031			165.165			315.323
	TOTAL		398.767			216.031			165.165			315.323

CLASSIFICATION:		UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System CG47 CLASS CRUISER MODERNIZATION				DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE CG MODERNIZATION BLIN: 0960				SUBHEAD 11CC		
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											
CC001 SPQ-9B UPGRADE SPQ-9B EQUIPMENT	2	7.264	NAVSEA	MAR-08	FP	NORTHROP GRUMMAN, NY	MAR-08	JAN-10	YES		
CC002 SARTIS	2	0.110	NAVSEA	NOV-07		NAWC, PATUXENT, MD	MAR-08	FEB-09	YES		
CC003 CEC	2	4.693	NAVSEA	MAR-08	FP	RAYTHEON, PETERSBURG, FL	MAR-08	JAN-10	YES		
CC005 SGS / CDLMS SGS / CDLMS	2	0.743	NAVSEA	NOV-07	FP	GD / LM, MN	MAR-08	DEC-08	YES		
CC007 AWS UPGRADE AWS EQUIPMENT	2	27.819	NAVSEA	NOV-07	FP	LOCKEED MARTIN, MN/NJ	MAR-08	DEC-09	YES		
CC008 VLS UPGRADE	2	13.339	NAVSEA	MAR-08	FP	LOCKHEED MARTIN, MD	MAR-08	JAN-10	YES		
CC010 MK34 UPGRADE MK34 EQUIPMENT	2	7.130	NAVSEA	MAR-08	FP	VARIOUS	MAR-08	JAN-10	YES		
FY 2009											
CC001 SPQ-9B UPGRADE SPQ-9B EQUIPMENT	1	6.929	NAVSEA	NOV-08	FP	NORTHROP GRUMMAN, NY	JAN-09	DEC-10	YES		
CC002 SARTIS	1	0.142	NAVSEA	NOV-08		NAWC, PATUXENT, MD	DEC-08	FEB-10	YES		
CC003 CEC	1	4.841	NAVSEA	NOV-08	FP	RAYTHEON, PETERSBURG, FL	JAN-09	DEC-10	YES		
CC005 SGS / CDLMS SGS / CDLMS	2	0.779	NAVSEA	SEP-08	FP	GD / LM, MN/NJ	OCT-08	OCT-09	YES		
CC007 AWS UPGRADE AWS EQUIPMENT	1	26.189	NAVSEA	NOV-08	FP	LOCKEED MARTIN, MN/NJ	DEC-08	DEC-10	YES		

CLASSIFICATION:		UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System CG47 CLASS CRUISER MODERNIZATION				DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE CG MODERNIZATION BLIN: 0960				SUBHEAD 11CC		
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	
CC008 VLS UPGRADE	1	14.172	NAVSEA	NOV-08	FP	LOCKHEED MARTIN, MD	DEC-08	DEC-10	YES		
CC010 MK34 UPGRADE MK34 EQUIPMENT	1	7.299	NAVSEA	NOV-08	FP	VARIOUS	DEC-08	DEC-10	YES		
FY 2010											
CC001 SPQ-9B UPGRADE SPQ-9B EQUIPMENT	3	6.998	NAVSEA	NOV-09	FP	NORTHROP GRUMMAN, NY	DEC-09	DEC-11	YES		
CC002 SARTIS	5	0.127	NAVSEA	NOV-09		NAWC, PATUXENT, MD	DEC-09	DEC-10	YES		
CC003 CEC	3	4.889	NAVSEA	NOV-09	FP	RAYTHEON, PETERSBURG, FL	DEC-09	DEC-11	YES		
CC004 AN/SQQ-89 AN/SQQ-89 UPGRADE	2	14.000	NAVSEA	NOV-09	FP	LOCKHEED MARTIN, NY	DEC-09	DEC-11	YES		
CC005 SGS / CDLMS SGS / CDLMS	1	0.787	NAVSEA	OCT-09	FP	GD / LM, MN	DEC-09	DEC-10	YES		
CC007 AWS UPGRADE AWS EQUIPMENT	3	26.450	NAVSEA	NOV-09	FP	LOCKEED MARTIN, MN/NJ	DEC-09	DEC-11	YES		
CC008 VLS UPGRADE	3	13.498	NAVSEA	NOV-09	FP	LOCKHEED MARTIN, MD	DEC-09	DEC-11	YES		
CC010 MK34 UPGRADE MK34 EQUIPMENT	3	5.936	NAVSEA	NOV-09	FP	VARIOUS	DEC-09	DEC-11	YES		

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED CC001 SPQ-9B UPGRADE SPQ-9B EQUIPMENT	TYPE MODIFICATION:	MODIFICATION TITLE: CG MODERNIZATION
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DESCRIPTION/JUSTIFICATION:
Replaces the existing AN/SPQ-9A heavyweight (HW) Radar Set with the AN/SPQ-9B lightweight (LW) Radar Set.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL																									
	Qty	\$	Qty	\$	Qty	\$	Qty	\$															Qty	\$																				
<u>FINANCIAL PLAN(IN MILLIONS)</u>																																												
<u>RDT&E</u>																																												
<u>PROCUREMENT</u>																																												
MODIFICATION KITS																																												
MODIFICATION KITS - UNIT COST																																												
MODIFICATION NONRECURRING																																												
EQUIPMENT	3	18.7	2	14.5	1	6.9	3	21.0															9	61.1																				
EQUIPMENT NONRECURRING		0.2																							0.2																			
ENGINEERING CHANGE ORDERS																																												
DATA																																												
TRAINING EQUIPMENT																																												
SUPPORT EQUIPMENT																																												
OTHER																																												
OTHER																																												
OTHER																																												
INTERIM CONTRACTOR SUPPORT																																												
INSTALL COST		0.3	1	3.2	2	4.8	2	5.1																5	13.4																			
<u>TOTAL PROCUREMENT</u>																							19.2		17.7		11.7		26.1															74.7

CLASSIFICATION: UNCLASSIFIED **May 2009**

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED CC003 CEC	TYPE MODIFICATION: SHIPALT	MODIFICATION TITLE: CG MODERNIZATION
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DESCRIPTION/JUSTIFICATION:
Provides Single Integrated Air Picture/Cooperative Engagement Capability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		
<u>PROCUREMENT</u>																		
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT	3	13.5	2	9.4	1	4.8	3	14.7									9	42.4
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST		1.9	1	1.9	2	2.6	2	2.8									5	9.2
<u>TOTAL PROCUREMENT</u>		15.4		11.3		7.4		17.5										51.6

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: CEC MODIFICATION TITLE: CG MODERNIZATION

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: 1 Months PRODUCTION LEADTIME: 18-24 Months

CONTRACT DATES: FY 2008: MAR-08 FY 2009: JAN-09 FY 2010: DEC-09

DELIVERY DATES: FY 2008: JAN-10 FY 2009: DEC-10 FY 2010: DEC-11

(\$ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010														TOTAL				
	Qty	\$	Qty	\$	Qty	\$	Qty	\$																Qty	\$
PRIOR YEARS		1.9	1	1.8	2	2.3																		3	6.0
FY 2008 EQUIPMENT				0.1		0.3	2	2.4																2	2.8
FY 2009 EQUIPMENT							0.1	0.3																	0.4
FY 2010 EQUIPMENT								0.2																	0.2

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	1	0	0	0	0	2	0	0	1	0	1															5
Out	0	0	0	0	0	0	1	0	0	0	0	2	0															3

Remarks:

CLASSIFICATION: UNCLASSIFIED **May 2009**

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED CC004 AN/SQQ-89 AN/SQQ-89 UPGRADE	TYPE MODIFICATION: SHIPALT	MODIFICATION TITLE: CG MODERNIZATION
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DESCRIPTION/JUSTIFICATION:
The SQQ-89 provides improved detection of undersea warfare threats and improved anti-submarine warfare performance.

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			2	28.0									2	29.2	
EQUIPMENT NONRECURRING		11.9		8.4		4.0		4.0										28.3	
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST								0.3										0.3	
<u>TOTAL PROCUREMENT</u>		11.9		9.6		4.0		32.3										57.8	

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED AN/SQQ-89 AN/SQQ-89 UPGRADE	MODIFICATION TITLE: CG MODERNIZATION
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: 1 Months PRODUCTION LEADTIME: 24 Months

CONTRACT DATES:	FY 2008:	FY 2009:	FY 2010:
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DELIVERY DATES:	FY 2008:	FY 2009:	FY 2010:
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(\$ 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									0.3																			0.3

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																	0
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0																	0

Remarks:

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED CC007 AWS UPGRADE AWS EQUIPMENT	TYPE MODIFICATION: SHIP ALTERATION	MODIFICATION TITLE: CG MODERNIZATION
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DESCRIPTION/JUSTIFICATION:
 Provides improved computing and display capabilities, faster processing and greater track capacity.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL					
	Qty	\$	Qty	\$	Qty	\$	Qty	\$															Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																								
<u>RDT&E</u>																								
<u>PROCUREMENT</u>																								
MODIFICATION KITS																								
MODIFICATION KITS - UNIT COST																								
MODIFICATION NONRECURRING																								
EQUIPMENT	3	86.8	2	55.6	1	26.2	3	79.4															9	248.0
EQUIPMENT NONRECURRING		18.2		1.6		3.9		4.6																28.3
ENGINEERING CHANGE ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
OTHER																								
OTHER																								
OTHER																								
INTERIM CONTRACTOR SUPPORT																								
INSTALL COST		4.5	1	17.7	2	20.2	2	23.5															5	65.9
<u>TOTAL PROCUREMENT</u>		109.5		74.9		50.3		107.5																342.2

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED CC008 VLS UPGRADE	TYPE MODIFICATION: SHIPALT	MODIFICATION TITLE: CG MODERNIZATION
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DESCRIPTION/JUSTIFICATION:
The Vertical Launch System provides improved capability to launch missiles including Evolved Sea Sparrow Missile.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		
<u>PROCUREMENT</u>																		
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT	3	38.6	2	26.7	1	14.2	3	40.5									9	120.0
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST		2.2	1	2.7	2	3.6	2	3.9									5	12.4
<u>TOTAL PROCUREMENT</u>		40.8		29.4		17.8		44.4										132.4

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED CC010 MK34 UPGRADE MK34 EQUIPMENT	TYPE MODIFICATION:	MODIFICATION TITLE: CG MODERNIZATION
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DESCRIPTION/JUSTIFICATION:
 Procures the Mk 34 Mod 4 Gun Weapon System (GWS) to replace the existing Mk 86 Gun Fire Control System.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$											
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			

PROCUREMENT

MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT	3	21.4	2	14.3	1	7.3	3	17.8										9	60.8
EQUIPMENT NONRECURRING		13.9		1.4				3.2											18.5
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST		1.0	1	4.7	2	6.3	2	6.9										5	18.9
<u>TOTAL PROCUREMENT</u>		36.3		20.4		13.6		27.9											98.2

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED MK34 UPGRADE MK34 EQUIPMENT	MODIFICATION TITLE: CG MODERNIZATION
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 18-24 Months

CONTRACT DATES:		FY 2008:	MAR-08	FY 2009:	DEC-08	FY 2010:	DEC-09
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DELIVERY DATES:		FY 2008:	JAN-10	FY 2009:	DEC-10	FY 2010:	DEC-11
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(\$ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL						
	Qty	\$	Qty	\$	Qty	\$	Qty	\$																Qty	\$
PRIOR YEARS		1.0	1	4.4	2	5.6																		3	11.0
FY 2008 EQUIPMENT				0.3		0.6	2	5.8																2	6.7
FY 2009 EQUIPMENT						0.1		0.7																	0.8
FY 2010 EQUIPMENT								0.4																	0.4

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	1	0	0	0	0	2	0	0	1	0	1															5
Out	0	0	0	0	0	0	1	0	0	0	0	2	0															3

Remarks:

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED CC011 ISC UPGRADE	TYPE MODIFICATION:	MODIFICATION TITLE: CG MODERNIZATION
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DESCRIPTION/JUSTIFICATION:
Replaces Machinery Control System, Ship Control equipment and installs ECTS-N Integrated Bridge System.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010												TOTAL																								
	Qty	\$	Qty	\$	Qty	\$	Qty	\$														Qty	\$																				
<u>FINANCIAL PLAN(IN MILLIONS)</u>																																											
<u>RDT&E</u>																																											
<u>PROCUREMENT</u>																																											
MODIFICATION KITS																																											
MODIFICATION KITS - UNIT COST																																											
MODIFICATION NONRECURRING																																											
EQUIPMENT	3	25.6		0.1																		3	25.7																				
EQUIPMENT NONRECURRING																																											
ENGINEERING CHANGE ORDERS																																											
DATA																																											
TRAINING EQUIPMENT																																											
SUPPORT EQUIPMENT																																											
OTHER																																											
OTHER																																											
OTHER																																											
INTERIM CONTRACTOR SUPPORT																																											
INSTALL COST	2	16.5	1	7.3				0.4														3	24.2																				
<u>TOTAL PROCUREMENT</u>																							42.1		7.4			0.4															49.9

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: ISC UPGRADE MODIFICATION TITLE: CG MODERNIZATION

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: 1 Months PRODUCTION LEADTIME: 9-12 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	\$
PRIOR YEARS	2	16.5	1	7.3																				3	23.8
FY 2008 EQUIPMENT																									
FY 2009 EQUIPMENT																									
FY 2010 EQUIPMENT								0.4																	0.4

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	1	0	0	0	0	0	0	0	0	0	0														3
Out	0	1	1	0	0	0	1	0	0	0	0	0	0														3

Remarks:

CLASSIFICATION:		UNCLASSIFIED											
Exhibit P-40, BUDGET ITEM JUSTIFICATION										DATE May 2009			
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1							P-1 LINE ITEM NOMENCLATURE LCAC SUBHEAD NO. 11LC BLI: 0970						
Program Element for Code B Items							Other Related Program Elements						
	Prior Years	ID Code		FY 2008	FY 2009	FY 2010							
Quantity	18			0	0	0							
COST (In Millions)	55.6			0.1	0.2	6.6							
SPARES COST (In Millions)	0.0	0		0.0	0.0	0.0							
PROGRAM DESCRIPTION/JUSTIFICATION:													
<p>The LCAC (Landing Craft Air Cushion) mission is to transport weapons systems, equipment, cargo and personnel of the assault elements of the Marine Air/Ground Task Force from ship-to-shore and across the beach. The LCAC weighs 150 tons, is 88ft long with a beam of 47ft, rides on a cushion of air contained in a flexible skirt and is propelled by two aft-mounted, reversible, variable pitch propellers. It is capable of speeds in excess of 40 knots. The LCAC is programmed for an SCN Service Life Extension Program (SLEP), which refurbishes the buoyancy box, replaces engines, and upgrades key electronic components. An equipment procurement program is being conducted in OPN to replace selected engines, Personnel Transport Modules and propeller shrouds which the fleet urgently requires to maintain acceptable levels of readiness.</p> <p>LC001 - LCAC SYSTEM UPGRADES</p> <p>- This line includes procurement and installation of components required to maintain acceptable levels of fleet readiness. This program consists of replacing Personnel Transport Modules, replacement engines and propeller shrouds. Equipment removal and installation will take place at the two Assault Craft Units (ACUs), each of which are currently responsible for half of the craft inventory. This work will be performed on craft not scheduled to go through SLEP in the near future.</p> <p>LC002 - ENGINES</p> <p>- ETF 40B engines. The ETF 40Bs are enhanced versions of the current TF40B engines and are being provided with the rest of the SLEP craft. Engine procurements in FY04 and beyond are for Pack Up Kits (PUKs) that accompany fleet deployment of LCACs aboard amphibious ships. Additional ETF 40B engines will be needed for this purpose since they are being newly introduced as part of SLEP.</p>													

CLASSIFICATION:			UNCLASSIFIED												
EXHIBIT P-5 COST ANALYSIS						Weapon System LCAC EQUIPMENT					DATE May 2009				
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						ID Code		P-1 LINE ITEM NOMENCLATURE LCAC SUBHEAD NO. 11LC BLI: 0970							
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			
	<u>EQUIPMENT</u>														
LC001	<u>LCAC SYSTEMS UPGRADE</u>														
	MATERIAL	A	23.743	0	0.000	0.000	0	0.000	0.000	0	0.000	1.923			
	INSTALLATION	A	12.672	0	0.000	0.000	0	0.000	0.000	0	0.000	0.969			
	GOVT ENG & PROG SUPT	A	3.168	0	0.000	0.065	0	0.000	0.173	0	0.000	0.000			
	DETAIL DESIGN & TESTING	A	1.462	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000			
	PERSONNEL TRANSPORT MODULE	A	0.000	0	0.000	0.000	0	0.000	0.000	3	1.250	3.750			
LC002	<u>ENGINES</u>														
	ETF 40-B ENGINES	A	10.462	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000			
LC003	MK16 MOD 8 GUN MOUNTS AND LIGHTWEIGHT ARMOR	A	4.128	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000			
	TOTAL EQUIPMENT		55.635			0.065			0.173			6.642			
	TOTAL		55.635			0.065			0.173			6.642			

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System LCAC EQUIPMENT				DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE LCAC BLI: 0970				SUBHEAD 11LC	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	FIRST DELIVERY	SPEC AVAIL NOW	DATE REVISIONS AVAILABLE
FY 2010										
LC001 LCAC SYSTEMS UPGRADE										
PERSONNEL TRANSPORT MODULE	3	1.250	NSWC PANAMA CITY DIVISION	OCT-09	FFP	TBD	JAN-10	DEC-10		
Remarks: Contract will be to buy three beginning in FY 2010 with options for future buys.										

CLASSIFICATION:		UNCLASSIFIED										
Exhibit P-40, BUDGET ITEM JUSTIFICATION										DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						P-1 LINE ITEM NOMENCLATURE MINESWEEPING EQUIPMENT SUBHEAD NO. 71UQ BLI: 0975						
Program Element for Code B Items 0603654N						Other Related Program Elements 0204424N						
	Prior Years	ID Code		FY 2008	FY 2009	FY 2010						
Quantity	0			0	0	0						
COST (In Millions)	26.1	A		10.1	10.6	0.0						
SPARES COST (In Millions)	2.7	0		8.0	8.3	0.0						
PROGRAM DESCRIPTION/JUSTIFICATION: BEGINNING FY10 THROUGH THE FYDP BLI 0975 MINESWEEPING EQUIPMENT HAS BEEN MOVED TO BLI 0977 UNDERWATER EOD PROGRAMS. Underwater Explosive Ordnance Disposal (EOD): This program supports EOD Groups, Units and Detachments worldwide. This program supplies EOD forces with the necessary diving and diving related equipment to fulfill assigned missions that includes Mine Countermeasures (MCM). Program also includes the Marine Mammal System (MMS). UQ019-MINE WARFARE VULNERABILITY IDENTIFICATION PROGRAM (MIW-VIP): Measures magnetic and acoustic signatures using existing ranges and portable ranges (Forward Area Combined Degaussing and Acoustic Range (FACDAR)). Measurements will be taken in both home port areas and deployment areas to assess a ship's susceptibility to various mines. UQ034-UNDERWATER EOD AND VERY SHALLOW WATER (VSW) SYSTEMS/EQUIPMENT: VSW/EOD UUV: Provide for the procurement of VSW/EOD Unmanned Underwater Vehicles in support of VSW MCM EOD Operations. This is an Abbreviated Acquisition Program (AAP). UW DIVER INTEGRATED SENSORS: (Incorporates Diver Hull Inspection Navigation) Provides for the procurement of a toolbox based on Modified-Off-the-Shelf (MOTS) and mature technologies. Specifically, this provides for more capable diver tools in support of EOD, VSW MCM and Mobile Diving & Salvage Unit (MDSU) search, precise navigation and gathering/transmitting data. NEW UNDERWATER BREATHING APPARATUS (NUBA): Provides for improved Underwater Breathing Apparatus. DIVER SAFETY & LIFE SUPPORT SYSTEMS: Provides for the procurement of a toolbox based on MOTS and mature technologies to provide safer tools and life support systems for EOD, VSW MCM and MDSU operations.												

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE MINESWEEPING EQUIPMENT SUBHEAD NO. 71UQ BLI: 0975	
<p>UQ035-OUTFIT EOD/VSW MCM TOOLS AND EQUIPMENT: C4I UPGRADES: Provides for the upgrade of existing EOD systems to meet C4I requirements.</p> <p>UQ037-MARINE MAMMAL SYSTEM EQUIPMENT MMS ALLOWANCE: Initial outfitting of tools/equipment for increased allowances of all Fleet MMS in accordance with CNO approved allowance list.</p> <p>MARINE MAMMAL SYSTEM CONTINUOUS IMPROVEMENT PROGRAM (MMS CIP): Provides for engineering changes and initial outfitting of equipment to fleet MMS allowing for reduce footprint, and improved system effectiveness and suitability to meet EOD, Anti-Terrorism (AT)/Force Protection (FP), and mission areas.</p> <p>UQ830-PRODUCTION ENGINEERING: Provides for production engineering support of outfitting in meeting OPNAV improved diver-based and unmanned systems fleet inventory objectives. This includes writing of contracts, production contract award, first article tests, factory acceptance tests and other production support efforts directly related to delivery of the support hardware. In addition for EOD equipment, review all technical data packages prior to procurement and providing procurement instructions to the procuring activity.</p> <p>UQ850-PRODUCT IMPROVEMENT: Provides for engineering services to improve fielded EOD Diver-based and unmanned systems to improve Human Systems Integration (HSI)/Logistics domains, insert technology refresh and/or decrease costs.</p> <p>UQ860-ACCEPTANCE, TEST, AND EVALUATION: Test, inspect, and accept first articles and on a 100% basis, the production quantity of EOD tools and equipment being procured. These tools are man-rated and proper functioning of each item must be verified.</p> <p>UQTNG-INITIAL TRAINING: Provides training support packages which include curriculum material and training aids for Underwater EOD/VSW MCM Detachment and Marine Mammal System equipment.</p>		

CLASSIFICATION:			UNCLASSIFIED									
EXHIBIT P-5 COST ANALYSIS				Weapon System						DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code		P-1 LINE ITEM NOMENCLATURE MINESWEEPING EQUIPMENT SUBHEAD NO. 71UQ						
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
	<u>EQUIPMENT</u> <u>EXPEDITIONARY WARFARE</u>											
UQ019	MIW-VIP	A	0.602	0	0.000	0.294	0	0.000	0.280	0	0.000	0.000
UQ034	<u>U/W EOD & VSW SYSTEM/EQUIPMENT</u>											
	VSW/EOD UUV	A	11.722	3	1.608	4.825	2	1.101	2.203	0	0.000	0.000
	UW DIVER INTEGRATION SENSORS	A	0.000	0	0.000	0.000	15	0.159	2.381	0	0.000	0.000
	NEW U/W BREATHING APPARATUS (NUBA)	A	10.889	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	DIVER SAFETY & LIFE SUPPORT EQUIPMENT	A	0.000	0	0.000	0.000	40	0.005	0.200	0	0.000	0.000
UQ035	<u>OUTFIT EOD/VSW MCM TOOLS & EQUIPMENT</u>											
	C4I UPGRADES	A	0.552	0	0.000	0.156	0	0.000	0.183	0	0.000	0.000
UQ037	<u>MARINE MAMMAL SYSTEM/EQUIPMENT</u>											
	MMS ALLOWANCE		0.000	0	0.000	0.252	0	0.000	0.255	0	0.000	0.000
	MMS CIP		0.000	0	0.000	1.760	0	0.000	1.764	0	0.000	0.000
UQ830	PRODUCTION ENGINEERING	A	1.083	0	0.000	2.147	0	0.000	2.066	0	0.000	0.000
UQ850	PRODUCT IMPROVEMENT	A	0.738	0	0.000	0.468	0	0.000	1.063	0	0.000	0.000
UQ860	ACCEPTANCE, TEST & EVALUATION	A	0.415	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
UQTNG	INITIAL TRAINING	A	0.143	0	0.000	0.201	0	0.000	0.225	0	0.000	0.000
	EXPEDITIONARY WARFARE Subtotal		26.144			10.103			10.620			0.000
	TOTAL EQUIPMENT		26.144			10.103			10.620			0.000

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE MINESWEEPING EQUIPMENT BLIN: 0975				SUBHEAD 71UQ	
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										
UQ034 U/W EOD & VSW SYSTEM/EQUIPMENT VSW/EOD UUV	3	1.608	NSWCIHD, MD		FFP	HYDROID, MA	MAY-08	MAY-09	YES	
FY 2009										
UQ034 U/W EOD & VSW SYSTEM/EQUIPMENT VSW/EOD UUV	2	1.101	NSWCIHD, MD		FFP	HYDROID, MA	MAY-09	MAY-10	YES	
UW DIVER INTEGRATION SENSORS	15	0.159	NAVSEA		FFP	ARL, TX	APR-09	APR-10	YES	
DIVER SAFETY & LIFE SUPPORT EQUIPMENT	40	0.005	NSWCPC, FL		FFP	CARLETON, DAVENPORT, IA	APR-09	APR-10	YES	

CLASSIFICATION:		UNCLASSIFIED										
Exhibit P-40, BUDGET ITEM JUSTIFICATION										DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						P-1 LINE ITEM NOMENCLATURE UNDERWATER EOD PROGRAM SUBHEAD NO. BLI: 0977						
Program Element for Code B Items						Other Related Program Elements						
	Prior Years	ID Code	FY 2008	FY 2009	Baseline FY 2010	OCO FY 2010	Total FY 2010					
Quantity	0			0	0	0	0	0	0	0	0	0
COST (In Millions)	0.0			0.0	19.3	12.0	31.3					
SPARES COST (In Millions)	0.0	0		0.0	7.2	0.0	7.2					
PROGRAM DESCRIPTION/JUSTIFICATION:												
Underwater Explosive Ordnance Disposal (EOD): This program supports EOD Groups, Units and Detachments worldwide. This program supplies EOD forces with the necessary diving and diving related equipment to fulfill assigned missions that includes Mine Countermeasures (MCM). All equipment must have inherently low acoustic and magnetic signatures. Program also includes the Marine Mammal System (MMS).												
UQ019-MINE WARFARE VULNERABILITY IDENTIFICATION PROGRAM (MIW-VIP):												
Measures magnetic and acoustic signatures using existing ranges and portable ranges (Forward Area Combined Degaussing and Acoustic Range (FACDAR)). Measurements will be taken in both home port areas and deployment areas to assess a ship's susceptibility to various mines.												
UQ034-UNDERWATER EOD AND VERY SHALLOW WATER (VSW) SYSTEMS/EQUIPMENT:												
VSW/EOD UUV: Provide for the procurement of VSW/EOD Unmanned Underwater Vehicles in support of VSW MCM EOD Operations. This is an Abbreviated Acquisition Program (AAP).												
UUV Continuous Improvement Program (CIP) Retrofit: Provides for the procurement of evolving technology insertion of retrofit upgrades to UUV systems. Upgrades are the result of continuous spiral improvements (CIP) leveraging ONR developed technologies. Retrofit kits are developed based on technologies which have achieved a Technology Readiness level of sufficient maturity for integration into UUV systems. Unit cost of individual retrofit kits may vary based on the number and type of technologies included in each retrofit kit.												
UW DIVER INTEGRATED SENSORS: Provides for the procurement of a tool box based on Modified-Off-The Shelf (MOTS) and mature technologies. Specifically, this provides for more capable diver tools in support of EOD VSW MCM and Mobile Diving & Salvage Unit (MDSU) search, precise navigation and gathering transmitting data.												
ADVANCED FIRING SYSTEMS: Provides for the procurement of EOD Underwater firing systems.												

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE UNDERWATER EOD PROGRAM SUBHEAD NO. BLI: 0977	
<p>DIVER SAFETY & LIFE SUPPORT SYSTEMS: Provides for the procurement of a tool box based on MOTS and mature technologies to provide safer tools and life support systems for EOD VSW MCM and MDSU operations.</p> <p>UQ035-OUTFIT EOD/VSW MCM TOOLS AND EQUIPMENT: C4I UPGRADES: Provides for the upgrade of existing EOD systems to meet C4I requirements.</p> <p>UQ037-MARINE MAMMAL SYSTEM EQUIPMENT: MMS ALLOWANCE: Initial outfitting of tools/equipment for increased allowances of all Fleet MMS in accordance with CNO approved allowance list.</p> <p>MEDICAL OUTFITTING: Provides for initial outfitting of additions to medical specific items to MMS allowance. This equipment enables fleet MMS to meet care requirements articulated in SECNAVINST 3900.41D.</p> <p>MMS ENVIRONMENTAL PEN ASSEMBLIES: Provides extended deployment capabilities of deployed MCM MMS for extended periods of time to areas with varying and sometimes extreme environmental conditions.</p> <p>UNDERWATER LOW MAGNETIC TEST EQUIPMENT UPGRADE: Provides for procurement of equipment for Fleet Remote Site Facility Low Magnetic Certification.</p> <p>MARINE MAMMAL SYSTEM CONTINUOUS IMPROVEMENT PROGRAM (MMS CIP): Provides for engineering changes and initial outfitting of equipment to fleet MMS allowing for reduce footprint, and improved system effectiveness and suitability to meet EOD, Anti-Terrorism (AT)/force Protection (FP), and mission areas.</p> <p>MARINE MAMMAL SYSTEM EQUIPMENT: Procurement to meet Force Protection, Mine Countermeasures, and Very Shallow Water Operational Plans/CONOP plan capabilities in support of Combatant Commander Warplans and to support expeditionary operations and port security in accordance with OPNAV approved Required Capabilities and Projected Operational Environment using civilian and military forces. (OCO)</p> <p>Marine Mammal System (MK 6): Procurement to transition expeditionary Sea Lion based system for MK 6 with Technology upgrades to support world wide AT/FP operations. (OCO)</p> <p>UQ830-PRODUCTION ENGINEERING: Provides for production engineering support of outfitting in meeting OPNAV improved diver-based and unmanned systems fleet inventory objectives. This includes writing of contracts, production contract award, first article tests, factory acceptance tests and other production support efforts directly related to delivery of the support hardware. In addition for EOD equipment, review all technical and data packages prior to procurement and providing procurement instructions to the procuring activity for EOD and MMS production contracts.</p> <p>UQ850-PRODUCT IMPROVEMENT: Provides for engineering services to improve fielded MMS Systems/EOD Diver-based and unmanned systems to improve Human Systems Integration (HSI)/Logistics domains insert technology refresh and/or decrease costs.</p> <p>UQTNG-INITIAL TRAINING: Provides training support packages which include curriculum material and training aids for Underwater EOD/VSW MCM Detachment and Marine Mammal System equipment.</p>		

CLASSIFICATION:		UNCLASSIFIED													
EXHIBIT P-5 COST ANALYSIS				Weapon System									DATE		
APPROPRIATION/BUDGET ACTIVITY				ID Code		P-1 LINE ITEM NOMENCLATURE									
OTHER PROCUREMENT, NAVY/BA 1						UNDERWATER EOD PROGRAM									
				SUBHEAD NO.											
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														
UQ019	MIW-VIP	A	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	288	0	0.000	0.000
UQ034	<u>U/W EOD & VSW SYSTEM/EQUIPMENT</u>														
	VSW/EOD UUV		0.000	0	0.000	0.000	0	0.000	0.000	3	1.650	4.950	0	0.000	0.000
	VSW/EOD UUV RETROFIT UPGRADE	A	0.000	0	0.000	0.000	0	0.000	0.000	6	0.400	2.400	0	0.000	0.000
	ADVANCED FIRING SYSTEM	A	0.000	0	0.000	0.000	0	0.000	0.000	35	0.020	0.700	0	0.000	0.000
	DIVER SAFETY LIFE SUPPORT EQUIPMENT	A	0.000	0	0.000	0.000	0	0.000	0.000	5	0.300	1.500	0	0.000	0.000
UQ035	<u>OUTFIT EOD/VSW MCM TOOLS & EQUIPMENT</u>														
	C4I UPGRADES	A	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.190	0	0.000	0.000
UQ037	<u>MARINE MAMMAL SYSTEM/EQUIPMENT</u>														
	MMS ALLOWANCE		0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.260	0	0.000	0.000
	MEDICAL OUTFITTING		0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.320	0	0.000	0.000
	MMS ENVIRON PEN ASSEMBLIES		0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	3.549	0	0.000	0.000
	UW LOW MAGNETIC TEST EQUIPM UPGRADE		0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.156	0	0.000	0.000
	MMS CIP		0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	1.310	0	0.000	0.000
	MARINE MAMMAL SYSTEM (MMS) - MK 4, MK 6, MK 7, & MK 8 (OCO)		0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	5.040
	MARINE MAMMAL SYSTEM (MMS) - MK 6 (OCO)		0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	7.000
UQ830	PRODUCTION ENGINEERING	A	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	1.752	0	0.000	0.000
UQ850	PRODUCT IMPROVEMENT	A	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	1.612	0	0.000	0.000
UQTNG	INITIAL TRAINING	A	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.245	0	0.000	0.000
	EXPEDITIONARY WARFARE Subtotal		0.000			0.000			0.000			19.232			12.040
	TOTAL EQUIPMENT		0.000			0.000			0.000			19.232			12.040

CLASSIFICATION:		UNCLASSIFIED											
EXHIBIT P-5 COST ANALYSIS											DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						P-1 LINE ITEM NOMENCLATURE UNDERWATER EOD PROGRAM SUBHEAD NO.							
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									TOTAL	
			Total FY 2010										
			Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Total Cost
	<u>EQUIPMENT</u> <u>EXPEDITIONARY WARFARE</u>												
UQ019	MIW-VIP	A	0	0.000	0.288							0	0.288
UQ034	<u>UW EOD & VSW SYSTEM/EQUIPMENT</u>												
	VSW/EOD UUV		3	1.650	4.950							3	4.950
	VSW/EOD UUV RETROFIT UPGRADE	A	6	0.400	2.400							6	2.400
	ADVANCED FIRING SYSTEM	A	35	0.020	0.700							35	0.700
	DIVER SAFETY LIFE SUPPORT EQUIPMENT	A	5	0.300	1.500							5	1.500
UQ035	<u>OUTFIT EOD/VSW MCM TOOLS & EQUIPMENT</u>												
	C4I UPGRADES	A	0	0.000	0.190							0	0.190
UQ037	<u>MARINE MAMMAL SYSTEM/EQUIPMENT</u>												
	MMS ALLOWANCE		0	0.000	0.260							0	0.260
	MEDICAL OUTFITTING		0	0.000	0.320							0	0.320
	MMS ENVIRON PEN ASSEMBLIES		0	0.000	3.549							0	3.549
	UW LOW MAGNETIC TEST EQUIPM UPGRADE		0	0.000	0.156							0	0.156
	MMS CIP		0	0.000	1.310							0	1.310
	MARINE MAMMAL SYSTEM (MMS) - MK 4, MK 6, MK 7, & MK 8		0	0.000	5.040							0	5.040
	MARINE MAMMAL SYSTEM (MMS) - MK 6		0	0.000	7.000							0	7.000
UQ830	PRODUCTION ENGINEERING	A	0	0.000	1.752							0	1.752
UQ850	PRODUCT IMPROVEMENT	A	0	0.000	1.612							0	1.612
UQTNG	INITIAL TRAINING	A	0	0.000	0.245							0	0.245
	EXPEDITIONARY WARFARE Subtotal				31.272								31.272

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE UNDERWATER EOD PROGRAM BLIN: 0977				SUBHEAD	
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 2010										
UQ034 U/W EOD & VSW SYSTEM/EQUIPMENT										
VSW/EOD UUV	3	1.650	NSWCIHD, MD		FFP	HYDROID, MA	APR-10	APR-11	YES	
VSW/EOD UUV RETROFIT UPGRADE	6	0.400	NSWCIHD, MD		FFP	TBD	APR-10	APR-11		
ADVANCED FIRING SYSTEM	35	0.020	TBD		FFP	TBD	APR-10	APR-11		
DIVER SAFETY LIFE SUPPORT EQUIPMENT	5	0.300	NSWCIHD, MD		FFP	TBD	APR-10	APR-11		

CLASSIFICATION:		UNCLASSIFIED										
Exhibit P-40, BUDGET ITEM JUSTIFICATION										DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						P-1 LINE ITEM NOMENCLATURE ITEMS LESS THAN \$5M SUBHEAD NO. 81LT, 61LT BLI: 0981						
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)	159.3			189.8	130.1	127.6						
SPARES COST (In Millions)	0.0			5.5	4.9	2.7						
PROGRAM DESCRIPTION/JUSTIFICATION: This budget provides for "S" cognizance (Shipboard, Hull, Mechanical & Electrical (HM&E)) equipment for submarines, surface ships, and aircraft carriers which are not in any specific category. These equipments accomplish Program alterations for installation during CNO and Fleet availabilities, fill Fleet requisitions from casualties and attrition, provide tech refresh upgrades, and replace obsolete equipment. Primary objectives are to maintain or improve readiness, safety, reliability, reduce workload, lower maintenance costs, improve sailor quality of life, and/or sustain ship classes through their notional life or beyond. The budget purchases and installs various equipments including machinery pumps, generators, ships propellers and shafts, air compressors, davits, A/C Plants, steam propulsion items etc. and procures allowance items as required by the Coordinated Shipboard Allowance List (COSAL). Major programs are the FFG7 Class Modernization, LPD 17 Class Upgrades, Landing Craft Air Cushion, MACHALTs and Carrier Smart Ship. LT010 - LANDING CRAFT AIR CUSHION (LCAC) This line will fund material procurement and SHIPALT installation and design for the LCAC Fleet Modernization Program (FMP). Funds in this line are for modifications on the craft to enhance military capabilities directed by CNO or technical characteristics when warranted by reason of safety, reliability and/or cost effectiveness. Advanced technology used in LCAC demands constant and continual modifications to ensure proper mission performance and maintain craft configuration. In addition, funding will also support modification on two Full Mission Trainers (FMT). LT020 - SUPPORTING ARMS COORDINATION CENTER (SACC) AUTOMATION The SACC initiative will automate the communications and data flow for fire and supporting arms for marine forces ashore. This effort will convert the current manual and voice accomplished process. It will also provide interface with the Advanced Field Artillery Tactical Data System (AFATDS) which brings the automated functions of supporting arms into the coherent tactical picture. The procurement items are jam boxes, Automated Distribution Network Systems (ADNS), racks, workstations, and communications devices. LT040 - AEC (ASSESSMENT OF EQUIPMENT CONDITION) This supports the implementation of Condition Based Maintenance (CBM) by providing work package validation for HM&E systems, pre-deployment HM&E systems condition assessment, OJT and repair assistance to ships during TYCOMs TARGET process. These funds are for the outfitting and periodic replacement of the AEC team's Test Measurement and Diagnostic Equipment (TMDE) inventories, provide deckplate diagnostic capability to improve the quality of AEC process and products												

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Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE ITEMS LESS THAN \$5M SUBHEAD NO. 81LT, 61LT BLI: 0981	
<p>and to leverage technology to streamline the visit process.</p> <p>LT060 - MACHALTS The Machinery Alteration Program (MACHALT) is a program that permits changes to HM&E equipment and systems where the changes are contained within the boundaries of the individual equipment of systems and have limited system ramifications.</p> <p>LT070 - FFG 7 CLASS MODERNIZATION This program presently consists of 29 ships with the Coherent Radar Transmitter (CORT) baseline having priority. The shipalts presented in the budget are ships service diesel engines (SSDGs), reverse osmosis (RO) distilling plants, and slewing arm davits (SLADs).</p> <p>LT090 - LCS The LCS class ships will be propelled by waterjets and marine gas turbines. These items are designed to be removable and repaired at a depot. These items will be designated 2Scog material. Each ship will have 2 Marine Gas Turbines and 4 waterjets.</p> <p>LT110- VARIOUS PROPELLERS AND SHAFTS A malfunctioning propeller or shaft can result in excessive vibration, noise, loss of speed or possible loss of motion. In addition, these items are susceptible to damage, have long repair lead time, and due to their increased size and weight, are becoming more difficult to transport. It is mandatory to store propellers/shafts at sufficient locations to avoid delaying ship's deployments. It should be noted that in addition to new propellers and shafts required to support active fleet ships, planning for spares to support ship classes still under construction and new ship classes being introduced such as DDG-51, must be accommodated. These propellers and shafts can be installed during drydocking, Selected Restricted Availability or Regular Overhaul and in the event of a casualty, propellers can be waterborne installed alongside a tender.</p> <p>The Inventory Objective (I.O.) for propellers and shafts is a numerical quantity referred to as the "Maintenance Stock Objectives" (MSO). The MSO is a numerical quantity established for each propeller and shaft after considering: (1) the average annual demand, (2) repair lead time, (3) safety level or the quantity required to be on hand to support unpredictable fluctuations in demand or delays in the normal refit cycle, (4) transportability considerations, and (5) Type Commanders review and recommendations. For ships entering the Fleet from the shipbuilding programs, the I.O.'s annual demand is based upon experience with similar type propellers and shafts for which supply/demand experience has been gained.</p> <p>LT120 - PROPULSION PLANT INSPECTION TOOLING Funds will be utilized to procure latest technology inspection system tooling, i.e., laser-optic, ultrasonic, fiber-optic and electro-optic inspection systems.</p> <p>LT130 - STEAM PROPULSION ITEMS This provides for several initiatives oriented to upgrading boiler efficiency and safety with downstream maintenance effectiveness. In particular, the items procured include GIS Safety Valves, Compact Water Jet Units, Low Level Conductivity Meters, WMB Recirculating Pump Improvement Items, Hydrostatic Tube Kits, and Chloride Meters. The Steam Propulsion Improvement Program provides for ship movement through the water and in addition provides power to ships combat and habitability systems, whether electrical or steam dependent. At any given time, due to propulsion plant casualties ship propulsion systems may be operating at reduced capability, adversely affecting the ship's mission(s). The Steam Propulsion Improvement program encompasses steam and diesel propulsion surface ships in the fleet, and provides for material upgrades to propulsion systems resulting in increased readiness, safety and reliability. Items can be installed during</p>		

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE ITEMS LESS THAN \$5M SUBHEAD NO. 81LT, 61LT BLI: 0981	
<p>a Regular Overhaul (ROH), Selected Restricted Availability (SRA), Restricted availability by a shipyard, tender/Intermediate Maintenance Activity or Alteration Installation Team (AIT).</p> <p>LT140 - SMART SHIP This provides for the procurement and installation of proven initiatives into Navy Aircraft Carriers. The Carrier initiatives include the installation of core Smart Carrier technologies, such as Advanced Damage Control System, Integrated Condition Assessment System (ICAS) and JP-5 Automation. Smart Carrier will also demonstrate smart technologies such as On-Board Training Software and Automated Systems Logs, and integrate additional systems alarms into ICAS. The goal of the Smart Ship effort is to implement solutions which demonstrate major workload reductions and reduce operations and maintenance costs while maintaining or improving readiness. Lessons learned and technology previously demonstrated on ships such as the CG47, LSD47 and in aircraft carriers have confirmed the value and applicability of Smart Ship Technologies and will result in future life cycle cost avoidance in manpower and ship maintenance.</p> <p>LT150 - ICAS Procure tall technical refresh upgrades of the ICAS hardware and software aboard Surface Combatant hulls. Upgrades will include ICAS workstation hardware, to include Palm Pilot PDTs, ICAS system software to latest version, CDS groom to include the implementation of developed enhancements. Ship's force refresher training. Manage contractor efforts, prepare installation plans, perform ship checks, procure material, oversee shipboard installation and QA, develop/implement CDS updates, install/test all software and CDSs, provide ship's force training.</p> <p>LT160 - MACHINERY PLANT UPGRADES (ICAN/DDCN) ICAN/DDCN provides core infrastructure (node rooms, air blown fiber optic cable plant, network services) for integrating voice, video and data systems. This capability is easily upgradeable for rapid and cost effective expansion to support new technologies, such as IT-21, and is compatible with the Navy integrated Information Networks MOA.</p> <p>LT240 - LPD 17 HARDWARE/SOFTWARE OBSOLESCENCE, SHORE-BASED SPARES, FORCENET UPGRADE, & CAPABILITY/SAFETY UPGRADES This effort addresses hardware obsolescence/technology refreshment issues, shored-based spares, the DoD-mandated ForceNet Upgrade (IPv6) requirement, and class upgrades focused on increased capabilities, force protection, and safety. Funding is required to upgrade mission critical electronic systems including the Engineering Control Systems (ECS), Ship Control Systems (SCS), Degaussing System, Shipboard Wide-Area Network (SWAN), commercial software products for ECS, SCS, C4ISR and Administrative Communications. Funding is required for procurement of Shore-Based Spares in support of the LPD 17 deployed assets. Shore based spares are critical long lead time items that will be staged shoreside in case of catastrophic failure. Funding is also required to support Network (SWAN) hardware/software obsolescence corrections which have been accelerated as a result of DoD's mandate for ForceNet Upgrade compliance. Failure to meet this compliance requirement will negatively impact communication with other platforms/systems via NIPRNET, SIPRNET, and related methods. Finally, funding is required to procure/install high-priority USMC HF ALE, a system that significantly increases the probability of reliable USMC ship to shore communications between embarked and disembarked USMC operating forces.</p> <p>LT280 - MISCELLANEOUS FORCE PROTECTION EQUIPMENT Funding is to procure equipment to support the force protection initiative for selected ships in the DDG-51 Class.</p> <p>LT306 - AUTOMATED VOLTAGE REGULATOR The Automated Voltage Regulator replaces the obsolete legacy regulator within CVN 68 Class turbine generators. The regulator is a digital, variable frequency</p>		

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE ITEMS LESS THAN \$5M SUBHEAD NO. 81LT, 61LT BLI: 0981	
<p>mil-spec unit unique to this class of ship.</p> <p>LT308 - LHD MIDLIFE, LHA MIDLIFE/SUSTAINMENT Procurement of Air Conditioning Plant for LHD1; Procurement of Boat (RIB) Davits for LHA and LHD Class Ships.</p> <p>LT309 - LSD SUSTAINMENT The LSD Mid-Life Program replaces obsolete/unsupported HM&E systems, and implements Total Operating Cost (TOC) savings upgrades to maintain amphibious warfare capabilities through DECOM (2036). These include items such as Low Pressure Air Compressors (LPAC), Steering Control Systems (SCS), A/C-plants, Generators, Propulsion Efficiency improvement components, and Reverse Osmosis (RO) Desalinators. Beginning in FY2009, LSD Midlife Program funding is transferred to OPN 1610.</p> <p>LTCA8 - CARRIER NEW DESIGN PROPELLERS (FY08 CONGRESSIONAL ADD/ FY09 CONGRESSIONAL ADD) The New Design Propeller replaces high-maintenance legacy propellers on the NIMITZ (CVN-68) Class aircraft carrier, eliminating the operational impacts of unscheduled propeller replacements.</p> <p>LT313 - AS-39 MODERNIZATION Modifications to correct obsolescence and safety issues on AS39 Class tenders in order to maintain, improve, and extend the service life of a class of two ships. Upgrades include, procurement and replacement of obsolete mission critical Industrial Plant Equipment, procurement and installation of switchboards, and upgrades to the steam propulsion plant.</p> <p>LT316 - PATROL COASTAL MODERNIZATION Funding is to upgrade/modernize Patrol Coastal Class Ships in order to maintain capability to meet current mission requirements. Includes main engine replacement, communications and HM&E upgrades.</p> <p>LT830 - PRODUCTION ENGINEERING The review and approval of any production contract technical documentation, or the separate development of this documentation to include: Technical Manuals, Planned Maintenance System (PMS), Level III Production Drawings, Provisioning Technical Documentation (PTD), Program Support Data (PSD), and Allowance Parts List (APL); engineering support for final design reviews.</p> <p>LT5IN, LT6IN, LT7IN, LT8IN- INSTALLATION OF EQUIPMENT Funding is for installation of equipment in support of the Fleet Modernization Program (FMP).</p> <p>LTCA4- CANNED LUBE PUMP (FY08 CONGRESSIONAL ADD/FY09 CONGRESSIONAL ADD) The Canned Lube Oil Pump (CLOP) will replace the existing MPDE Standby Lube Oil Pumps which are obsolete and maintenance intensive. The existing LOPs are equipped with mechanical shaft seals and motor to pump couplings that have both a high failure rate and are causing additional maintenance costs per ship per year. CLOPs require no seal replacements, no coupling lubrication or complicated alignment and have only (3) wearing parts.</p> <p>LTCB2 - LSD 49 CLASS 30 TON CRANE (FY08 CONGRESSIONAL ADD) Funds LSD 49 Class 30 Ton Crane Controls Replacement.</p> <p>LTCB4 - JP-5 MANIFOLD (GLOBE) ELECTRIC VALVE OPERATOR (EVO) (FY08 CONGRESSIONAL ADD / FY09 CONGRESSIONAL ADD) This provides for the procurement and installation of JP-5 Electric Valve Operators in support of Aircraft Carriers. JP-5 Electric Valve Operators control the flow of aircraft fuel from the storage tanks to the flight deck of aircraft carriers during flight operations and ballasting. There are 430 of these manifold</p>		

CLASSIFICATION:	UNCLASSIFIED		
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)			DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE ITEMS LESS THAN \$5M SUBHEAD NO. 81LT, 61LT BLI: 0981		
<p>valve operators onboard each Nimitz-Class carrier. Current generation valve operators are prone to frequent breakdowns, replacement and servicing, and leakage that create environmental challenges and fire hazards. Funding would help to sustain production and installation of JP 5 Manifold (globe) Electric Valve Operators (EVO) on Nimitz-Class Aircraft Carrier aviation fueling systems and would support an EVO upgrade of old generation valve operators.</p> <p>LTCB5 - SHIPBOARD NETWORK PROTECTIVE SYSTEM (FY08 CONGRESSIONAL ADD / FY09 CONGRESSIONAL ADD) Funds procure, accredit and install High Security Firewall System (HFS) aboard CG, DDG, FFG and CVN ship classes. This will allow HME Data to directly transfer ashore, via the DS Server/IT21 Network while providing security protection to the HME Control systems.</p> <p>LTCB6 - LSD 41/49 DIESEL ENGINE LOW LEVEL LOAD (FY08 CONGRESSIONAL ADD / FY09 CONGRESSIONAL ADD) The Ship Service Diesel Generator (SSDG) low load kits for the LSD 41 class consisting of a programmable logic controller for blower bypass and jacket cooling water control in each auxiliary machinery room.</p> <p>LTCB7-THE REMOTE MONITORING AND TROUBLESHOOTING (RMAT) PROJECT (FY09 CONGRESSIONAL ADD) The Remote Monitoring and Troubleshooting (RMAT) Project will provide global remote sustainment support to the operational Fleet. RMAT will provide the means for remotely reading existing on-board sensors, monitoring shipboard system status and innovatively supporting ship operations. RMAT will be commanded from a remote location by utilizing state-of-the-art technologies in the area of information management, high speed data networks, advanced sensor devices, video hardware/software, and expert systems in order to more efficiently provide and support Fleet operating units ready for tasking.</p>			

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS				Weapon System						DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code		P-1 LINE ITEM NOMENCLATURE ITEMS LESS THAN \$5M SUBHEAD NO. 81LT, 61LT						
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
	<u>EQUIPMENT</u> <u>WARFARE</u>											
LT280	MISC FORCE PROTECTION EQUIP		0.733	0	0.000	0.583	0	0.000	0.000	0	0.000	0.000
	WARFARE Subtotal		0.733			0.583			0.000			0.000
	<u>EXPEDITIONARY WARFARE</u>											
LT010	MOD KITS LAND CRAFT CUSHION		0.000	0	0.000	6.255	0	0.000	6.413	0	0.000	5.105
LT020	SACC AUTOMATION		0.000	0	0.000	0.499	0	0.000	0.000	0	0.000	0.000
LT060	MACHALTS (AMPHIB SHIPS)		0.000	0	0.000	2.178	0	0.000	2.512	0	0.000	1.509
LT110	<u>PROPELLERS AND SHAFTS</u>											
	LHD 8 SHAFTS		0.000	0	0.000	0.000	0	0.000	0.000	1	2.179	2.179
LT240	<u>LPD 17</u>											
	HF ALE		0.600	1	0.600	0.600	1	0.600	0.600	1	0.600	0.600
	CFE TRANSITION TO GFE LCS		0.000	0	0.000	0.000	0	0.000	1.800	0	0.000	0.669
	LPD 17 HW/SW OBSOLESCENCE		0.000	0	0.000	2.158	0	0.000	1.480	0	0.000	0.880
	FORCENET UPGRADE (IPV6)		7.000	1	7.202	7.202	1	6.999	6.999	1	5.946	5.946
	SHORE BASED SPARES		0.583	0	0.000	20.241	0	0.000	0.000	0	0.000	0.000
LT308	<u>LHD MIDLIFE, LHA MIDLIFE/SUSTAINABILITY</u>											
	BOAT (RIB) DAVITS		7.725	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	A/C PLANTS		1.400	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	REVERSE OSMOSIS (RO) UNITS		0.800	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 1				ID Code		P-1 LINE ITEM NOMENCLATURE ITEMS LESS THAN \$5M SUBHEAD NO. 81LT, 61LT						
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
LT309	<u>LSD MIDLIFE UPGRADES</u>											
	RO & GENERATORS		32.150	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	CANNED LUBE OIL PUMP		0.580	1	0.592	0.592	0	0.000	0.000	0	0.000	0.000
	PROPELLER BLADES & PLMU		1.314	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	STEERING CONTROL SYSTEM		2.781	1	1.163	1.163	0	0.000	0.000	0	0.000	0.000
	A/C PLANT (LSD 41 - 43)		2.260	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	A/C PLANT (LSD 44 - 52)		0.970	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	LOW PRESSURE AIR COMPRESSOR		1.038	2	0.753	1.506	0	0.000	0.000	0	0.000	0.000
LTCA4	CANNED LUBE OIL PUMP		1.000	0	0.000	1.600	0	0.000	2.000	0	0.000	0.000
LTCB2	LSD 49 CLASS 30 TON CRANE		3.200	0	0.000	3.200	0	0.000	0.000	0	0.000	0.000
LTCB5	SHIPBOARD NETWORK PROTECTION		0.000	0	0.000	0.000	0	0.000	1.600	0	0.000	0.000
LTCB6	LSD 41/49 DIESEL ENGINE LOW LEVEL		0.000	0	0.000	3.200	0	0.000	0.000	0	0.000	0.000
	EXPEDITIONARY WARFARE Subtotal		63.401			50.394			23.404			16.888
	<u>SURFACE WARFARE</u>											
LT040	AEC		0.000	0	0.000	0.414	0	0.000	0.411	0	0.000	0.436
LT060	MACHALTS (SURFACE SHIPS)		0.000	0	0.000	5.009	0	0.000	6.560	0	0.000	8.883
LT070	<u>FFG7 CLASS MODERNIZATION</u>											
	SLEWING ARM DAVITS (SLADS)		6.490	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	REVERSE OSMOSIS		13.300	2	0.582	1.164	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 1				ID Code		P-1 LINE ITEM NOMENCLATURE ITEMS LESS THAN \$5M SUBHEAD NO. 81LT, 61LT						
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
	SSDG (SHIPSET=4 GENERATORS)		21.302	1	1.581	1.581	3	1.463	4.389	2	1.730	3.460
LT090	<u>LCS</u>											
	WATER JET FULL UNIT		0.000	0	0.000	0.000	0	0.000	0.000	4	0.455	1.820
	NAVIGATION/IBS		0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	1.145
	WATER JET CARTRIDGE		0.000	1	0.200	0.200	0	0.000	0.000	5	0.227	1.133
LT110	<u>PROPELLERS AND SHAFTS</u>											
	STERN TUBE DDG51 CL		0.000	2	0.750	1.500	3	0.751	2.253	3	0.750	2.250
	PROP SHAFT DDG-51 CL		0.000	2	0.800	1.600	3	0.820	2.460	4	0.779	3.117
	BLADE SET PORT/STBD, DDG51 CL		0.000	0	0.000	0.000	1	0.503	0.503	2	0.504	1.008
	HUB SET PORT/STBD DDG51 CL		0.000	1	0.491	0.491	3	0.491	1.473	2	0.491	0.982
LT130	STEAM PROPULSION ITEMS		0.000	0	0.000	0.288	0	0.000	0.297	0	0.000	0.304
LT150	ICAS		0.000	0	0.000	1.304	0	0.000	1.335	0	0.000	0.000
LT316	<u>PATROL COASTAL MODERNIZATION</u>											
	DIESEL GENERATOR		0.000	1	0.250	0.250	8	0.275	2.200	0	0.000	0.000
	HVAC UPGRADES		0.000	1	0.290	0.290	8	0.306	2.450	0	0.000	0.000
LTCB5	SHIPBOARD NETWORK PROTECTION		0.000	0	0.000	1.600	0	0.000	0.000	0	0.000	0.000
LTCB7	REMOTE MONITORING AND TROUBLESHOOTING		0.000	0	0.000	0.000	0	0.000	2.500	0	0.000	0.000
	SURFACE WARFARE Subtotal		41.092			15.691			26.831			24.538
	<u>SUBMARINE WARFARE</u>											

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)				Weapon System						DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code		P-1 LINE ITEM NOMENCLATURE ITEMS LESS THAN \$5M SUBHEAD NO. 81LT, 61LT						
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
LT313	<u>AS-39 MODERNIZATION</u>											
	REPLACE OBSOLETE IPE		0.000	2	0.492	0.984	1	0.478	0.478	2	0.460	0.919
	ELEVATOR UPGRADES		0.000	1	0.690	0.690	0	0.000	0.000	1	0.703	0.703
	MAIN PROPULSION		2.118	1	2.774	2.774	0	0.000	0.000	0	0.000	0.000
	ELECTRICAL UPGRADES		0.000	1	0.500	0.500	0	0.000	0.000	0	0.000	0.000
	SUBMARINE WARFARE Subtotal		2.118			4.948			0.478			1.622
	<u>AIR WARFARE</u>											
LT120	PROPULSION PLANT INSPECTION		0.000	0	0.000	0.175	0	0.000	0.172	0	0.000	0.173
LT140	SMARTSHIP		22.221	1	13.612	13.612	1	15.420	15.420	1	17.005	17.005
LT160	MACHINERY PLANT UPGRADES		17.956	1	2.700	2.700	2	2.700	5.400	2	2.950	5.900
LT306	<u>AUTO VOLTAGE REGULATOR PROGRAM</u>											
	AUTO VOLTAGE REGULATOR		6.136	0	0.000	0.000	4	0.446	1.782	24	0.453	10.866
	FIELD ENGINEERING SERVICES		0.000	0	0.000	0.000	0	0.000	0.567	0	0.000	1.500
LT830	PRODUCTION ENGINEERING		0.000	0	0.000	0.038	0	0.000	0.039	0	0.000	0.040
LTCA8	CARRIER NEW DESIGN PROPELLER		5.650	8	0.700	5.600	8	0.625	5.000	0	0.000	0.000
LTCB4	JP-5 MANIFOLD (GLOBE) ELECTRIC VALVE OPERATOR (EVO)		0.000	85	0.019	1.600	125	0.019	2.400	0	0.000	0.000
	AIR WARFARE Subtotal		51.963			23.725			30.780			35.484
	TOTAL EQUIPMENT		159.307			95.341			81.493			78.532

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)				Weapon System						DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code		P-1 LINE ITEM NOMENCLATURE ITEMS LESS THAN \$5M SUBHEAD NO. 81LT, 61LT						
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
	<u>INSTALLATION</u>											
LT5IN	INSTALL OF EQUIPMENT EXPEDITIONARY WARFARE		0.000	0	0.000	60.645	0	0.000	19.111	0	0.000	21.291
LT6IN	INSTALL OF EQUIPMENT SURFACE WARFARE		0.000	0	0.000	16.459	0	0.000	16.461	0	0.000	11.855
LT7IN	INSTALL OF EQUIPMENT SUBMARINE WARFARE		0.000	0	0.000	2.664	0	0.000	3.382	0	0.000	2.670
LT8IN	INSTALL OF EQUIPMENT AIR WARFARE		0.000	0	0.000	14.737	0	0.000	9.682	0	0.000	13.206
	TOTAL INSTALLATION		0.000			94.505			48.636			49.022
	TOTAL		159.307			189.846			130.129			127.554
Comment: Beginning in FY 2009, LSD Midlife Program funding is transferred to OPN 1610.												

CLASSIFICATION:		UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE ITEMS LESS THAN \$5M BLIN: 0981				SUBHEAD 81LT, 61LT		
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											
LT240 LPD 17											
HF ALE	1	0.600	NAVSEA		SS	BAE, SAN DIEGO, CA	OCT-07	APR-08			
FORCENET UPGRADE (IPV6)	1	7.202	NAVSEA		CPIF	RAYTHEON CO SAN DIEGO, CA	DEC-07	MAY-08			
LT309 LSD MIDLIFE UPGRADES											
CANNED LUBE OIL PUMP	1	0.592	NSWC, PHILA		OPTION	IMO PUMPS	MAR-08	JUN-08			
STEERING CONTROL SYSTEM	1	1.163	NSWC, PHILA		FFP (OPT)	HENSCHEL	FEB-08	JAN-09			
LOW PRESSURE AIR COMPRESSOR	2	0.753	NSWC, PHILA		OPTION	RIX	JAN-08	FEB-09			
LT070 FFG7 CLASS MODERNIZATION											
REVERSE OSMOSIS	2	0.582	NSWC, PHILA		FP (OPT)	AQUA-CHEM INC, KNOX TN	NOV-07	MAY-08			
SSDG (SHIPSET=4 GENERATORS)	1	1.581	NSWC, PHILA		FP (OPT)	CATERPILLAR, PEORIA IL	NOV-07	JUL-08			
LT090 LCS											
WATER JET CARTRIDGE	1	0.200	NAVICP, MECH		FP	VARIOUS	JUN-08	JUL-09			
LT110 PROPELLERS AND SHAFTS											
HUB SET PORT/STBD DDG51 CL	1	0.491	NAVICP, MECH		FP(OPT)	ROLLS ROYCE NAVAL MARINE	JUN-08	MAY-10			
STERN TUBE DDG51 CL	2	0.750	NAVICP		FP(OPT)	ERIE FORGE	JUN-08	MAY-10			
PROP SHAFT DDG-51 CL	2	0.800	NAVICP		FP(OPT)	ERIE FORGE	JUN-08	MAY-10			
LT316 PATROL COASTAL MODERNIZATION											
HVAC UPGRADES	1	0.290	NSWC PHILA		FP	VARIOUS	MAY-08	SEP-08			
DIESEL GENERATOR	1	0.250	NSWC PHILA		FP	VARIOUS	MAY-08	SEP-08			
LT313 AS-39 MODERNIZATION											
MAIN PROPULSION	1	2.774	NSWC, PHILA		FP	VARIOUS	JAN-08	JUN-08			
ELECTRICAL UPGRADES	1	0.500	NSWC PHILA		FP	VARIOUS	JAN-08	MAY-08			
ELEVATOR UPGRADES	1	0.690	NSWC, PHILA		FP	VARIOUS	JUN-08	JUN-09			
REPLACE OBSOLETE IPE	2	0.492	NSWC PHILA		FP	VARIOUS	MAR-08	MAR-09			
LT140											
SMARTSHIP	1	13.612	NSWC, PHILA		VARIOUS	VARIOUS	DEC-07	FEB-08			
LT160											

CLASSIFICATION:		UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE ITEMS LESS THAN \$5M BLIN: 0981				SUBHEAD 81LT, 61LT		
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	
MACHINERY PLANT UPGRADES LTCA8	1	2.700	NSWC, PHILA		VARIOUS	VARIOUS	DEC-07	MAR-08			
CARRIER NEW DESIGN PROPELLER LTCB4	8	0.700	NAVICP, MECH		FP	ROLLS ROYCE, PASC MS	AUG-08	JUN-10			
JP-5 MANIFOLD (GLOBE) ELECTRIC VALVE OPERATOR (EVO)	85	0.019	NSWC, PHILA		FP	CURTISS-WRIGHT, FRMDL NY	JUN-08	MAR-09			
FY 2009											
LT240 LPD 17											
HF ALE	1	0.600	NAVSEA		SS	BAE, SAN DIEGO, CA	FEB-09	AUG-09			
FORCENET UPGRADE (IPV6)	1	6.999	NAVSEA		CPIF	RAYTHEON CO SAN DIEGO, CA	FEB-09	JUL-09			
LT070 FFG7 CLASS MODERNIZATION											
SSDG (SHIPSET=4 GENERATORS)	3	1.463	NSWC, PHILA		FP (OPT)	CATERPILLAR, PEORIA IL	JUN-09	DEC-09			
LT110 PROPELLERS AND SHAFTS											
BLADE SET PORT/STBD, DDG51 CL	1	0.503	NAVICP		FP (OPT)	ROLLS ROYCE NAVAL MARINE	JAN-09	JUL-11			
HUB SET PORT/STBD DDG51 CL	3	0.491	NAVICP		FP (OPT)	ROLLS ROYCE NAVAL MARINE	JAN-09	JUL-11			
STERN TUBE DDG51 CL	3	0.751	NAVICP		FP (OPT)	ERIE FORGE	JAN-09	JUL-11			
PROP SHAFT DDG-51 CL	3	0.820	NAVICP		FP (OPT)	ERIE FORGE	JAN-09	JUL-11			
LT316 PATROL COASTAL MODERNIZATION											
HVAC UPGRADES	8	0.306	NSWC, PHILA		FP	VARIOUS	JAN-09	MAY-09			
DIESEL GENERATOR	8	0.275	NSWC, PHILA		FP	VARIOUS	JAN-09	MAY-09			
LT313 AS-39 MODERNIZATION											
REPLACE OBSOLETE IPE	1	0.478	NSWC, PHILA		FP	VARIOUS	SEP-09	SEP-10			
LT140											
SMARTSHIP	1	15.420	NSWC, PHILA		VARIOUS	VARIOUS	DEC-08	FEB-09			
LT160											
MACHINERY PLANT UPGRADES	2	2.700	NSWC, PHILA		VARIOUS	VARIOUS	DEC-08	MAR-09			
LT306 AUTO VOLTAGE REGULATOR PROGRAM											
AUTO VOLTAGE REGULATOR	4	0.446	NAVSEA		CPFF	NG P/CS	JUN-09	JAN-11			
LTCA8											

CLASSIFICATION:		UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE ITEMS LESS THAN \$5M BLIN: 0981				SUBHEAD 81LT, 61LT		
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	
CARRIER NEW DESIGN PROPELLER LTCB4	8	0.625	NAVICP, PHILA		FP	ROLLS ROYCE, PASC MS	AUG-09	JUN-11			
JP-5 MANIFOLD (GLOBE) ELECTRIC VALVE OPERATOR (EVO)	125	0.019	NSWC, PHILA		FP	CURTISS-WRIGHT, FRMDL NY	JUN-09	MAR-10			
FY 2010											
LT110 PROPELLERS AND SHAFTS											
LHD 8 SHAFTS	1	2.179	NAVICP		FP (OPT)	ERIE FORGE	JUN-10	MAY-11			
LT240 LPD 17											
HF ALE	1	0.600	NAVSEA		SS	BAE, SAN DIEGO, CA	OCT-09	APR-10			
FORCENET UPGRADE (IPV6)	1	5.946	NAVSEA		CPIF	RAYTHEON CO SAN DIEGO CA	DEC-09	MAY-11			
LT070 FFG7 CLASS MODERNIZATION											
SSDG (SHIPSET=4 GENERATORS)	2	1.730	NSWC, PHILA		FP (OPT)	CATERPILLAR, PEORIA, IL	NOV-09	JUL-10			
LT090 LCS											
WATER JET FULL UNIT	4	0.455	NAVICP		FP	WARTSILLA, CHESAPEAKE, VA	AUG-10	AUG-12			
WATER JET CARTRIDGE	5	0.227	NAVICP		FP	ROLLS ROYCE NAVAL MARINE	AUG-10	AUG-12			
LT110 PROPELLERS AND SHAFTS											
BLADE SET PORT/STBD, DDG51 CL	2	0.504	NAVICP		FP (OPT)	ROLLS ROYCE NAVAL MARINE	JAN-10	JUL-12			
HUB SET PORT/STBD DDG51 CL	2	0.491	NAVICP		FP (OPT)	ROLLS ROYCE NAVAL MARINE	JAN-10	JUL-12			
STERN TUBE DDG51 CL	3	0.750	NAVICP		FP(OPT)	ERIE FORGE	JAN-10	JUL-12			
PROP SHAFT DDG-51 CL	4	0.779	NAVICP		FP (OPT)	ERIE FORGE	JAN-10	JUL-12			
LT313 AS-39 MODERNIZATION											
ELEVATOR UPGRADES	1	0.703	NSWC PHILA		FP	TBD	JUN-10	JUN-11			
REPLACE OBSOLETE IPE	2	0.460	NSWC PHILA		FR	TBD	MAR-10	MAR-11			
LT140											
SMARTSHIP	1	17.005	NSWC, PHILA		VARIOUS	VARIOUS	DEC-09	FEB-10			
LT160											
MACHINERY PLANT UPGRADES	2	2.950	NSWC, PHILA		VARIOUS	VARIOUS	DEC-09	MAR-10			
LT306 AUTO VOLTAGE REGULATOR PROGRAM											
AUTO VOLTAGE REGULATOR	24	0.453	NAVSEA		CPFF	NG P/CS	JUN-10	JAN-12			

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED LT070 FFG7 CLASS MODERNIZATION REVERSE OSMOSIS	TYPE MODIFICATION: S/A 429K	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:

This shipalt replaces the two existing 4,000 GPD submerged tube distilling plants with two 6,800 GPD single pass RO desalinators. The existing distilling plant system has marginal capacity to meet ships potable water demands. Installation of 6,800 GPD RO desalination system will reduce ships force desalination plant workload and reduce part costs requirements.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		
<u>PROCUREMENT</u>																		
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT	27	13.3	2	1.2													29	14.5
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST	22	18.9	6	5.2	1	1.2											29	25.3
<u>TOTAL PROCUREMENT</u>		32.2		6.4		1.2												39.8

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: FFG7 CLASS MODERNIZATION REVERSE OSMOSIS
 MODIFICATION TITLE: ITEMS LESS THAN \$5M

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD/COMP

ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 6 Months

CONTRACT DATES: FY 2008: NOV-07 FY 2009: FY 2010:

DELIVERY DATES: FY 2008: MAY-08 FY 2009: FY 2010:

(\$ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010														TOTAL					
	Qty	\$	Qty	\$	Qty	\$	Qty	\$																	Qty	\$
PRIOR YEARS	22	18.9	5	3.9																					27	22.8
FY 2008 EQUIPMENT			1	1.3	1	1.2																			2	2.5
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	22	3	1	1	1	1	0	0	0	0	0	0	0														29
Out	22	0	2	1	1	1	0	1	0	1	0	0	0														29

Remarks:

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED LT070 FFG7 CLASS MODERNIZATION SLEWING ARM DAVITS (SLADS)	TYPE MODIFICATION: S/A 436	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:
 This shipalt replaces the existing trackway davit with a COTS davit with constant tension winch. The RHIB will be retained and modifications will be required to the O1 level platform, boat cradles and liferails. Installation of a COTS Davit will allow the RHIB to be used in higher sea states, expanding boat mission capability for at-sea rescue operations and will also result in a significant weight reduction and reduce the number of man-hours required for maintenance. The Navy standard SLAD is significantly more expensive than a COTS system and employs old technology. The newer COTS davits utilize many safety features that the Navy standard SLAD does not.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		
<u>PROCUREMENT</u>																		
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT	29	6.5															29	6.5
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST	26	15.9	3	1.2													29	17.1
<u>TOTAL PROCUREMENT</u>		22.4		1.2														23.6

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: FFG7 CLASS MODERNIZATION SLEWING ARM DAVITS (SLADS) MODIFICATION TITLE: ITEMS LESS THAN \$5M

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 6 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	26	15.9	3	1.2																				29	17.1	
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	26	1	1	0	1	0	0	0	0	0	0	0	0																		29
Out	26	0	1	1	0	1	0	0	0	0	0	0	0																		29

Remarks:

CLASSIFICATION: UNCLASSIFIED **May 2009**

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED LT070 FFG7 CLASS MODERNIZATION SSDG (SHIPSET=4 GENERATORS)	TYPE MODIFICATION: S/A 423K	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:
This shipalt is for the replacement of the ship service diesel engines on FFGs. The alt will replace SSDG engines to improve reliability and eliminate obsolescence issues. The SSDG provides all of the electrical power in all spaces (engineering, deck, galley, combat systems, etc).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		

PROCUREMENT	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT	14	21.3	1	1.6	3	4.4	2	3.5									20	30.8
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST	12	43.9	2	9.5	2	9.4	2	11.9									18	74.7
<u>TOTAL PROCUREMENT</u>		65.2		11.1		13.8		15.4										105.5

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED LT160 MACHINERY PLANT UPGRADES	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:
 ICAN provides core infrastructure (node rooms, air blown fiber optic cable plant, network services) for integrating voice, video and data systems. This capability is easily upgradable for rapid and cost effective expansion to support new technologies, such as IT-21, and is compatible with the Navy integrated Information Networks MOA.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT	11	18.0	1	2.7	2	5.4	2	5.9									16	32.0	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST	10	38.3	2	10.0	2	7.0	2	8.0									16	63.3	
<u>TOTAL PROCUREMENT</u>		56.3		12.7		12.4		13.9										95.3	

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: MACHINERY PLANT UPGRADES
 MODIFICATION TITLE: ITEMS LESS THAN \$5M

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 2 Months PRODUCTION LEADTIME: 3 Months

CONTRACT DATES: FY 2008: DEC-07 FY 2009: DEC-08 FY 2010: DEC-09

DELIVERY DATES: FY 2008: MAR-08 FY 2009: MAR-09 FY 2010: MAR-10

(\$ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010														TOTAL				
	Qty	\$	Qty	\$	Qty	\$	Qty	\$																Qty	\$
PRIOR YEARS	10	37.9	1	4.6																				11	42.5
FY 2008 EQUIPMENT	AP	0.4	1	4.6																				1	5.0
FY 2009 EQUIPMENT			AP	0.8	2	6.5																		2	7.3
FY 2010 EQUIPMENT					AP	0.5	2	7.2																2	7.7
							AP	0.8																	0.8

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	10	0	1	1	0	0	1	1	0	0	0	1	1																16
Out	9	1	0	0	1	1	0	0	1	1	0	0	0																14

Remarks:

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED LT240 LPD 17 FORCENET UPGRADE (IPV6)	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:

This effort addresses the DoD-mandated ForceNet Upgrade (IPv6) requirement. Funding is required to support Network (SWAN) hardware/software obsolescence corrections which have been accelerated as a result of DoD's mandate for ForceNet Upgrade compliance. Failure to meet this compliance requirement will negatively impact communication with other platforms/systems via NIPRNET, SIPRNET, and related methods. Funding supports backfit of LPDs 17-21.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT	1	7.0	1	7.2	1	7.0	1	5.9									4	27.1	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST			1	3.2	1	3.1	1	3.8									3	10.1	
<u>TOTAL PROCUREMENT</u>		7.0		10.4		10.1		9.7										37.2	

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: LPD 17 FORCENET UPGRADE (IPV6) MODIFICATION TITLE: ITEMS LESS THAN \$5M

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: VAR Months PRODUCTION LEADTIME: 6-9 Months

CONTRACT DATES: FY 2008: DEC-07 FY 2009: FEB-09 FY 2010: DEC-09

DELIVERY DATES: FY 2008: MAY-08 FY 2009: JUL-09 FY 2010: MAY-11

(\$ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010														TOTAL				
	Qty	\$	Qty	\$	Qty	\$	Qty	\$																Qty	\$
PRIOR YEARS			1	3.2																				1	3.2
FY 2008 EQUIPMENT					1	3.1																		1	3.1
FY 2009 EQUIPMENT									1	3.8														1	3.8
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	0	0	0	1	0	0	0	0	1	0	0	0	1															3
Out	0	0	0	0	1	0	0	0	1	0	0	0	0															2

Remarks:

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: LPD 17 HF ALE MODIFICATION TITLE: ITEMS LESS THAN \$5M

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: VAR Months PRODUCTION LEADTIME: 6-9 Months

CONTRACT DATES: FY 2008: OCT-07 FY 2009: FEB-09 FY 2010: OCT-09

DELIVERY DATES: FY 2008: APR-08 FY 2009: AUG-09 FY 2010: APR-10

(\$ in Millions)

COST	Prior Years		FY 2008		FY 2009		FY 2010														TOTAL				
	Qty	\$	Qty	\$	Qty	\$	Qty	\$																Qty	\$
PRIOR YEARS			2	0.8																				2	0.8
FY 2008 EQUIPMENT					1	0.4																		1	0.4
FY 2009 EQUIPMENT								0.3																1	0.3
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	0	0	0	1	1	0	0	0	1	0	0	0	1															4
Out	0	0	0	0	1	1	0	0	1	0	0	0	0															3

Remarks:

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED LT306 AUTO VOLTAGE REGULATOR PROGRAM AUTO VOLTAGE REGULATOR	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:
The Automated Voltage Regulator replaces the obsolete legacy regulator within CVN 68 Class turbine generators. The regulator is a digital, variable frequency mil-spec unit unique to this class.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		
<u>PROCUREMENT</u>																		
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT	17	6.1			4	1.8	24	10.9									45	18.8
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST	AP	1.8	3	4.7	4	2.7	10	5.2									17	14.4
<u>TOTAL PROCUREMENT</u>		7.9		4.7		4.5		16.1										33.2

CLASSIFICATION: UNCLASSIFIED **May 2009**

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED LT308 LHD MIDLIFE, LHA MIDLIFE/SUSTAINABILITY A/C PLANTS	TYPE MODIFICATION: S/A 248K	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:
This shipalt installs additional AC Plant in LHD 1 to upgrade LHD 1 to the class configuration.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		
<u>PROCUREMENT</u>																		
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT	1	1.4															1	1.4
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST			1	2.5													1	2.5
<u>TOTAL PROCUREMENT</u>		1.4		2.5														3.9

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: LHD MIDLIFE, LHA MIDLIFE/SUSTAINABILITY A/C PLANTS
 MODIFICATION TITLE: ITEMS LESS THAN \$5M

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 18 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			1	2.5																							1	2.5
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	0	0	1	0	0	0	0	0	0	0	0	0	0																			1	
Out	0	0	0	0	0	1	0	0	0	0	0	0	0																				1

Remarks:

CLASSIFICATION: UNCLASSIFIED **May 2009**

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED LT308 LHD MIDLIFE, LHA MIDLIFE/SUSTAINABILITY BOAT (RIB) DAVITS	TYPE MODIFICATION: S/A 1082K AND 1083K	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:
This shipalt installs Boat (RIB) Davits replacing LCPL Davits on the LHA/LHD Class Ships.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		

<u>PROCUREMENT</u>																		
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT	9	7.7															9	7.7
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST			1	0.7	2	1.7	4	2.8									7	5.2
<u>TOTAL PROCUREMENT</u>		7.7		0.7		1.7		2.8										12.9

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: LHD MIDLIFE, LHA MIDLIFE/SUSTAINABILITY BOAT (RIB) DAVITS
 MODIFICATION TITLE: ITEMS LESS THAN \$5M

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 4 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			1	0.7	2	1.7	4	2.8																			7	5.2
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	0	0	1	0	0	0	1	1	0	0	2	0	2																			7	
Out	0	0	0	0	1	0	0	1	1	0	0	2	2																				7

Remarks:

CLASSIFICATION: UNCLASSIFIED **May 2009**

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED LT308 LHD MIDLIFE, LHA MIDLIFE/SUSTAINABILITY REVERSE OSMOSIS (RO) UNITS	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:
This funding is to install RO Units previously procured under Shipalt 834K.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		
<u>PROCUREMENT</u>																		
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT	2	0.8															2	0.8
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST	1	1.9	1	2.2													2	4.1
<u>TOTAL PROCUREMENT</u>		2.7		2.2														4.9

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: LHD MIDLIFE, LHA MIDLIFE/SUSTAINABILITY REVERSE OSMOSIS (RO) UNITS
 MODIFICATION TITLE: ITEMS LESS THAN \$5M

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 6 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	1	1.9	1	2.2																							2	4.1	
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	1	1	0	0	0	0	0	0	0	0	0	0	0																		2
Out	1	1	0	0	0	0	0	0	0	0	0	0	0																		2

Remarks:

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED LT309 LSD MIDLIFE UPGRADES A/C PLANT (LSD 41 - 43)	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:

This Ship Change installs an additional MIL-Spec 250 Ton Air-Conditioning (A/C) Plant installed in a new auxiliary machinery room. Increased heat loads from additional/new equipment and increased chilled-water requirements from C4I upgrades have surpassed the A/C systems ability to meet HVAC Design Criteria for air conditioning and chilled-water. LSD 41-43 have less existing A/C plant capacity and therefore require a 250 Ton plant vs. a 130 Ton plant in LSD 44 - 52.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT	1	2.3															1	2.3	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST			AP	3.1															3.1
<u>TOTAL PROCUREMENT</u>		2.3		3.1															5.4

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED LT309 LSD MIDLIFE UPGRADES A/C PLANT (LSD 44 - 52)	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:

This Ship Change installs an additional ruggedized Coast Guard developed 130 Ton Air-Conditioning (A/C) Plant installed in a new auxiliary machinery room. Increased heat loads from additional/new equipment and increased chilled-water requirements from C4I upgrades have surpassed the A/C systems ability to meet HVAC Design Criteria for air conditioning and chilled-water.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT	1	1.0															1	1.0	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST	AP	1.2	1	2.2													1	3.4	
<u>TOTAL PROCUREMENT</u>		2.2		2.2														4.4	

CLASSIFICATION: UNCLASSIFIED **May 2009**

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED LT309 LSD MIDLIFE UPGRADES CANNED LUBE OIL PUMP	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:
 Procures and installs a lube oil pump for the ship service diesel generators.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		
<u>PROCUREMENT</u>																		
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT	1	0.6	1	0.6													2	1.2
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST	AP	0.5	1	0.9													1	1.4
<u>TOTAL PROCUREMENT</u>		1.1		1.5														2.6

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED LT309 LSD MIDLIFE UPGRADES LOW PRESSURE AIR COMPRESSOR	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:

This Ship Change replaces the Low-Pressure Air Compressors (LPAC) with modern, oil-free compressors. Parts obsolescence is a rapidly growing and more costly problem on these maintenance intensive compressors. This Ship Change provides Return On Investment (ROI) through improved reliability and maintainability of LPACs and reduced maintenance by elimination of oil contamination of pneumatic controls components (new compressors are oil-free). In addition, the new compressors will provide significant readiness improvement through increased reliability of vital, low-pressure air supply to Vital combat systems and the main propulsion controls.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT	2	1.0	2	1.5													4	2.5	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST	AP	0.5	1	2.1													1	2.6	
<u>TOTAL PROCUREMENT</u>		1.5		3.6															5.1

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED LT309 LSD MIDLIFE UPGRADES PROPELLER BLADES & PLMU	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:

This SHIPALT replaces the existing Propeller Blades with higher efficiency blades and installs Propulsion Load Management Units (PLMU) that result in fuel savings and engine maintenance reduction as well as operational benefits. The prototype for this SHIPALT was installed and proven aboard the LSD 44 under the DOD sponsored Commercial Operations and Support Savings Initiative (COSSI). Return On Investment (ROI) for the class is estimated at over \$40M (after payback) and operational benefits include increased top speed, quicker response/deceleration, and elimination of existing system performance problems (i.e., low lube-oil pressure trip of main engines). A Congressional Plus-up was provided to help bridge the gap between the COSSI funding and LSD Midlife Program funding. This Plus-up was used to procure/install this SHIPALT in LSD 41, 44 and 52. Only 9 LSDs will require this SHIPALT as part of the Midlife Program.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$	
	<i>FINANCIAL PLAN(IN MILLIONS)</i>																		
<i>RDT&E</i>																			
PROCUREMENT																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT	1	1.3																1	1.3
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST			AP	0.6															0.6
TOTAL PROCUREMENT		1.3		0.6															1.9

CLASSIFICATION: UNCLASSIFIED **May 2009**

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: LSD MIDLIFE UPGRADES PROPELLER BLADES & PLMU
 MODIFICATION TITLE: ITEMS LESS THAN \$5M

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYD/COMP

ADMINISTRATIVE LEADTIME: 5 Months PRODUCTION LEADTIME: 13 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			AP	0.6																								0.6
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	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

Beginning in FY 2009, LSD Midlife Program funding is transferred to OPN 1610. INSTALL FOR PRIOR PROCURED UNIT IN OPN 1610.

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED LT309 LSD MIDLIFE UPGRADES RO & GENERATORS	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:

This SHIPALT removes the auxiliary boilers and steam system equipment and replaces them with electrical equipment including Reverse Osmosis (RO) desalineators which replace the steam evaporators, and numerous electric heaters and galley equipment replacing their steam counterparts. This SHIPALT provides significant Return On Investment (ROI) through improved reliability and maintainability of electrical ship systems/equipment versus the obsolete and maintenance intensive steam systems/equipment. Also, additional electrical plant loads will improve efficient operation of the currently under-loaded SSDGs and contribute to the ROI through reduce maintenance costs for the SSDGs. These ship systems will also increase ships force safety and eliminate personnel hazards from steam.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		
<u>PROCUREMENT</u>																		
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT	3	32.1															3	32.1
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST	AP	13.8	1	28.6													1	42.4
<u>TOTAL PROCUREMENT</u>		45.9		28.6														74.5

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED LT309 LSD MIDLIFE UPGRADES STEERING CONTROL SYSTEM	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:

This SHIPALT replaces the analog Helm and Lee Helm Steering Consoles and equipment with an electronic, computerized Steering Control System (SCS) that integrates various navigation parameters, such as location (latitude, longitude) from GPS as well as pitch, roll, speed, heading, and wind. SCS will be designed to integrate with ECDOS-N digital nautical charts. The existing Bridge control system was designed in the late 1970s and is near the end of it's useful service life. Parts obsolescence is a rapidly growing and more costly problem on this maintenance intensive control system. The IBS also provides significantly enhanced operational and monitoring capabilities as well as real-time Navigation data . This system will reduce workload, provide significant readiness improvement, improve safety and provide cost avoidance.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT	2	2.8	1	1.2													3	4.0	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST	AP	2.7	1	3.8													1	6.5	
<u>TOTAL PROCUREMENT</u>		5.5		5.0															10.5

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED LT313 AS-39 MODERNIZATION ELECTRICAL UPGRADES	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:
 Modifications to upgrade the AS 39 Class in order to maintain, improve and extend the service life of a class of 2 ships. Upgrades include procurement and replacement of obsolete mission critical Industrial Plant Equipment (IPE), procurement and installation of switchboards and upgrades to the steam propulsion plant.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		

<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT			1	0.5														1	0.5
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST			1	0.3														1	0.3
<u>TOTAL PROCUREMENT</u>				0.8															0.8

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED LT313 AS-39 MODERNIZATION ELEVATOR UPGRADES	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:
 Modifications to upgrade the AS 39 Class in order to maintain, improve and extend the service life of a class of 2 ships. Upgrades include procurement and replacement of obsolete mission critical Industrial Plant Equipment (IPE), procurement and installation of switchboards and upgrades to the steam propulsion plant.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT			1	0.7			1	0.7									2	1.4	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST							1	1.7									1	1.7	
<u>TOTAL PROCUREMENT</u>				0.7			1.7	0.7										3.1	

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED LT313 AS-39 MODERNIZATION MAIN PROPULSION	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:
 Modifications to upgrade the AS 39 Class in order to maintain, improve and extend the service life of a class of 2 ships. Upgrades include procurement and replacement of obsolete mission critical Industrial Plant Equipment (IPE), procurement and installation of switchboards and upgrades to the steam propulsion plant.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		
<u>PROCUREMENT</u>																		
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT	1	2.1	1	2.8													2	4.9
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST	AP	1.0	1	2.4	AP	0.8	1	2.4									2	6.6
<u>TOTAL PROCUREMENT</u>		3.1		5.2		0.8		2.4										11.5

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED LT313 AS-39 MODERNIZATION REPLACE OBSOLETE IPE	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:
 Modifications to upgrade the AS 39 Class in order to maintain, improve and extend the service life of a class of 2 ships. Upgrades include procurement and replacement of obsolete mission critical Industrial Plant Equipment (IPE), procurement and installation of switchboards and upgrades to the steam propulsion plant. Shipset = 4 units.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		

<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT			2	1.0	1	0.5	2	0.9										5	2.4
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST					2	1.0	1	0.3										3	1.3
<u>TOTAL PROCUREMENT</u>				1.0		1.5		1.2											3.7

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED LT316 PATROL COASTAL MODERNIZATION DIESEL GENERATOR	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:
Funding procures Diesel Generators for Patrol Coastal ships.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT			1	0.3	8	2.2												9	2.5
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST			1	0.3	8	2.5												9	2.8
<u>TOTAL PROCUREMENT</u>				0.6		4.7													5.3

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED LT316 PATROL COASTAL MODERNIZATION HVAC UPGRADES	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:
Funding procures HVAC Upgrades for Patrol Coastal ships.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		
<u>PROCUREMENT</u>																		
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT			1	0.3	8	2.5											9	2.8
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST			1	0.3	8	2.4											9	2.7
<u>TOTAL PROCUREMENT</u>				0.6		4.9												5.5

CLASSIFICATION: UNCLASSIFIED	Exhibit P-23, TIME PHASED REQUIREMENT SCHEDULE SMARTSHIP LT140	APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY / BA 1	P-1 LINE ITEM NOMENCLATURE ITEMS LESS THAN \$5M (81LT, 61LT)	DATE May 2009																													
		FY 2008				FY 2009				FY 2010																							
		1	2	3	4	1	2	3	4	1	2	3	4																				
ACTIVE FORCE INVENTORY	6			1					1				1																				
SCHOOL/OTHER TRAINING																																	
OTHER																																	
TOTAL PHASED REQ	6	6	6	7	7	7	7	7	8	8	8	8	9																				
ASSETS ON HAND																																	
DELIVERY																																	
FY 07 & PRIOR	6																																
FY 08			1																														
FY 09							1																										
FY 10											1																						
TOTAL ASSETS	6	6	7	7	7	7	8	8	8	8	9	9	9																				
QTY OVER(+) OR SHORT(-)			1				1	1			1	1																					
REMARKS:							TOTAL RQMT				INSTALLED ON 10/08				ON HAND AS OF 10/08				FY 08 & PRIOR UNDELIVERED				UNFUNDED										
							APPN OPN (1810)				9				7				0				2										
							APPN																										
							APPN																										
	PROC LEADTIME 6 mos				ADMIN 2 mos				INITIAL ORDER mos				REORDER mos																				

CLASSIFICATION: UNCLASSIFIED															
Exhibit P-23A, Installation Data								P-1 LINE ITEM NOMENCLATURE ITEMS LESS THAN \$5M				DATE May 2009			
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY /BA 1								Installing Agent NAVAL SHIPYARDS/AITS							
1ST QTR		2ND QTR		3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR	
EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY
FY 2008								FY 2009							
				CVN68	1									CVN76	1
FY 2010															
						CVN69	1								

CLASSIFICATION:	UNCLASSIFIED
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Exhibit P-40, BUDGET ITEM JUSTIFICATION	DATE May 2009
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APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE CHEMICAL WARFARE DETECTORS SUBHEAD NO. 81CW BLI: 0989
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Program Element for Code B Items	Other Related Program Elements
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	Prior Years	ID Code		FY 2008	FY 2009	FY 2010				
Quantity	0			0	0	0				
COST (In Millions)	10.9	A		4.6	6.6	8.9				
SPARES COST (In Millions)	0.0	0		0.0	0.0	0.0				

PROGRAM DESCRIPTION/JUSTIFICATION:
CHEMICAL & BIOLOGICAL DEFENSE PROGRAM (INSTALLATION REQUIREMENTS):
 Public Law 103-160, Section 1703 created a Joint Service Chemical and Biological Defense Program (CBDP) to address ever growing threats from the aggressive proliferation of chemical and biological weapons. Joint CBDP funds the development and procurement of Chemical and Biological Defense (CBD) Equipment to enhance the warfighter's ability to survive and complete their mission in a chemical biological contaminated environment. The Navy is responsible for the associated installation/integration and sustainment funds only. The Navy's requirement for Joint Biological Point Detection System (JBPDS), Joint Chemical Agent Detection (JCAD), Shipboard Enhanced Automated Chemical Agent Detection Systems (SEACADS), Improved Point Detection System (IPDS) Joint Biological Agent Identification and Diagnostic System (JBAIDS) has been validated by CNO in associated Joint Operational Requirements Documents.

The JBPDS Block I will provide the Navy with automated, knowledge-based capability to detect and identify biological warfare agents in less than 15 minutes. The inventory objective for shipboard installations is 44.

The JCAD will provide a portable hand-held or mounted chemical agent vapor detection capability for monitoring spaces, surfaces, and interior areas and for detection of contamination on personnel. Inventory objective for shipboard installations is 2.

The JBAIDS will provide U.S. operating forces with a biological organism identification and diagnostic device that will identify and quantify biological organisms of operational concern and other pathogens of clinical significance for confirmatory and prognostic purposes. Inventory objective for shipboard installations is 15.

The SEACADS/IPDS will improve the existing shipboard point detection system for detecting and identifying nerve and blister agent contamination presence. Inventory objective for shipboard installations is 4.

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE CHEMICAL WARFARE DETECTORS SUBHEAD NO. 81CW BLI: 0989	
<p>The Navy Expeditionary Combat Command (NECC) was established 1 Oct 2005 to serve as the type commander for the USN⁴ expeditionary initiatives in support of the GWOT and N8 was the designated sponsor by OPNAVNOTE 3111 dated 6 Sep 2005. The formal commissioning on 13 Jan 2006, resulted in the consolidation of four existing and five future commands. Existing commands (and current sponsors) include: Naval Coastal Warfare (NCW - N85); Explosive Ordnance Disposal (EOD - N85); 1st Naval Construction Division (1NCD - N43); and Navy Expeditionary Logistics Support Force (NAVELSF - N41). New commands to support GWOT initiative are: Riverine (N85); Navy Expeditionary Security Force (NESF - none); Maritime Civil Affairs Group (MCAG - non); Navy Expeditionary Training Team (NETT - none); Expeditionary combat Readiness Center (ECRC - none).</p> <p>The Riverine force is made up of a command element of 45 personnel and 3 Squadrons with 224 personnel. Each squadron has 19 Officers and 205 Enlisted. Funding will be used to procure Chemical and Biological Defense Equipment (i.e. individual protection equipment kit [suits, masks, gloves etc...at your standard 224% level], chemical detectors, portable decom and systems protective shelters).</p> <p>Installation of Equipment Funding is for installation of equipment including Fleet Modernization Program installations, installation of training equipment and installation of equipment in other shore facilities. Procurement of equipment is funded by the Joint Chemical Biological Defense Program.</p>		

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS				Weapon System						DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code A		P-1 LINE ITEM NOMENCLATURE CHEMICAL WARFARE DETECTORS SUBHEAD NO. 81CW						
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
	<u>EQUIPMENT</u>											
CW001	CHEMICAL WARFARE PROGRAM											
	RIVERINE	A	2.168	0	0.000	0.575	0	0.000	1.011	0	0.000	0.000
	TOTAL EQUIPMENT		2.168			0.575			1.011			0.000
	<u>INSTALLATION</u>											
CWINS	INSTALL OF EQUIPMENT ALL	A	5.914	0	0.000	4.060	0	0.000	5.568	0	0.000	8.899
CWINS	TOTAL NON FMP INSTALL	A	2.790	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	TOTAL INSTALLATION		8.704			4.060			5.568			8.899
	TOTAL		10.872			4.635			6.579			8.899

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED CW001 CHEMICAL WARFARE PROGRAM JBAIDS	TYPE MODIFICATION:	MODIFICATION TITLE: CHEMICAL WARFARE DETECTORS
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DESCRIPTION/JUSTIFICATION:

OPNAVINST 3400.10F articulates U.S. Navy Chemical, Biological and Radiological Defense (CBR-D) policy and establishes functional responsibilities to ensure the highest level of the Fleet readiness and warfighting sustainability in a CBR environment. Joint Biological Agent Identification and Diagnostic System (JBAIDS) systems will identify and quantify biological organisms of operational concern and other pathogens of clinical significance for confirmatory and prognostic purposes. The JBAIDS ORD (dated May 2003) validates the modification. The equipment procurement is funded out of the Joint Chemical Biological Defense Program Budget P-1 Item Nomenclature: Joint Biological Agent Identification and Diagnostic System.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																		
<u>PROCUREMENT</u>																		
MODIFICATION KITS																		
MODIFICATION KITS - UNIT COST																		
MODIFICATION NONRECURRING																		
EQUIPMENT					9		6											15
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST			AP	0.9	9	0.8	6	0.5										15 2.2
<u>TOTAL PROCUREMENT</u>				0.9		0.8		0.5										2.2

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: CHEMICAL WARFARE PROGRAM JBAIDS MODIFICATION TITLE: CHEMICAL WARFARE DETECTORS

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 6-11 Months PRODUCTION LEADTIME: 9-12 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	\$
PRIOR YEARS																												
FY 2008 EQUIPMENT			AP	0.9																								0.9
FY 2009 EQUIPMENT					9	0.8																					9	0.8
FY 2010 EQUIPMENT							6	0.5																			6	0.5

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	9	2	2	2	2																		9
Out	0	0	0	0	0	0	0	0	9	2	2	2	2																	9	

Remarks:

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED CW001 CHEMICAL WARFARE PROGRAM JBPDS BLK 1	TYPE MODIFICATION:	MODIFICATION TITLE: CHEMICAL WARFARE DETECTORS
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DESCRIPTION/JUSTIFICATION:

OPNAVINST 3400.10F articulates U.S. Navy Chemical, Biological and Radiological Defense (CBR-D) policy and establishes functional responsibilities to ensure the highest level of Fleet Readiness and warfighting sustainability in a CBR environment. Joint Biological Point Detection Systems (JBPDS BLK I) provides for improved biological agent detection and reporting. The JBPDS ORD (J2-B001-Revision 1, dated 7 January, 2002) validates the modification. The equipment procurement is funded out of the Joint Chemical Biological Defense Program Budget P-1 Item Nomenclature: (JP0100) JOINT BIO POINT DETECTION SYSTEM (JBPDS). JBPDS BLK I will replace IBADS where applicable.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: ACAT II PROGRAM, JORD-JAN 2002; MSI-JUN 1996; MSII-JAN 1997; DT-AUG 2001; MSIII-JUN 2003.

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT	17		6		13		8											44	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST	17	5.9	6	3.1	13	3.9	8	3.1										44	16.0
<u>TOTAL PROCUREMENT</u>		5.9		3.1		3.9		3.1											16.0

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: CHEMICAL WARFARE PROGRAM JBPDS BLK 1
 MODIFICATION TITLE: CHEMICAL WARFARE DETECTORS

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 6-11 Months PRODUCTION LEADTIME: 9-12 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	\$
PRIOR YEARS	17	5.9																						17	5.9
FY 2008 EQUIPMENT			6	3.1																				6	3.1
FY 2009 EQUIPMENT					13	3.9																		13	3.9
FY 2010 EQUIPMENT							8	3.1																8	3.1

INSTALLATION SCHEDULE

	FY 2007 & Prior	FY 2008				FY 2009				FY 2010																TOTAL					
		1	2	3	4	1	2	3	4	1	2	3	4																		
In	17	2	1	0	3	2	1	4	6	1	4	2	1																		44
Out	17	2	1	0	3	2	1	4	6	1	4	2	1																		44

Remarks:

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED CW001 CHEMICAL WARFARE PROGRAM JCAD	TYPE MODIFICATION:	MODIFICATION TITLE: CHEMICAL WARFARE DETECTORS
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DESCRIPTION/JUSTIFICATION:

OPNAVINST 3400.10F articulates U.S. Navy Chemical, Biological and Radiological Defense (CBR-D) policy and establishes functional responsibilities to ensure the highest level of the Fleet readiness and warfighting sustainability in a CBR environment. Joint Chemical Agent Detection (JCAD) systems provides improved hand-held chemical agent detection. The equipment procurement is funded out of the Joint Chemical Biological Defense Program Budget P-1 Item Nomenclature: (JF0100) JOINT CHEM AGENT DETECTOR (JCAD). An "installation set" consists of 21 JCADS for LHA, 21 JCADS for LHD, 9 JCADS for LSD, 9 JCADS for an LPD, 5 JCADS for MCM, 3 JCADS for MHC , 13 per MCS and 24 for CVN/CV.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: MSI-APR 1999; CDR-FEB 2002; MSIII-SEP 2003

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT							2											2	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST						AP	0.5	2	4.3									2	4.8
<u>TOTAL PROCUREMENT</u>							0.5		4.3										4.8

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: CHEMICAL WARFARE PROGRAM JCAD MODIFICATION TITLE: CHEMICAL WARFARE DETECTORS

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 1-11 Months PRODUCTION LEADTIME: 2 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																									
FY 2008 EQUIPMENT																									
FY 2009 EQUIPMENT							AP	0.5																	0.5
FY 2010 EQUIPMENT									2	4.3															2 4.3

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	1	1															2
Out	0	0	0	0	0	0	0	0	0	0	0	1	1															2

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED CW001 CHEMICAL WARFARE PROGRAM SEACADS/IPDS	TYPE MODIFICATION:	MODIFICATION TITLE: CHEMICAL WARFARE DETECTORS
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DESCRIPTION/JUSTIFICATION:

OPNAVINST 3400.10F articulates U.S. Navy Chemical, Biological and Radiological Defense (CBR-D) policy and establishes functional responsibilities to ensure the highest level of the Fleet readiness and warfighting sustainability in a CBR environment. CBR-D Point Detection system (SEACADS/IPDS) provides shipboard point detection system for detecting and identifying nerve and blister agent contamination presence. The equipment procurement is funded out of the Joint Chemical biological Defense Program Budget.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$									Qty	\$	
	<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT							4											4	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST					AP	0.2	4	0.8										4	1.0
<u>TOTAL PROCUREMENT</u>						0.2		0.8											1.0

CLASSIFICATION:		UNCLASSIFIED										
Exhibit P-40, BUDGET ITEM JUSTIFICATION										DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						P-1 LINE ITEM NOMENCLATURE SUBMARINE LIFE SUPPORT SYSTEM SUBHEAD NO. 815D BLI: 0990						
Program Element for Code B Items						Other Related Program Elements						
	Prior Years	ID Code		FY 2008	FY 2009	FY 2010						
Quantity	0	A		0	0	0						
COST (In Millions)	60.3	A		14.0	15.2	14.7						
SPARES COST (In Millions)	0.0	0		0.0	0.0	0.0						
PROGRAM DESCRIPTION/JUSTIFICATION:												
5D007 - THE ELECTROLYTIC OXYGEN GENERATOR CONTROLLER												
A replacement digital controller developed to replace the antiquated analog controller currently being used on all Electrolytic Oxygen Generators (EOG). This Controller was designed in the 1950's and redesigned in the 1960's is no longer logistically serviceable.												
The replacement controller will require 12,000 fewer parts, replace the gas analyzer, provide greater reliability and allow for self diagnostics. In addition, this change will completely automate EOG including start-up, shut-downs and purging situations. The EOG will be modified by installation teams during the ships refit period and will take eight days to complete.												
5D009 - CENTRAL ATMOSPHERE MONITORING SYSTEM (CAMS) IIA												
A replacement atmosphere analyzer to replace the current CAMS I units on 688 Class submarines due to obsolescence.												
5D010 - THE LOW PRESSURE ELECTROLYZER (LPE)												
The LPE will replace the Electrolytic Oxygen Generators (EOG) currently being used on SSBN/SSGN Class submarines. The LPE also replaces the Oxygen Generating Plant (OGP) on SSN 21 Class submarines that has become unreliable and expensive to operate. The LPE produces oxygen at low pressure eliminating the need for high pressure oxygen storage. There will be two LPEs on SSBN/SSGN Class submarines and one LPE on SSN 21 Class submarines. There will be a total of 39 LPE units.												
5D011- LPE TRAINING UNITS												
Front panel simulators for training of the operation of the shipboard LPE. There will be two training units.												
5D012 - AEOG INSTALLATIONS												
Installation cost for AEOG units being installed in FY08 & FY09. The LPE will be procured for installation on the SSN 21 and SSBN/SSGN class.												

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE SUBMARINE LIFE SUPPORT SYSTEM SUBHEAD NO. 815D BLI: 0990	
5D830 - PRODUCTION ENGINEERING The review and approval of any production contract technical documentation, or the separate development of this documentation to include, technical manuals, PMS, Level III production drawings, provisioning technical documentation (PTD), Program Support Data (PSD) and Allowance Parts Lists (APL); Engineering & support for final design reviews. This work can be accomplished by NSWC PHILA as the in-service engineering agent, other Naval activities or contractors as appropriate.		

P-1 Line Item No 21

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CLASSIFICATION:

UNCLASSIFIED

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS				Weapon System							DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code A		P-1 LINE ITEM NOMENCLATURE SUBMARINE LIFE SUPPORT SYSTEM SUBHEAD NO. 815D						
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
	<u>EQUIPMENT</u>											
5D007	ELECTROLYTIC OXYGEN GENERATOR (EOG) CONTROLS	A	53.361	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
5D009	CAMS IIA	A	3.200	5	0.380	1.901	5	0.385	1.923	7	0.393	2.749
5D010	LOW PRESSURE ELECTROLYZER	A	0.000	4	2.560	10.238	4	2.500	10.001	4	2.555	10.220
5D011	LPE TRAINING UNITS	A	0.000	0	0.000	0.000	1	1.110	1.110	1	1.140	1.140
5D012	AEOG INSTALLATIONS	A	0.000	6	0.205	1.230	7	0.211	1.478	0	0.000	0.000
5D830	PRODUCTION ENGINEERING		3.708	0	0.000	0.639	0	0.000	0.655	0	0.000	0.612
	TOTAL EQUIPMENT		60.269			14.008			15.167			14.721
TOTAL			60.269			14.008			15.167			14.721

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE SUBMARINE LIFE SUPPORT SYSTEM BLI: 0990				SUBHEAD 815D	
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										
5D009 CAMS IIA	5	0.380	NSWC PHILA, PA		SS/FP	HAMILTON SUNDSTRAND CT	May-09	Jun-10	YES	
5D010 LOW PRESSURE ELECTROLYZER	4	2.560	NSWC PHILA, PA		C/FP	TREADWELL CORP CT	FEB-08	MAR-09	YES	
5D012 AEOG INSTALLATIONS	6	0.205	NSWC PHILA, PA		SS/FP	VARIOUS			YES	
FY 2009										
5D009 CAMS IIA	5	0.385	NSWC PHILA, PA		SS/FP	HAMILTON SUNDSTRAND CT	May-09	Jun-10	YES	
5D010 LOW PRESSURE ELECTROLYZER	4	2.500	NSWC PHILA, PA		C/OPT	TREADWELL CORP CT	NOV-08	DEC-09	YES	
5D011 LPE TRAINING UNITS	1	1.110	NSWC PHILA, PA		C/OPT	TREADWELL CORP CT	NOV-08	DEC-09	YES	
5D012 AEOG INSTALLATIONS	7	0.211	NSWC PHILA, PA		SS/FP	VARIOUS			YES	
FY 2010										
5D009 CAMS IIA	7	0.393	NSWC PHILA, PA		SS/FP	HAMILTON SUNSTRAND CT	NOV-09	DEC-10	YES	
5D010 LOW PRESSURE ELECTROLYZER	4	2.555	NSWC PHILA, PA		C/OPT	TREADWELL CORP CT	NOV-09	DEC-10	YES	
5D011 LPE TRAINING UNITS	1	1.140	NSWC PHILA, PA		C/OPT	TREADWELL CORP CT	NOV-09	DEC-10	YES	

CLASSIFICATION: UNCLASSIFIED																												
Exhibit P-23, TIME PHASED REQUIREMENT SCHEDULE ELECTROLYTIC OXYGEN GENERATOR (EOG) CONTROLS 5D007				APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY / BA 1										P-1 LINE ITEM NOMENCLATURE SUBMARINE LIFE SUPPORT SYSTEM (815D)						DATE May 2009								
				FY 2008				FY 2009				FY 2010																
				1	2	3	4	1	2	3	4	1	2	3	4													
ACTIVE FORCE INVENTORY	26	1	1	2	2	3	2	2																				
SCHOOL/OTHER TRAINING	2																											
OTHER																												
TOTAL PHASED REQ	28	29	30	32	34	37	39	41	41	41	41	41	41															
ASSETS ON HAND																												
DELIVERY																												
FY 07 & PRIOR	28	1	1	2	2	3	2	2	0	0	0	0	0															
FY 08																												
FY 09																												
FY 10																												
FY 11																												
FY 12																												
FY 13																												
FY 14																												
TC																												
TOTAL ASSETS	28	29	30	32	34	37	39	41	41	41	41	41	41															
QTY OVER(+) OR SHORT(-)	0	0	0	0	0	0	0	0	0	0	0	0	0															
REMARKS:									TOTAL RQMT				INSTALLED ON 10/07				ON HAND AS OF 10/07				FY 07 & PRIOR UNDELIVERED				UNFUNDED			
									41				21				0				20				0			
	PROC LEADTIME 18 mos								ADMIN 3 mos				INITIAL ORDER 20 mos				REORDER 20 mos											

CLASSIFICATION: UNCLASSIFIED															
Exhibit P-23A, Installation Data								P-1 LINE ITEM NOMENCLATURE SUBMARINE LIFE SUPPORT SYSTEM				DATE May 2009			
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY /BA 1								Installing Agent NSWC PHILADELPHIA							
1ST QTR		2ND QTR		3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR	
EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY
FY 2008								FY 2009							
SSN 688	1	SSN 688	1	SSN 688	2	SSN 688	2	SSN 688	3	SSN 688	2	SSN 688	2		
FY 2010															

CLASSIFICATION: UNCLASSIFIED															
Exhibit P-23A, Installation Data								P-1 LINE ITEM NOMENCLATURE SUBMARINE LIFE SUPPORT SYSTEM						DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY /BA 1								Installing Agent NSWC PHILADELPHIA							
1ST QTR		2ND QTR		3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR	
EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY
FY 2008								FY 2009							
FY 2010															
				SSN 688	2	SSN 688	3								

CLASSIFICATION: UNCLASSIFIED		APPROPRIATION/BUDGET ACTIVITY												P-1 LINE ITEM NOMENCLATURE												DATE			
Exhibit P-23, TIME PHASED REQUIREMENT SCHEDULE LOW PRESSURE ELECTROLYZER 5D010		OTHER PROCUREMENT, NAVY / BA 1												SUBMARINE LIFE SUPPORT SYSTEM (815D)												May 2009			
		FY 2008				FY 2009				FY 2010																			
		1	2	3	4	1	2	3	4	1	2	3	4																
ACTIVE FORCE INVENTORY							1	1	2	2	2																		
SCHOOL/OTHER TRAINING																													
OTHER																													
TOTAL PHASED REQ		0	0	0	0	0	1	2	4	6	8	8	8																
ASSETS ON HAND																													
DELIVERY																													
FY 07 & PRIOR																													
FY 08			C				1	1	2																				
FY 09						C					2	2																	
FY 10											C																		
FY 11																													
FY 12																													
FY 13																													
FY 14																													
TC																													
TOTAL ASSETS		0	0	0	0	0	1	2	4	6	8	8	8																
QTY OVER(+) OR SHORT(-)		0	0	0	0	0	0	0	0	0	0	0	0																
REMARKS:						TOTAL RQMT				INSTALLED ON 10/07				ON HAND AS OF 10/07				FY 07 & PRIOR UNDELIVERED				UNFUNDED							
						39				0				0				0											
		PROC LEADTIME 13 mos								ADMIN 3 mos				INITIAL ORDER 13 mos				REORDER 13 mos											

CLASSIFICATION: UNCLASSIFIED															
Exhibit P-23A, Installation Data								P-1 LINE ITEM NOMENCLATURE SUBMARINE LIFE SUPPORT SYSTEM				DATE May 2009			
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY /BA 1								Installing Agent NSWC PHILADELPHIA							
1ST QTR		2ND QTR		3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR	
EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY
FY 2008								FY 2009							
										SSN 21	1	SSN 21	1	SSGN	1
														SSN 21	1
FY 2010															
SSGN	2	SSGN	2												

CLASSIFICATION: UNCLASSIFIED																											
Exhibit P-23, TIME PHASED REQUIREMENT SCHEDULE LPE TRAINING UNITS 5D011				APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY / BA 1								P-1 LINE ITEM NOMENCLATURE SUBMARINE LIFE SUPPORT SYSTEM (815D)								DATE May 2009							
				FY 2008				FY 2009				FY 2010															
				1	2	3	4	1	2	3	4	1	2	3	4												
ACTIVE FORCE INVENTORY																											
SCHOOL/OTHER TRAINING																											
OTHER																											
TOTAL PHASED REQ																											
ASSETS ON HAND																											
DELIVERY																											
FY 07 & PRIOR																											
FY 08																											
FY 09									C					1													
FY 10													C														
FY 11																											
FY 12																											
FY 13																											
FY 14																											
TC																											
TOTAL ASSETS													1	1	1												
QTY OVER(+) OR SHORT(-)													1	1	1												
REMARKS:								TOTAL RQMT				INSTALLED ON 10/07				ON HAND AS OF 10/07				FY 07 & PRIOR UNDELIVERED				UNFUNDED			
				APPN				2				0				0				0				0			
				APPN																							
				APPN																							
				PROC LEADTIME 13 mos				ADMIN 3 mos				INITIAL ORDER 13 mos				REORDER 13 mos											

CLASSIFICATION: UNCLASSIFIED															
Exhibit P-23A, Installation Data								P-1 LINE ITEM NOMENCLATURE SUBMARINE LIFE SUPPORT SYSTEM						DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY /BA 1								Installing Agent							
1ST QTR		2ND QTR		3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR	
EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY	EI/F	QTY
FY 2008								FY 2009							
FY 2010															
		TTF KB	1												

CLASSIFICATION:		UNCLASSIFIED										
Exhibit P-40, BUDGET ITEM JUSTIFICATION										DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						P-1 LINE ITEM NOMENCLATURE DIVING AND SALVAGE EQUIPMENT SUBHEAD NO. 81HY BLI: 1130						
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)	18.8	A		6.7	6.5	5.3						
SPARES COST (In Millions)	1.5	0		0.8	0.8	0.4						
PROGRAM DESCRIPTION/JUSTIFICATION:												
<p>DIVING</p> <p>This request provides funding for procurement of modern equipment to replace the Navy's archaic diving systems. The demand for divers' services for salvage, ship husbandry, repair and sanitizing work is rapidly increasing. The requested funding procures diving hardware which increases the efficiency and safety of the working diver. Program objectives are to: (1) provide increased safety for diver decompression and better recompression chamber patient monitoring capability, (2) increase underwater ship maintenance capabilities, (3) improve quick response capability, and (4) standardize the configuration of diving systems in the Fleet.</p> <p>SALVAGE:</p> <p>This request provides program support for the procurement of critical salvage and underwater ship repair items. Public Law 513 (80th Congress, 10 USC 7361 ET SEQ) authorizes the Secretary of the Navy to provide, by contractor or otherwise, necessary salvage and diving equipment, services and facilities for public, private, and military vessels upon such terms and conditions as he may, in his discretion, determine to be in the best interest of the United States.</p> <p>The U. S. Navy Supervisor of Salvage maintains the Emergency Ship Salvage Material (ESSM) System which consists of a network of bases that maintain, control, and issue material for salvage operations, underwater ship husbandry operations, pollution abatement operations, ocean engineering projects, special authorized projects, and equipment for use in national emergencies. The major bases are located in Williamsburg, Virginia; Port Hueneme, California; Singapore; and Livorno, Italy. Satellite bases having smaller allowances are maintained at Sasebo, Japan; Pearl Harbor, Hawaii; and Bahrain. This system provides the Nation's first line of defense for major pollution abatement operations and the Navy's second line of defense for salvage operations.</p> <p>The major items of procurement are:</p> <p>HY106 LIGHTWEIGHT DIVE SYSTEM (LWDS):</p> <p>a. This system is completely self-contained, man-portable, and can be deployed from dockside or a ship of opportunity. The system will support two working</p>												

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE DIVING AND SALVAGE EQUIPMENT SUBHEAD NO. 81HY BLI: 1130	
<p>divers and a standby diver to 190 feet of seawater (FSW) for up to a six hour mission performing ship husbandry, light salvage, and underwater inspection tasks. The Diver Equipment will interface with all Navy certified, air surface supplied diving systems. Required Inventory Objective (I/O) is 40.</p> <p>DLSS:</p> <ol style="list-style-type: none"> 1. Compressor Package - Compressor and prime mover mounted on a common frame; with external fuel tank and gauges. 2. Composite Flasks - Racks of composite HP cylinders; with manifolds and interconnecting hoses. 3. Volume Tank - Assembly mounted on separate frame; with interconnecting hoses. 4. Control Console - Suitcase size with air supply and pneumofathometer control. <p>b. 3000 PSI Flask Replacement: This item replaces the composite flasks used in the LWDS which have reached their 15 year service life. Required Inventory Objective I/O is 564.</p> <p>c. Portable Air Dive Consoles: Very lightweight air diving consoles that are used quick response, forward deployed missions where SCUBA is not sufficient. Required Inventory Objective I/O is 59.</p> <p>d. Portable Oxygen Dive Consoles: Lightweight oxygen diving consoles that are used to provide in water oxygen for decompression. Required Inventory Objective I/O is 50.</p> <p>e. Engineering Change Proposals: Required to upgrade the LWDS for 190 fsw capability and 5000 psi service.</p> <p>HY107 PORTABLE RECOMPRESSION CHAMBER:</p> <p>a. Portable Chamber: The Paracel Transportable Recompression Chamber System provides an effective two-man evacuation, transport, treatment, and transfer under pressure capability in order to benefit a diver suffering a pressure related ailment requiring urgent hyperbaric treatment. This is the lightest, most transportable system available to the U. S. Navy. Required Inventory Objective I/O is 16.</p> <p>b. H. P. Composite Flask Replacement: This item replaces the composite flasks used in the Transportable Recompression Chamber System (TRCS) which have reached their 15 year service life. Required Inventory Objective I/O is 594.</p> <p>c. Engineering Change Proposals</p> <p>d. Environmental Upgrade Package: This item modified existing systems with an environmental system to allow operation in both hot and cold extreme temperature environments. Required Inventory Objective I/O is 16.</p> <p>HY123 FLYAWAY DIVE SYSTEM (FADS) III:</p> <p>The FADS III is a matrix of components designed to support manned diving to 850 fsw. It is made up of three major subsystems, the High Pressure (H.P.) Air System, the Mixed Gas System and the Saturation Diving System. The air system consists of a 5000 psi air rack using lightweight composite flasks, a portable diver's air console, and a 5000 psi air compressor packaged for flyaway applications. The mixed gas subsystem consists of H.P. racks for containment of various</p>		

CLASSIFICATION:	UNCLASSIFIED		
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)			DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE DIVING AND SALVAGE EQUIPMENT SUBHEAD NO. 81HY BLI: 1130		
<p>gas mixes required for diving operations, a mixed gas diving console, and a gas transfer system for charging mixed gas flasks. The saturation diving subsystem consists of H.P. racks for containment of various gas mixes required for diving operations, a mixed gas diving console, and a gas transfer system for charging mixed gas flasks, topside hyperbaric chamber for diver storage and decompression, diving bell and bell handling system. Support equipment includes diver life support items such as diver hot water heaters, hot water suits, dry suits, umbilical, diver full face masks, small, man-portable, diesel-powered, 5000 psi compressors and diver communication boxes. The matrix concept is designed to provide maximum flexibility in assembling equipment necessary to support a dive mission. Required Inventory Objective I/O is 21 High Pressure Air Systems, 45 Mixed Gas Systems, and 1 Saturation Diving System.</p> <p>HY132 STANDARD NAVY DOUBLE LOCK RECOMPRESSION CHAMBER: The Recompression Chambers are to be conventional chambers designed to be built using standard commercial specification and standards. Chambers will be capable of providing a full range of recompression treatment to two patients and two attendants. These chambers are containerized to allow the chamber to be transported and installed for long term operations. These chambers will replace aging and difficult to maintain recompression chambers that will be retired due to fatigue and material flaws. Required Inventory Objective I/O is 12.</p> <p>HY179 NAVY EXPERIMENTAL DIVING UNIT: NEDU's mission is to support the Fleet diver through test and evaluation of diving equipment and procedures as well as hyperbaric systems for NAVSEA, Navy, and DOD activities. Funding is to procure equipment for test, facilities atmospheric control, life support, and physiological systems. These systems not only ensure the safety and lives of NEDU sailors performing experimental dives, but ultimately support the combat readiness and mission success of the Fleet sailors who use the equipment tested at NEDU. FY 06 and FY 07 include funding to support the periodic overhaul of the Ocean Simulation Facility (OSF). The OSF is the world's largest man-rated hyperbaric chamber affording space for 12 divers in 5 hyperbaric dry chambers, man-rated for dives to 2,250 feet of sea water (1000 psi) with a 50' x 15', 55,000-gallon wet-pot capacity, temperatures from 28 to 104 F, an associated 1.3 million-cubic foot (37 km3) bottle field and uses a fully computerized data instrumentation and collection system.</p> <p>HY043 SWISS/DEEP DRONE/ORION/CURVE/MAGNUM UMBILICAL: The Navy maintains the SWISS, DEEP DRONE, ORION, CURV-21 and MAGNUM remotely operated vehicles for use in hazardous salvage, inspection, and pollution operations. These vehicles are remotely controlled through umbilicals which transmit all command and control functions to the vehicle as well as transmitting all sensor data from the vehicle to the ship. They are procured in different lengths for use in varying ocean depths down to 20,000 feet. The umbilical also acts as the handling line. Required I/O is 16 (12 plus 4 spares).</p> <p>HY141 U/W SHIP HUSBANDRY INSPECTION SYSTEM: This hardware will permit rapid transmission of underwater inspection results to topside engineers for damage assessment. It will preclude the necessity of recording and forwarding video tapes for subsequent evaluation and allow engineers to direct inspectors from remote sites. Required Inventory Objective I/O is 5.</p> <p>HY145 COFFERDAM SYSTEM: This system will contain a variety of cofferdams necessary to accomplish underwater repair tasks to hull plating, shafts, stern tubes and sea chests on several ship classes. The cofferdams are engineered structural habitats which provide a safe underwater dry environment for divers to work and require very little maintenance. Required Inventory Objective I/O is 15.</p>			

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE DIVING AND SALVAGE EQUIPMENT SUBHEAD NO. 81HY BLI: 1130	
<p>HY146 PROPELLER REPAIR KIT: These kits will contain the tools necessary to repair minor propeller damage underwater. By accomplishing these repairs in-place, propeller removal and replacement can be avoided thereby saving maintenance funds and returning ships to service faster. Required Inventory Objective I/O is 8.</p> <p>HY166 ROV TOOL PACKAGE: This tool package is utilized by remotely operated vehicles to accomplish work on objects on the sea floor and in the water column. These systems consist of dual manipulators, control systems, video inspection systems, range measuring systems, power supplies, hydraulic power units, an ancillary end effectors. Required Inventory Objective I/O is 8.</p> <p>HY190 VIDEO EQUIPMENT: Underwater video equipment used by divers to perform detailed inspections of ship hulls and appendages. Equipment is used extensively throughout the Fleet. This equipment will replace aging systems currently in use throughout the Fleet. Required Inventory Objective I/O is 20.</p> <p>HY191 MOBILE DIVING AND SALVAGE UNIT OUTFITTING EQUIPMENT: Provides prioritized initial outfitting for newly established Mobile Diving and Salvage Unit Detachments. Includes Salvage and Combat Support Equipment to meet ROC/POE requirements. Equipment will be procured for each Detachment as prioritized by the Fleet. Each Detachment will be partially outfitted starting in FY02 with the highest priority equipment. Required Inventory Objective I/O is 12.</p> <p>HY195 UNDERWATER RIGGING SUPPORT SYSTEM: General and special purpose rigging equipment designed for use in underwater ship repair applications. Required Inventory Objective I/O is 8.</p> <p>HY196 UNDERWATER SHIP HUSBANDRY SUBMARINE SUPPORT SYSTEM: Special purpose underwater tools used by divers to perform routine and emergent repairs to all Classes of submarines. Required Inventory Objective I/O is 16.</p> <p>HY197 UNDERWATER SHIP HUSBANDRY PIERSIDE SUPPORT VAN: Portable milvans outfitted with general and special purpose tools to support various underwater ship husbandry operations. Required Inventory Objective I/O is 12.</p> <p>HY176 H.P. AIR COMPRESSOR: This item replaces high pressure air compressors in existing divers' life support systems which have reached the end of their service life. Required Inventory Objective I/O is 64.</p> <p>HY192 THERMAL DIVING SUIT: New technology diving suits which can be used in cold or warm water to maintain a diver in a safe thermal environment. Required Inventory Objective I/O is 200.</p> <p>HY050 SYNTHETIC LINE: This line is used for lifting, mooring, towing, rigging, and in conjunction with the remotely operated vehicles at the salvage site. Required Inventory Objective I/O is 200.</p> <p>HY164 FLYAWAY FADOSS SYSTEM: This system consists of lightweight motion compensators, winches, rigging jewelry, and lines for lifting heavy objects off the sea floor. All of the components are designed to be flown to the salvage site and loaded aboard ships of opportunity. Required Inventory Objective I/O is 14.</p>		

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Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE DIVING AND SALVAGE EQUIPMENT SUBHEAD NO. 81HY BLI: 1130	
<p>HY169 UNDERWATER SHIP HUSBANDRY POWER TOOLS: These tools will replace the hydraulic tool sets designed and issued to Fleet divers in the 1970's with improved technology. This technology improvement will provide tools which are more environmentally compatible, offer greater power, lighter weight and reduced maintenance. Required Inventory Objective I/O is 15.</p> <p>HY184 SALVAGE SUPPORT SYSTEM: These systems are used to support Fleet salvage operations and include equipment required for command and control, communications, supply, repair, rigging, and personnel support. Each system includes the storage and shipping containers necessary to forward deploy the equipment to a salvage site. Required Inventory Objective I/O is 30.</p> <p>HY177 AIR PURIFICATION UNIT This item is used when charging diver's life support system (DLSS) flasks or inserted inline in the DLSS to purify and monitor diver's breathing air. It will enhance diver's safety by providing constant monitoring of diver's breathing air and can be used in lieu of the semi-annual diver's air sampling program for breathing air compressors. Required Inventory Objective I/O is 50 units.</p> <p>HY193 SURFACE SUPPLIED DIVING HELMET Replacement helmets for the current MK 21 which have reached the end of their service life. Required Inventory Objective I/O is 600.</p> <p>HY116 PORTABLE SUBMERSIBLE PUMPS The 6" hydraulic submersible salvage pump system is designed for high lift with high discharge pressure. The pumping system is packaged in containers for ease of shipment and handling at the casualty site. The pump with attached hoses can be lowered into flooded spaces through 12-1/2" or larger accesses or can be handcarried into confined spaces. The system includes a hydraulic power unit, hose, and all ancillary equipment. Required Inventory Objective I/O is 55.</p> <p>HY194 CONTAMINATED WATER DIVING EQUIPMENT Surface supplied diving equipment (helmets, drysuits, umbilicals, surface exhaust consoles, etc.) specially designed for diving in contaminated water. Required Inventory Objective I/O is 25.</p> <p>HY016 DECK CAPSTANS The portable hydraulic capstan system consists of one portable hydraulic driven capstan, one portable hydraulic power unit, and all necessary controls and hydraulic hoses. The capstans are rated to pull up to 7,500 pounds. Required Inventory Objective I/O is 41.</p> <p>HY062 SWISS/DEEP DRONE/ORION/CURV SONAR SYSTEM These sonars are used on the SWISS, DEEP DRONE, ORION, and CURV-21 remotely operated vehicles to locate items lost on the sea floor, aircraft debris fields, sunken hull sections, and submerged obstacles. Required Inventory Objective I/O is 8 (6 operational plus 2 spares).</p> <p>HY131 ROV HANDLING SYSTEMS: These systems are used to launch and recover remotely operated vehicles and to tend the deployed cable, compensate for ship motion, monitor cable tension, and store cable. Required Inventory Objective I/O is 10 (5 operational and 5 spares).</p> <p>HY140 ROV CONTROL PACKAGE The ROV Control Package is used to control the various functions of the SWISS, DEEP DRONE, ORION, and CURV-21 ROVs. Required Inventory Objective I/O is 6 (3 operational plus 3 spares).</p>		

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE DIVING AND SALVAGE EQUIPMENT SUBHEAD NO. 81HY BLI: 1130	
<p>HY147 ROV TELEMETRY SYSTEM The ROV Telemetry System is the communication link between the surface controller and the vehicle. Required Inventory Objective I/O is 6 (3 operational plus 3 spares).</p> <p>HY153 TENSIO METER SYSTEMS Tensiometers are used to measure the tension exerted on a beach gear ground leg or heavy lift system. One system consists of two load sensing units with associated rigging and read-out meters. Required Inventory Objective I/O is 88.</p> <p>HY154 WATER PURIFIERS Water Purifiers are capable of converting salty, brackish, or biologically polluted water into potable water. The systems are fully maritized for use aboard a ship of opportunity, and are complete with all necessary power sources, hoses, chemicals, and associated support equipment. Required Inventory Objective I/O is 18.</p> <p>HY155 POWER GENERATORS They are used aboard a ship and shore-side to provide general purpose electrical power during salvage and debatching operations. There are two different sizes of power generators, 5 KW and 30 KW. The generators are a system consisting of a diesel powered, portable generating unit, a power distribution panel, and associated distribution apparatus. Required Inventory Objective I/O is 40 (5 KW) and 40 (30 KW).</p> <p>HY156 SALVAGE VANS These vans are modified ISO 8 ft x 8 ft x 20 ft shipping containers equipped to store and ship portable salvage equipment to a vessel of opportunity in times of National emergency and functions as a support van on station. Each van is complete with a humidity controlling device for prolonging equipment life during storage. The system includes all necessary rigging and handling equipment. Required Inventory Objective I/O is 50.</p> <p>HY158 ROV PROPULSION SYSTEMS ROV propulsion systems provide main propulsion and control of remotely operated vehicles. These consist of electric and hydraulic thruster motors, thrusters, controllers, and interconnect cabling and power supplies. Required Inventory Objective I/O is 12 (8 operational plus 4 spares).</p> <p>HY162 TRASH PUMP SYSTEMS The Trash Pump System consists of one portable, hydraulically driven, submersible pump and all necessary hydraulic and product delivery hoses. The pumps are capable of passing solid objects without damage to the system. Required Inventory Objective I/O is 82.</p> <p>HY198 - UWSH SURFACE SHIP SUPPORT SYSTEMS Special purpose underwater tools used by divers to perform routine and emergent repairs to all Classes of surface ships. Required Inventory Objective I/O is 30.</p> <p>HY199 NAVY DIVE COMPUTER The diving computers is made of two majors subsystems each of which has an estimated service life of 5 years. The first subsystem is a diver worn decompression computer. These will provide primarily scuba divers with real time calculation of decompression limits/obligation. I/O is 1400. The second subsystem is a topside decompression monitor which includes the topside computer and diver worn depth sensor. These will be provided as accessory equipment to be used with any Lightweight Diving System (LWDS), Fly Away Diving System III (FADS III), or Fly Away Mixed Gas Diving System (FMGS). Required Inventory Objective I/O is 62.</p>		

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS				Weapon System						DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code		P-1 LINE ITEM NOMENCLATURE DIVING AND SALVAGE EQUIPMENT SUBHEAD NO. 81HY						
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
	<u>EQUIPMENT</u>											
HY043	OCEANOGRAPHIC UMBILICAL	A	0.821	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HY050	SYNTHETIC LINES	A	0.000	0	0.000	0.000	1	0.187	0.187	0	0.000	0.000
HY106	<u>LIGHTWEIGHT DIVE SYSTEMS</u>											
	A. SYSTEMS	A	0.000	0	0.000	0.000	0	0.000	0.000	1	0.166	0.166
	C. PORTABLE AIR DIVE CONSOLES	A	0.180	7	0.037	0.259	10	0.036	0.357	11	0.039	0.423
	D. PORTABLE OXYGEN DIVE CONSOLES	A	0.000	0	0.000	0.000	10	0.026	0.255	11	0.026	0.286
	E. ENGINEERING CHANGE PROPOSALS	A	0.067	1	0.014	0.014	0	0.000	0.000	0	0.000	0.000
HY107	<u>PORTABLE RECOMPRESSION CHAMBERS</u>											
	B. HP COMPOSITE FLASK REPLACEMENT	A	0.000	0	0.000	0.000	121	0.003	0.370	0	0.000	0.000
	C. ENGINEERING CHANGE PROPOSALS	A	0.165		0.000	0.300	0	0.000	0.000	0	0.000	0.000
	D. ENVIRONMENTAL UPGRADE PACKAGES	A	0.075	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HY116	PORTABLE SUBMERSIBLE PUMPS	A	0.000	0	0.000	0.000	0	0.000	0.000	3	0.060	0.181
HY123	<u>FLYAWAY DIVE SYSTEM III</u>											
	G. HP COMPOSITE FLASK REPLACEMENT	A	0.000	81	0.004	0.332	0	0.000	0.000	72	0.004	0.310
	A. HIGH PRESSURE AIR SYSTEMS	A	0.000	0	0.000	0.000	0	0.000	0.000	2	0.344	0.687
	B. ENGINEERING CHANGE PROPOSALS	A	0.224	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	E. SATURATION DIVING SYSTEM SUPPORT EQUIPMENT	A	3.792	1	1.429	1.429	0	0.000	0.000	0	0.000	0.000
	F. FADS III SUPPORT EQUIPMENT	A	0.098	0	0.000	0.000	10	0.027	0.265	1	0.035	0.035
HY132	<u>RECOMPRESSION CHAMBERS</u>											
	D. ENGINEERING CHANGE PROPOSALS	A	0.105	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 1				ID Code		P-1 LINE ITEM NOMENCLATURE DIVING AND SALVAGE EQUIPMENT SUBHEAD NO. 81HY						
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
	A. PORTABLE/CONTAINERIZED CHAMBERS	A	2.254	0	0.000	0.000	1	0.928	0.928	0	0.000	0.000
	C. CHAMBER SUPPORT EQUIPMENT	A	0.000	0	0.000	0.000	1	0.200	0.200	0	0.000	0.000
HY136	30 KIP FADOSS	A	0.362	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HY145	COFFERDAM SYSTEM	A	0.980	1	0.400	0.400	0	0.000	0.000	1	0.229	0.229
HY146	PROPELLER REPAIR KIT	A	0.718	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HY154	WATER PURIFERS	A	0.000	0	0.000	0.000	0	0.000	0.000	2	0.070	0.140
HY155	POWER GENERATORS	A	0.000	0	0.000	0.000	0	0.000	0.000	4	0.012	0.046
HY164	FLYAWAY FADOSS SYSTEM	A	0.000	1	0.534	0.534	0	0.000	0.000	0	0.000	0.000
HY169	UWSH POWER TOOLS	A	0.000	0	0.000	0.000	1	0.131	0.131	0	0.000	0.000
HY176	H.P. AIR COMPRESSORS	A	0.000	1	0.046	0.046	1	0.064	0.064	3	0.048	0.144
HY177	AIR PURIFICATION UNITS	A	0.000	10	0.034	0.338	12	0.004	0.053	5	0.014	0.070
HY179	<u>NAVY EXPERIMENTAL DIVING UNIT</u> NAVY EXPERIMENTAL DIVING UNIT	A	1.852	1	0.334	0.334	1	0.341	0.341	1	0.347	0.347
HY184	SALVAGE SUPPORT SYSTEMS	A	0.000	1	0.356	0.356	7	0.128	0.897	9	0.051	0.463
HY190	VIDEO EQUIPMENT	A	0.257	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 1				ID Code		P-1 LINE ITEM NOMENCLATURE DIVING AND SALVAGE EQUIPMENT SUBHEAD NO. 81HY						
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
HY191	MOBILE DIVING & SALVAGE UNIT OUTFITTING EQUIP	A	6.826	1	1.290	1.290	1	1.396	1.394		0.000	0.000
HY192	THERMAL DIVING SUITS	A	0.000	0	0.000	0.000	1	0.002	0.002	28	0.002	0.058
HY193	SURFACE SUPPLIED DIVING HELMET	A	0.000	0	0.000	0.000	50	0.006	0.308	50	0.006	0.312
HY194	CONTAMINATED WATER DIVING EQUIPMENT	A	0.000	1	0.034	0.034	0	0.000	0.000	2	0.051	0.102
HY195	UNDERWATER RIGGING SUPPORT SYSTEM	A	0.000	1	0.601	0.601	0	0.000	0.000	0	0.000	0.000
HY196	UWSH SUBMARINE SUPPORT SYSTEM	A	0.000	1	0.400	0.400	2	0.389	0.778	1	0.436	0.436
HY197	UWSH PIERSIDE SUPPORT VANS	A	0.000	0	0.000	0.000	0	0.000	0.000	3	0.192	0.577
HY199	NAVY DIVE COMPUTER	A	0.000	0	0.000	0.000	0	0.000	0.000	292	0.001	0.292
	TOTAL EQUIPMENT		18.776			6.667			6.530			5.304
TOTAL			18.776			6.667			6.530			5.304

CLASSIFICATION:				UNCLASSIFIED							
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE DIVING AND SALVAGE EQUIPMENT BLIN: 1130				SUBHEAD 81HY		
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											
HY176 H.P. AIR COMPRESSORS		1	0.046	WASHINGTON DC	N/A	C/CPAF	GLOBAL PCCI, IRVINE CA	APR-08	AUG-08	YES	
HY177 AIR PURIFICATION UNITS		10	0.034	WASHINGTON DC	N/A	C/CPAF	GLOBAL PCCI, IRVINE CA	APR-08	MAR-09		
HY194 CONTAMINATED WATER DIVING EQUIPMENT		1	0.034	WASHINGTON DC	N/A	C/CPAF	PHOENIX INTL, LANDOVER MD	JUN-08	APR-09		
HY195 UNDERWATER RIGGING SUPPORT SYSTEM		1	0.601	WASHINGTON DC	N/A	C/CPAF	GLOBAL PCCI, IRVINE CA	MAR-08	MAR-09		
HY196 UWSH SUBMARINE SUPPORT SYSTEM		1	0.400	WASHINGTON DC	N/A	C/CPAF	GLOBAL PCCI, IRVINE CA	MAR-08	MAR-09		
HY106 LIGHTWEIGHT DIVE SYSTEMS											
C. PORTABLE AIR DIVE CONSOLES		7	0.037	WASHINGTON DC	N/A	C/CPAF	GLOBAL PCCI, IRVINE CA	APR-08	MAR-09		
E. ENGINEERING CHANGE PROPOSALS		1	0.014	WASHINGTON DC	N/A	C/CPAF	PHOENIX INTL, LANDOVER MD	MAR-08	MAR-09		
HY123 FLYAWAY DIVE SYSTEM III											
E. SATURATION DIVING SYSTEM SUPPORT EQUIPMENT		1	1.429	WASHINGTON DC	N/A	C/CPAF	PHOENIX INTL, LANDOVER MD	MAR-08	JAN-09		
G. HP COMPOSITE FLASK REPLACEMENT		81	0.004	WASHINGTON DC	N/A	C/CPAF	GLOBAL PCCI, IRVINE CA	APR-08	APR-09		
HY145 COFFERDAM SYSTEM		1	0.400	WASHINGTON DC	N/A	C/CPAF	GPC, CA/PHOENIX INTL, MD	MAR-08	JAN-09	YES	
HY164 FLYAWAY FADOSS SYSTEM		1	0.534	WASHINGTON DC	N/A	C/CPAF	GLOBAL PCCI, IRVINE CA	APR-08	MAR-09	YES	
HY179 NAVY EXPERIMENTAL DIVING UNIT											
NAVY EXPERIMENTAL DIVING UNIT		1	0.334	WASHINGTON DC	N/A	C/CPAF	GLOBAL PCCI, IRVINE CA	APR-08	MAR-09		
HY184 SALVAGE SUPPORT SYSTEMS		1	0.356	WASHINGTON DC	N/A	C/CPAF	GLOBAL PCCI, IRVINE CA	MAR-08	MAR-09	YES	
HY191 MOBILE DIVING & SALVAGE UNIT OUTFITTING EQUIP		1	1.290	WASHINGTON DC	N/A	C/CPAF	KDH, JOHNSTON PA	JUN-08	MAR-09	YES	

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE DIVING AND SALVAGE EQUIPMENT BLIN: 1130				SUBHEAD 81HY	
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										
HY176 H.P. AIR COMPRESSORS	1	0.064	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-09	AUG-09	YES	
HY177 AIR PURIFICATION UNITS	12	0.004	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-09	APR-10		
HY192 THERMAL DIVING SUITS	1	0.002	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-09	APR-10		
HY193 SURFACE SUPPLIED DIVING HELMET	50	0.006	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-09	APR-10		
HY196 UWSH SUBMARINE SUPPORT SYSTEM	2	0.389	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-09	APR-10		
HY050 SYNTHETIC LINES	1	0.187	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-09	APR-10	YES	
HY106 LIGHTWEIGHT DIVE SYSTEMS										
C. PORTABLE AIR DIVE CONSOLES	10	0.036	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-09	APR-10		
D. PORTABLE OXYGEN DIVE CONSOLES	10	0.026	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-09	APR-10		
HY107 PORTABLE RECOMPRESSION CHAMBERS										
B. HP COMPOSITE FLASK REPLACEMENT	121	0.003	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	MAR-09	MAR-10	YES	
HY123 FLYAWAY DIVE SYSTEM III										
F. FADS III SUPPORT EQUIPMENT	10	0.027	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-09	APR-10		
HY132 RECOMPRESSION CHAMBERS										
A. PORTABLE/CONTAINERIZED CHAMBERS	1	0.928	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-09	APR-10	YES	
C. CHAMBER SUPPORT EQUIPMENT	1	0.200	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-09	APR-10	YES	
HY169 UWSH POWER TOOLS	1	0.131	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-09	APR-10	YES	
HY179 NAVY EXPERIMENTAL DIVING UNIT NAVY EXPERIMENTAL DIVING UNIT	1	0.341	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-09	APR-10		

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE DIVING AND SALVAGE EQUIPMENT BLIN: 1130				SUBHEAD 81HY	
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
HY184 SALVAGE SUPPORT SYSTEMS	7	0.128	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-09	APR-10	YES	
HY191 MOBILE DIVING & SALVAGE UNIT OUTFITTING EQUIP	1	1.396	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-09	APR-10	YES	
FY 2010										
HY116 PORTABLE SUBMERSIBLE PUMPS	3	0.060	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-10	APR-11		
HY154 WATER PURIFIERS	2	0.070	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-10	APR-11		
HY155 POWER GENERATORS	4	0.012	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-10	APR-11		
HY176 H.P. AIR COMPRESSORS	3	0.048	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-10	APR-11		
HY177 AIR PURIFICATION UNITS	5	0.014	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-10	APR-11		
HY192 THERMAL DIVING SUITS	28	0.002	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-10	APR-11		
HY193 SURFACE SUPPLIED DIVING HELMET	50	0.006	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-10	APR-11		
HY194 CONTAMINATED WATER DIVING EQUIPMENT	2	0.051	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-10	APR-11		
HY196 UWSH SUBMARINE SUPPORT SYSTEM	1	0.436	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-10	APR-11		
HY197 UWSH PIERSIDE SUPPORT VANS	3	0.192	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-10	APR-11		
HY106 LIGHTWEIGHT DIVE SYSTEMS A. SYSTEMS	1	0.166	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-10	APR-11		

CLASSIFICATION:		UNCLASSIFIED								
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE DIVING AND SALVAGE EQUIPMENT BLIN: 1130				SUBHEAD 81HY	
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
C. PORTABLE AIR DIVE CONSOLES	11	0.039	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-10	APR-11		
D. PORTABLE OXYGEN DIVE CONSOLES	11	0.026	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-10	APR-11		
HY123 FLYAWAY DIVE SYSTEM III										
A. HIGH PRESSURE AIR SYSTEMS	2	0.344	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-10	APR-11		
F. FADS III SUPPORT EQUIPMENT	1	0.035	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-10	APR-11		
G. HP COMPOSITE FLASK REPLACEMENT	72	0.004	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-10	APR-11		
HY145										
COFFERDAM SYSTEM	1	0.229	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-10	APR-11		
HY179 NAVY EXPERIMENTAL DIVING UNIT										
NAVY EXPERIMENTAL DIVING UNIT	1	0.347	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-10	APR-11		
HY184										
SALVAGE SUPPORT SYSTEMS	9	0.051	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-10	APR-11		
HY199										
NAVY DIVE COMPUTER	292	0.001	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-10	APR-11		

CLASSIFICATION:		UNCLASSIFIED											
Exhibit P-40, BUDGET ITEM JUSTIFICATION										DATE		May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						P-1 LINE ITEM NOMENCLATURE STANDARD BOATS SUBHEAD NO. 11H0 BLI: 1210							
Program Element for Code B Items						Other Related Program Elements							
	Prior Years	ID Code		FY 2008	FY 2009	Baseline FY 2010	OCO FY 2010	Total FY 2010					
Quantity	160			89	48	88	5	93					
COST (In Millions)	77.1			88.5	26.8	35.3	13.0	48.3					
SPARES COST (In Millions)	0.0	0		0.0	0.0	0.0	0.0	0.0					
PROGRAM DESCRIPTION/JUSTIFICATION:													
Naval Sea Systems Command (NAVSEA) -- Boats are procured to fill allowances established by CNO and NAVSEA and to replace boats now in service which are beyond economical repair at shore activities and aboard ships. Total inventory objectives change based on Fleet requirements.													
Strategic Systems programs (SSP) -- Nuclear Weapon Security Manual (DoD S-5210.41M) requires armed escort of TRIDENT submarines (SSBNs) transiting on the surface near homeport. The procurement of a variety of vessels armed with specialized weapons is required to meet this DoD armed escort requirement.													
FY 2008 funding includes \$17.874M in GWOT Supplemental.													
H0028 7M (24FT) RIGID INFLATABLE BOAT (RIB)													
Diesel powered, primarily used as ship's lifeboats, search and rescue boats, liberty boats, and for general transportation on auxiliaries, combatants, carriers, amphibious, and shore activities. Also used for Anti-Terrorism/Force Protection (AT/FP) and Maritime Interdiction Operation/Vessel Boarding Search and Seizure (MIO/VBSS) operations. Service life is 12 years.													
H0035 EOD SUPPORT CRAFT (RIB)													
Used for area search, MK 5 and MK 16 UBA/Diving Training, Mammal Operations, Ordnance/mine recovery, parachute insertion support and Command and Control. Service life is 10 years.													
H0039 11M (36FT) RIGID INFLATABLE BOAT (RIB)													
Carried as a ship's boat or assigned to a shore activity to perform a variety of operations including personnel and light cargo transfer, anchorage administration AT/FP operations and swimmer defense, visit/boarding/search and maritime interdiction, Amphibious Assault Vehicle (AAV) safety boat and Advanced Amphibious Assault Vehicle (AAAV) assist boat. Anticipated service life is 12 years.													
H0040 FORCE PROTECTION BOAT (SMALL)													
Light gasoline twin outboard engine powered (up to 150 hp each) aluminum boats from 7 to 8.2 meters (24 to 27 ft) in length used primarily for fleet force protection, maritime interdiction, law enforcement operations, at Naval activities and adjacent ports and waterways duties. Can operate in areas where the													

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE STANDARD BOATS SUBHEAD NO. 11H0 BLI: 1210	
<p>environment (sea states/climatology) does not present a significant challenge. Service life is 7 years.</p> <p>H0041 FORCE PROTECTION BOAT (MEDIUM) Heavy gasoline outboard engine powered (over 150 hp each) aluminum boats from 8.2 to 9 meters (27 to 30 ft) in length used primarily for fleet force protection, maritime interdiction, law enforcement operations at Naval activities and adjacent ports and waterways duties. Needed for operations in areas where the environment (sea states/climatology) are significant enough to necessitate the larger boat and resultant larger engines to meet the performance/operational requirements. Service life is 7 years.</p> <p>H0042 FORCE PROTECTION BOAT (LARGE) Twin diesel engine powered aluminum boats over 9 meters (30 ft) in length used primarily for fleet force protection, maritime interdiction, law enforcement operations, at Naval activities and adjacent ports and waterways duties. Needed in areas where the environment (sea states/climatology) necessitate a larger boat for dependability. Too heavy to meet the performance/operational requirements with outboard engines. Service life is 7 years.</p> <p>H0048 NSW LONG RANGE SUPPORT CRAFT SEAL combat swimmer/SEAL Delivery Vehicle (SDV)/surface swimmer safety craft for offshore/open ocean training support. Provides transportation to/from training areas, dive supervisor/event officer-in-charge/corpsman safety support platform and injured diver/swimmer egress platform for Naval Special Warfare. Anticipated service life is 10 years.</p> <p>H0049 RIVERINE MULTI-MISSION CRAFT Provides the Navy the ability to conduct shaping and stability (Phase 0) operations, maritime security and additional tasks related to the Global War on Terrorism (GWOT) on inland waterways. Anticipated service life is 8 years.</p> <p>H0050 NSW SHORT RANGE SUPPORT CRAFT Used in support of combat swimmer-diver training evolutions and the Special Warfare Combatant Craft (SWCC) Basic Crewman Training curriculum. Anticipated service life is 10 years.</p> <p>H0051 RIVERINE COMMAND & CONTROL CRAFT Provides the Navy the ability to support Phase 0, maritime security and combat operations in support of the GWOT on inland waterways; specially configured with robust communications capabilities. Anticipated service life is 8 years.</p> <p>H0052 WORKBOAT (MEDIUM) Heavy duty twin Diesel inboard engine powered aluminum or steel boats, less than 11.5 meters (38 ft) in length used primarily for heavier and or more powerful multi-purpose workboat applications at Naval activities and adjacent ports and waterways duties, such as line handling, cargo carrying, harbor cleaning, firefighting, diver support, pusher boat and security barrier tending. The WB(M) is needed for operations in areas where the environment (sea states/climatology) are significant enough to necessitate the larger boat and resultant larger engines to meet the performance/operational, including high bollard pull security barrier towing and pusher boat requirements. Service life is 20 years.</p> <p>H0053 90 FT RANGE TRAINING SUPPORT CRAFT Workboat type vessel to serve US Navy Weapons Systems Training and Validation, assisting fleet operations conducting acoustical, thermal and cross-section measurements and testing. Hulls to be steel or aluminum with aluminum superstructure and corrosion resistant systems, components and hardware to operate in</p>		

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE STANDARD BOATS SUBHEAD NO. 11H0 BLI: 1210	
<p>industrial conditions with minimal maintenance. Seakindliness underway and while loitering for extended periods are among the primary operational requirements. A large open workspace on the after deck with a retrieval ramp providing access to the water and appropriate weapons handling machinery. Weapons systems equipment to be handled includes missiles, torpedos, surface and air launched ROVs and targets. Minimal freeboard height aft is necessary for crew safety while accessing and operating the weapons retrieval mechanism without compromising stability. Habitability requirements include berthing, galley, mess, lounge, head(s), generator set(s), HVAC system and defrosters. The boat must be able to accommodate extreme loading conditions (i.e., from a full weapons load topside to light load). The boat must be as stable and as wide as possible to provide the inherent stability characteristics necessary to perform the operations and necessary to provide ergonomics for the crew and passengers. Requirements include communications, navigation and other electronics systems necessary to support the sophisticated training, validation and recording of specialized measurements to support a wide variety of operations. A Commercial Off The Shelf (COTS) boat built to recognized commercial standards can accomplish specific operational requirements for the mission. Service Life is 25 years.</p> <p>H0054 120 FT RANGE TRAINING SUPPORT CRAFT Workboat type vessel to serve US Navy Weapons Systems Training and Validation, assisting fleet operations conducting acoustical, thermal and cross-section measurements and testing. Hulls to be steel or aluminum with aluminum superstructure and corrosion resistant systems, components and hardware to operate in industrial conditions with minimal maintenance. Seakindliness underway and while loitering for extended periods are among the primary operational requirements. A large open workspace on the after deck with a retrieval ramp providing access to the water and appropriate weapons handling machinery. Weapons systems equipment to be handled includes missiles, torpedos, surface and air launched ROVs and targets. Minimal freeboard height aft is necessary for crew safety while accessing and operating the weapons retrieval mechanism without compromising stability. Habitability requirements include berthing, galley, mess, lounge, head(s), generator set(s), HVAC system and defrosters. The boat must be able to accommodate extreme loading conditions (i.e., from a full weapons load topside to light load). The boat must be as stable and as wide as possible to provide the inherent stability characteristics necessary to perform the operations and necessary to provide ergonomics for the crew and passengers. Requirements include communications, navigation and other electronics systems necessary to support the sophisticated training, validation and recording of specialized measurements to support a wide variety of operations. A Commercial Off The Shelf (COTS) boat built to recognized commercial standards can accomplish specific operational requirements for the mission. Service Life is 25 years.</p> <p>H00S3 SMALL ESCORT VESSEL (33') 33' weaponized vessel capable of 55 knots and operations in 8' seas. Armed with M240 machine gun.</p> <p>H0830 PRODUCTION ENGINEERING Used for development of technical data packages, technical support, Acceptance Test and Evaluation, manual development and printing, trials, boat inspections, etc. Also, life raft inspections, QA and production oversight, etc.</p>		

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE STANDARD BOATS SUBHEAD NO. 11H0 BLI: 1210	
<p>H0CA1 LIFE RAFTS Designated as the MK 7 (25-person) and MK 8 (50-person), these rafts incorporate Safety of Life at SEA (SOLAS) requirements and are based on a commercial, Coast Guard approved design. The rafts include a standard container system, improved inflation system and improved survival equipment. These rafts will replace the aging MK 6's that are reaching the end of their service life and are no longer in production. The Navy has approximately 7,500 life rafts installed on U.S. Naval surface ships. The 25-person and 50-person rafts are the primary means of survival for the ship's crew should abandon ship be required.</p> <p>H0CA2 BOAT LIFTS Hydraulically operated, electrically powered boat lift for boats up to 13,000 lbs. The lift structure to be aluminum and plastic with corrosion resistant components and hardware to operate in industrial conditions with minimal maintenance. This unit would serve to give the receiving unit additional capabilities of on-site lifting to perform maintenance required to be done out of the water and to reduce maintenance through ready-boat stowage out of the water. The lift employs environmentally safe hydraulic fluid, A/C charging system, rubber capped bunk system and remote control features. A Commercial-Off-The- Shelf (COTS) lift can accomplish the specific requirements. That is, the performance requirements for the Float Lift Boat Lift are not sufficiently extreme or rigorous enough to warrant custom design and/or fabrication methods or materials.</p> <p>H0CA4 WEAPON RETRIEVAL Twin diesel powered Workboat type vessel from 24 to 30 meters (80 to 100 ft) monohull or equivalent multi-hull in length to serve US Navy Weapons Systems Training and Validation, assisting fleet operations conducting acoustical, thermal and cross-section measurements and testing. Hulls to be steel or aluminum with aluminum superstructure and corrosion resistant systems, components and hardware to operate in industrial conditions with minimal maintenance. Seakindliness underway and while loitering for extended periods are among the primary operational requirements. A large open workspace on the after deck with a retrieval ramp providing access to the water and appropriate weapons handling machinery. Weapons systems equipment to be handled includes missiles, torpedos, surface and air launched ROVs and targets. Minimal freeboard height aft is necessary for crew safety while accessing and operating the weapons retrieval mechanism without compromising stability. Habitability requirements include berthing, galley, mess, lounge, head(s), generator set(s), HVAC system and defrosters. The boat must be able to accommodate extreme loading conditions (i.e., from a full weapons load topside to light load). The boat must be as stable and as wide as possible to provide the inherent stability characteristics necessary to perform the operations and necessary to provide ergonomics for the crew and passengers. Requirements include communications, navigation and other electronics systems necessary to support the sophisticated training, validation and recording of specialized measurements to support a wide variety of operations. A Commercial Off The Shelf (COTS) boat built to recognized commercial standards can accomplish specific operational requirements for the mission. Service Life is 25 years.</p> <p>H0CA5 DIVE BOAT REPLACEMENTS Operations involving diving or the need to deploy support equipment at or near the water. Examples include dive operations focusing on underwater ships husbandry of Fleet assets, training, underwater survey and RDT&E, as well as, general ports and waterways operations, routine harbor maintenance and cleanup duties, and to assist in patrol, rescue, fire fighting and picket operations. Cored hull laminate w/fire-retardant vinylester resin, walk thru cabin, seating for coxswain & navigator, bench seating for four passengers, polyurethane "D-shaped" foam collar, bits forward & aft, engine guard rail, dive door (stbd),</p>		

CLASSIFICATION:	UNCLASSIFIED		
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)			DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE STANDARD BOATS SUBHEAD NO. 11H0 BLI: 1210		
<p>certified hoisting fittings & hoisting sling. Twin Honda 135 hp 4 cycle outboard engines (25 shaft length, counter rotating, model BF 135), engine break-in & post break-in service maintenance items complete. Cabin light, sliding windows, wiper assembly, heater, VHF radio w/ hailer, spotlight, electric bilge pump, battery charger, spare parts, aluminum trailer w/ pintle hitch. Service life: 12.7 years.</p> <p>H0CA6 HIGH SPEED ALUMINUM TOWABLE BOAT LIFTS An advanced Aluminum High Speed Flexible Boat Lift System for Amphibious Transportation Lifting and Storage (AATLAS) that will save space both on and off the water, and improve rapid deployment and recovery of floating base assets. This system will provide for on-water dry storage and use the same device for launch, recovery, transportation and yard storage of Navy craft weighing up to 24,000 pounds.</p> <p>H0CA7 66 FOOT COASTAL COMMAND BOAT A replacement boat for the next generation Force Protection Large for the Maritime Expeditionary Security Forces (MESF) with the capability to persistently patrol shallow littoral areas beyond sheltered harbors and bays, and into less sheltered open water out to the Departure Sea Area (DSA) for the purpose of force protection of friendly and coalition forces and critical infrastructure. The craft will provide adequate space and weight allowance for required crew, payload, C4ISR, weapons and ballistic protection. Service life is anticipated to be 7-10 years.</p> <p>H0G86 OPERATION IRAQI FREEDOM (OIF)/OVERSEAS CONTINGENCY OPERATION (OCO) Consists of the following boats: 7m Rigid Inflatable Boats (RIB), 11m Rigid Inflatable Boats (RIB), Force Protection Small (FP Small), Force Protection Large (FP Large), Riverine Assault Boats, and Riverine Patrols Boats for Non-Compliant Boarding (NCB) Visit, Board, Search and Seizure (VBSS) training. Training supports VBSS Level I/II threat conditions. Also includes Mobile Diving and Salvage Unit (MDSU) boats and Force Protection Coastal (FPC) to provide capability called for in Visit, Board, Search and Seizure (VBSS) overwatch Urgent Operational Needs Statement (UONS) that cannot be met with existing boats. Service life is 10 years.</p>			

CLASSIFICATION:		UNCLASSIFIED																
EXHIBIT P-5 COST ANALYSIS		Weapon System														DATE		
APPROPRIATION/BUDGET ACTIVITY		ID Code		P-1 LINE ITEM NOMENCLATURE														
OTHER PROCUREMENT, NAVY/BA 1				STANDARD BOATS														
				SUBHEAD NO. 11H0														
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 FY 2010		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	EQUIPMENT																	
H0CA2	BOAT LIFTS		1.691	0	0.000	1.600	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
H0CA6	HIGH SPEED ALUMINUM TOWABLE BOAT LIFTS		0.000	0	0.000	0.000	0	0.000	4.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
H0CA7	66 FT COASTAL COMMAND BOAT		0.000	0	0.000	0.000	0	0.000	5.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
H0028	7M RIGID INFLATABLE BOAT (RIB)		6.237	9	0.168	1.512	9	0.165	1.485	21	0.170	3.570	0	0.000	0.000	21	0.170	3.570
H0035	EOD SUPPORT CRAFT		2.475	5	0.135	0.675	0	0.000	0.000	16	0.141	2.256	0	0.000	0.000	16	0.141	2.256
H0039	11M (36 FT) RIGID INFLATABLE BOAT (RIB)		2.100	2	0.568	1.135	3	0.550	1.650	3	0.560	1.680	0	0.000	0.000	3	0.560	1.680
H0040	FORCE PROTECTION (SMALL)		6.585	0	0.000	0.000	8	0.225	1.800	6	0.231	1.386	0	0.000	0.000	6	0.231	1.386
H0041	FORCE PROTECTION (MEDIUM)		0.000	8	0.248	1.984	12	0.255	3.060	10	0.260	2.600	0	0.000	0.000	10	0.260	2.600
H0042	FORCE PROTECTION (LARGE)		18.896	1	0.668	0.668	10	0.682	6.820	9	0.696	6.264	0	0.000	0.000	9	0.696	6.264
H0048	NSW LONG RANGE SUPPORT CRAFT		2.680	0	0.000	0.000	2	0.284	0.568	2	0.292	0.584	0	0.000	0.000	2	0.292	0.584
H0049	RIVERINE MULTI-MISSION CRAFT		18.750	9	1.133	10.197	0	0.000	0.000	2	1.202	2.404	0	0.000	0.000	2	1.202	2.404
H0050	NSW SHORT RANGE SUPPORT CRAFT		0.000	10	0.276	2.760	3	0.284	0.852	3	0.292	0.876	0	0.000	0.000	3	0.292	0.876
H0051	RIVERINE COMMAND & CONTROL CRAFT		8.000	11	1.030	11.330	0	0.000	0.000	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	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1			ID Code		P-1 LINE ITEM NOMENCLATURE STANDARD BOATS SUBHEAD NO. 11H0													
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 FY 2010			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
H0052	WORKBOAT (MEDIUM)		0.000	0	0.000	0.000	1	0.534	0.534	4	0.545	2.180	0	0.000	0.000	4	0.545	2.180
H0053	90 FT RANGE SUPPORT TRAINING CRAFT		0.000	1	7.000	7.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
H0054	120 FT RANGE SUPPORT TRAINING CRAFT		0.000	2	12.000	24.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
H00S3	<u>SMALL ESCORT VESSELS (33')</u> SSP		0.000	0	0.000	0.000	0	0.000	0.000	12	0.834	10.010	0	0.000	0.000	12	0.834	10.010
H0830	PRODUCTION ENGINEERING		1.861	0	0.000	1.185	0	0.000	0.513	0	0.000	0.786	0	0.000	0.000	0	0.000	0.786
H0900	CONSULTING SERVICES		1.664	0	0.000	1.050	0	0.000	0.478	0	0.000	0.722	0	0.000	0.000	0	0.000	0.722
H0G86	OPERATION IRAQI FREEDOM (OIF)		0.000	28	0.638	17.874	0	0.000	0.000	0	0.000	0.000	5	2.600	13.000	5	2.600	13.000
H0CA1	LIFE RAFTS		6.191	0	0.000	1.600	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
H0CA4	<u>WEAPONS RETRIEVAL</u> WEAPONS RETRIEVAL		0.000	1	1.574	1.574	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
H0CA5	<u>DIVE BOAT REPLACEMENT</u> DIVE BOAT REPLACEMENTS		0.000	2	1.200	2.400	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	TOTAL EQUIPMENT		77.130			88.544			26.760			35.318			13.000			48.318
	TOTAL		77.130			88.544			26.760			35.318			13.000			48.318

CLASSIFICATION:				UNCLASSIFIED							
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE STANDARD BOATS BLIN: 1210				SUBHEAD 11H0		
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											
H0028	7M RIGID INFLATABLE BOAT (RIB)	9	0.168	NAVSEA		GSA	WILLARD MARINE	APR-08	AUG-08		
H0035	EOD SUPPORT CRAFT	5	0.135	NAVSEA		GSA	ZODIAC	SEP-08	MAR-09		
H0039	11M (36 FT) RIGID INFLATABLE BOAT (RIB)	2	0.568	NAVSEA		GSA	WILLARD MARINE	MAY-08	FEB-09		
H0041	FORCE PROTECTION (MEDIUM)	8	0.248	NAVSEA		GSA	SEAARK	SEP-08	MAR-09		
H0042	FORCE PROTECTION (LARGE)	1	0.668	NAVSEA		GSA	SEAARK	APR-08	DEC-08		
H0049	RIVERINE MULTI-MISSION CRAFT	9	1.133	NAVSEA		GSA	SAFEBOAT	MAR-08	OCT-08		
H0050	NSW SHORT RANGE SUPPORT CRAFT	10	0.276	NAVSEA		GSA	SILVERSHIPS	APR-08	SEP-08		
H0051	RIVERINE COMMAND & CONTROL CRAFT	11	1.030	NAVSEA		GSA	SAFEBOAT	APR-08	FEB-09		
H0053	90 FT RANGE SUPPORT TRAINING CRAFT	1	7.000	NAVSEA		GSA	MARINE GROUP	OCT-08	JUL-09		
H0054	120 FT RANGE SUPPORT TRAINING CRAFT	2	12.000	NAVSEA		GSA	MARINE GROUP	OCT-08	JUL-09		
H0CA4 WEAPONS RETRIEVAL	WEAPONS RETRIEVAL	1	1.574	NAVSEA		GSA	TBD	OCT-09	JUN-10		
H0CA5 DIVE BOAT REPLACEMENT	DIVE BOAT REPLACEMENTS	2	1.200	NAVSEA		GSA	NORTHRIVER	JUL-09	APR-10		
H0G86	OPERATION IRAQI FREEDOM (OIF)	28	0.638	NAVSEA		GSA	SAFEBOAT	JUN-09	APR-10		
FY 2009											

CLASSIFICATION:		UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE STANDARD BOATS BLIN: 1210				SUBHEAD 11H0		
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	
H0028 7M RIGID INFLATABLE BOAT (RIB)	9	0.165	NAVSEA		GSA	WILLARD MARINE	JUL-09	OCT-09			
H0039 11M (36 FT) RIGID INFLATABLE BOAT (RIB)	3	0.550	NAVSEA		GSA	WILLARD MARINE	AUG-09	MAY-10			
H0040 FORCE PROTECTION (SMALL)	8	0.225	NAVSEA		GSA	SAFEBOAT	JUL-09	DEC-09			
H0041 FORCE PROTECTION (MEDIUM)	12	0.255	NAVSEA		GSA	SEAARK	JUN-09	DEC-09			
H0042 FORCE PROTECTION (LARGE)	10	0.682	NAVSEA		GSA	SEAARK	JUN-09	DEC-09			
H0048 NSW LONG RANGE SUPPORT CRAFT	2	0.284	NAVSEA		GSA	SILVERSHIPS	APR-09	AUG-09			
H0050 NSW SHORT RANGE SUPPORT CRAFT	3	0.284	NAVSEA		GSA	SILVERSHIPS	APR-09	AUG-09			
H0052 WORKBOAT (MEDIUM)	1	0.534	NAVSEA		GSA	MODUTECH	AUG-09	FEB-10			
FY 2010											
H0028 7M RIGID INFLATABLE BOAT (RIB)	21	0.170	NAVSEA		GSA	WILLARD MARINE	FEB-10	JUN-10			
H0035 EOD SUPPORT CRAFT	16	0.141	NAVSEA		GSA	TBD	JUN-10	DEC-10			
H0039 11M (36 FT) RIGID INFLATABLE BOAT (RIB)	3	0.560	NAVSEA		GSA	WILLARD MARINE	FEB-10	NOV-10			
H0040 FORCE PROTECTION (SMALL)	6	0.231	NAVSEA		GSA	TBD	MAR-10	AUG-10			
H0041 FORCE PROTECTION (MEDIUM)	10	0.260	NAVSEA		GSA	TBD	MAR-10	SEP-10			

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE STANDARD BOATS BLIN: 1210				SUBHEAD 11H0	
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
H0042 FORCE PROTECTION (LARGE)	9	0.696	NAVSEA		GSA	TBD	JUN-10	FEB-11		
H0048 NSW LONG RANGE SUPPORT CRAFT	2	0.292	NAVSEA		GSA	SILVERSHIPS	FEB-10	JUL-10		
H0049 RIVERINE MULTI-MISSION CRAFT	2	1.202	NAVSEA		GSA	SAFEBOAT	JUN-10	JAN-11		
H0050 NSW SHORT RANGE SUPPORT CRAFT	3	0.292	NAVSEA		GSA	SILVERSHIPS	FEB-10	JUL-10		
H0052 WORKBOAT (MEDIUM)	4	0.545	NAVSEA		GSA	TBD	FEB-10	AUG-10		
H00S3 SMALL ESCORT VESSELS (33') SSP	12	0.834	USCG		COMPETITIVE	SAFEBOAT	DEC-09	JUL-10		
H0G86 OPERATION IRAQI FREEDOM (OIF)	5	2.600	NAVSEA		GSA	TBD	JAN-10	SEP-10		

CLASSIFICATION:		UNCLASSIFIED										
Exhibit P-40, BUDGET ITEM JUSTIFICATION										DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						P-1 LINE ITEM NOMENCLATURE OTHER SHIPS TRAINING EQUIPMENT SUBHEAD NO. 81H5 BLI: 1320						
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)	35.5	A		9.2	5.7	15.1						
SPARES COST (In Millions)	0.0	0		0.0	0.0	0.0						
PROGRAM DESCRIPTION/JUSTIFICATION:												
The equipment procured under the Other Ships Training Equipment line supports Hull, Mechanical, and Electrical (HM&E) training requirements:												
(H5265) Surface Sustaining TTE												
Funds procure HM&E technical training equipment (TTE) identified by the Naval Education & Training Command (NETC) for the training activities. Provides equipment to augment existing TTE due to increased student throughput and replaces equipment beyond economical repair.												
(H5276) Subsurface Sustaining TTE												
Funds procure Subsurface HM&E Fleet and Team Trainer Technical Training Equipment (TTE), Training Enhancement Changes (TECs), support equipment, and simulators/stimulators, such as the Bridge Team Trainer (BTT), identified by the Submarine Learning Center (SLC) and approved by CNO, for use at the submarine training activities. This TTE sustains a better quality of training and replaces equipment beyond economical repair or procures new equipment.												
Fleet Interactive Display Equipment (FIDE) trainers are provided for nuclear power plant training. FIDE's support multiple ship classes and FIDE configurations at 10 different geographic sites, each requiring different levels of facility modifications; thus the cost for the program varies widely from year to year depending on these combinations of factors. VA Class trainers are procured for the 2nd and 3rd home ports and for configuration updates to existing trainers at NSS, New London.												

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS						Weapon System				DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						ID Code		P-1 LINE ITEM NOMENCLATURE OTHER SHIPS TRAINING EQUIPMENT SUBHEAD NO. 81H5				
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
	<u>EQUIPMENT</u>											
H5265	<u>SURFACE SUSTAINING TTE</u>	A	6.065	0	0.000	0.647	0	0.000	0.657	0.000	0.663	
	SURFACE SUSTAINING TTE		Subtotal	6.065			0.647			0.657		0.663
H5276	<u>SUBSURFACE SUSTAINING TTE</u>											
	FIDE CVN	A	0.718	0	0.000	2.673	0	0.000	1.022	0	0.000	3.528
	FIDE SUB	A	1.199	0	0.000	3.016	0	0.000	1.111	0	0.000	3.330
	SUSTAINING TTE	A	27.487	0	0.000	2.057	0	0.000	2.022	0	0.000	1.863
	VA CLASS TRAINER ILPE/NLON	A	0.000	1	0.365	0.365	0	0.000	0.000	0	0.000	0.000
	VA CLASS TRAINER - VSCMT/NLON	A	0.000	0	0.000	0.000	1	0.430	0.430	0	0.000	0.000
	VA CLASS TRAINER - TORP ROOM NLON	A	0.000	0	0.000	0.000	1	0.430	0.430	0	0.000	0.000
	VA CLASS HM&E NLON	A	0.000	0	0.000	0.000	0	0.000	0.000	1	0.450	0.450
	VA CLASS CAMS MKII	A	0.000	0	0.000	0.000	0	0.000	0.000	1	2.450	2.450
	VA CLASS ILPE FRONT PANEL SIMULATOR	A	0.000	0	0.000	0.000	0	0.000	0.000	2	0.216	0.431
	VA CLASS TRAINER - FIRE FIGHTING	A	0.000	1	0.040	0.040	0	0.000	0.000	1	0.042	0.042
	VA CLASS TRAINER - R-134A A/C	A	0.000	1	0.365	0.365	0	0.000	0.000	2	1.178	2.356
	Subtotal		29.404			8.516			5.015			14.450
	TOTAL EQUIPMENT		35.469			9.163			5.672			15.113
TOTAL			35.469			9.163			5.672			15.113

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE OTHER SHIPS TRAINING EQUIPMENT BLIN: 1320				SUBHEAD 81H5	
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										
H5276 SUBSURFACE SUSTAINING TTE										
VA CLASS TRAINER ILPE/NLON	1	0.365	NAVSEA	N/A	WR	NAVAIR TSD, ORLANDO	FEB-08	FEB-10	YES	
VA CLASS TRAINER - FIRE FIGHTING	1	0.040	NAVSEA	N/A	WR	NAVAIR TSD, ORLANDO	FEB-08	FEB-09	YES	
VA CLASS TRAINER - R-134A A/C	1	0.365	NAVSEA	N/A	WR	NAVAIR TSD, ORLANDO	FEB-08	FEB-09	YES	
FY 2009										
H5276 SUBSURFACE SUSTAINING TTE										
VA CLASS TRAINER - VSCMT/NLON	1	0.430	NAVSEA	N/A	WR	NSWC / CD	FEB-09	FEB-10	YES	FEB-09
VA CLASS TRAINER - TORP ROOM NLON	1	0.430	NAVSEA	N/A	WR	NAVAIR TSD, ORLANDO	FEB-09	FEB-10	YES	FEB-09
FY 2010										
H5276 SUBSURFACE SUSTAINING TTE										
VA CLASS HM&E NLON	1	0.450	NAVSEA	N/A	CPFF	ELECTRIC BOAT NEW LONDON	FEB-10	FEB-11		FEB-10
VA CLASS CAMS MKII	1	2.450	NAVSEA	N/A	WR	NSWC / CD PHILADELPHIA	FEB-10	FEB-11		FEB-10
VA CLASS ILPE FRONT PANEL SIMULATOR	2	0.216	NAVSEA	N/A	WR	NSWC / CD PHILADELPHIA	FEB-10	FEB-11	YES	
VA CLASS TRAINER - FIRE FIGHTING	1	0.042	NAVSEA	N/A	CPFF	ELECTRIC BOAT NEW LONDON	FEB-10	FEB-11		FEB-10
VA CLASS TRAINER - R-134A A/C	2	1.178	NAVSEA	N/A	CPFF	ELECTRIC BOAT NEW LONDON	FEB-10	FEB-11		FEB-10

CLASSIFICATION:		UNCLASSIFIED										
Exhibit P-40, BUDGET ITEM JUSTIFICATION										DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						P-1 LINE ITEM NOMENCLATURE OPERATING FORCES IPE SUBHEAD NO. 81KN BLI: 1445						
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)	74.4			49.9	55.5	47.2						
SPARES COST (In Millions)	0.0	0		0.0	0.0	0.0						
PROGRAM DESCRIPTION/JUSTIFICATION:												
<p>KN100: INDUSTRIAL PLANT EQUIPMENT (IPE) REPLACEMENT/ AFLOAT SUPPORT: These funds are used to procure industrial plant equipment for afloat (surface combatant) activities which provide maintenance capabilities for Sailors to maintain Ship's mission essential, operational readiness while deployed. The upgraded IPE increases deployed maintenance capability and enhances strike group's ability to remain on station through CASREP avoidance. The program provides new industrial plant equipment to replace equipment beyond economical repair and to upgrade capabilities for ship maintenance and repair.</p> <p>KN300: SHIPYARD CAPITAL INVESTMENT PROGRAM: This line item provides funding for the Shipyard Capital Investment Program in support of the consolidated Naval Shipyard and Intermediate Maintenance Facilities at the four mission funded Naval Shipyards. Funds will be used for the procurement and execution of Class 3 & 4 plant and personal property projects to maintain, modernize, and improve the infrastructure and industrial base at the mission funded Naval Shipyard/IMF activities. Funding will allow for the acquisition of equipment and OP,N related ADP Hardware/Software necessary to perform the mission of repairing, conversion, and modernization of fleet ships and submarines in the most economical, efficient, environmentally sound, and safe manner possible. Background: Pearl Harbor Naval Shipyard and Intermediate Maintenance Facility (PHNSY&IMF) activity was established at the beginning of FY99 in accordance with the MOA between NAVSEA and COMPACFLT, NAVSEA Itr 5450 Ser 00/133 of 31 Oct 97 / PACFLT Itr 5450 Ser 00/5445 of 26 Nov 97. Puget Sound Naval Shipyard and Intermediate Maintenance Facility (PSNS&IMF) was established at the beginning of FY04 in accordance with the MOA between NAVSEA and CINCPACFLT, NAVSEA Itr 5450 Ser 00/023 of 1 May 03 / COMPACFLT Itr 5450 Ser N00/3217 of 5 May 03. The remaining two Naval Shipyards (Portsmouth and Norfolk) previously operating under the Navy Working Capital Fund (NWCf), were transitioned to direct mission funding beginning in FY 2007.</p> <p>KN400: MINI/MICROMINIATURE ELECTRONIC TEST AND REPAIR: The Navy 2M Module Test & Repair (MTR) Program provides sailors with the capability to repair electronic Circuit Card Assemblies (CCAs) and Electronic Modules (EMs) at Intermediate Maintenance Activities and aboard most combatants. Funding to requirement levels will enable Navy cost avoidance annually by Fleet maintenance levels executing CCA repairs in lieu of more expensive depot sites. The services provided by 2M allow new repair tools to be selected, deployed, and supported in the Fleet in time to support new CCA technologies. Deploying Automatic Test (ATE) and Diagnostic Equipment, and their respective Test Program Sets and Gold Disks allows shipboard personnel to test and diagnose circuit</p>												

CLASSIFICATION:	UNCLASSIFIED		
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)			DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE OPERATING FORCES IPE SUBHEAD NO. 81KN BLI: 1445		
<p>card assemblies at the site of the operational failure. The 2M Program (2M/ATE) together provide a complete electronics subassembly field level maintenance program, avoiding Fleet OPTAR costs and averting CASREPs. This funding is used to procure and deploy non-aviation Test Program Sets (TPSs) and Gold Disks. Due to changing technologies, CCAs currently in the Fleet range in price from \$500 to \$40K each. Currently deployed repair tools, equipment and repair processes will not support repair of CCAs containing advanced technologies such as surface mount and leadless ship carrier. This technology is now becoming prevalent in commercial and military equipment. Outyear funding will be used to procure and deploy commercial equipment to test and diagnose new electronic technologies being introduced into the Fleet.</p> <p>The value of the 2M repair program is not restricted to a platform or system nor is limited to purely monetary avoidances. The 2M repair program allows Fleet readiness to be maintained by providing a capability for quality Fleet repairs, thus reducing degradation of equipment reliability and availability. This is a continuing program. As such the quantities identified in this budget will be used to procure new technology tools and integrate capabilities to enable them to be more usable for the Sailor.</p> <p>KN600: REGIONAL MAINTENANCE AIS: Funding provides support for the Regional Maintenance Automated Information Systems (RMAIS) initiative. RMAIS is the sole provider of automated electronic brokering of ship maintenance actions among maintenance activities and provides visibility of maintenance/repair workload and status necessary to support sound maintenance management decisions locally, on a regional basis, and at the national level. RMAIS provides the Regional Maintenance Center with the capability to efficiently manage all maintenance and repair resources. Funds will be used to procure computer hardware and software needed to refresh aging systems and keep security requirements current.</p> <p>KN700: DISTANCE SUPPORT: These funds support the Anchor Desk (Integrated Call Center), Customer Relations Management (CRM) solutions, implementation and standardization of various tele-assistance/telemaintenance tools, collaborative infrastructure support and metrics/data mining.</p>			

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS				Weapon System						DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code		P-1 LINE ITEM NOMENCLATURE OPERATING FORCES IPE SUBHEAD NO. 81KN						
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
	<u>EQUIPMENT</u>											
KN800	IPDE ENHANCEMENT		1.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	Equipment Subtotal		1.000			0.000			0.000			0.000
	<u>LOGISTICS</u>											
KN300	SHIPYARD CAPITAL INVESTMENT PROGRAM		67.179	0	0.000	47.984	0	0.000	55.181	0	0.000	45.322
KN400	MINI/MICROMINIATURE ELEC TEST & REPAIR		1.008	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
KN600	REGIONAL MAINTENANCE AIS		1.907	0	0.000	0.300	0	0.000	0.308	0	0.000	1.783
KN700	DISTANCE SUPPORT		2.459	0	0.000	1.128	0	0.000	0.042	0	0.000	0.067
	LOGISTICS Subtotal		72.553			49.412			55.531			47.172
	<u>SURFACE WARFARE</u>											
KN100	AFLOAT IPE SUPPORT (BFIMA UPGRADE) - SURFACE SUPPORT		0.851	0	0.000	0.443	0	0.000	0.000	0	0.000	0.000
	SURFACE WARFARE Subtotal		0.851			0.443			0.000			0.000
	TOTAL EQUIPMENT		74.404			49.855			55.531			47.172
TOTAL			74.404			49.855			55.531			47.172

CLASSIFICATION:		UNCLASSIFIED									
Exhibit P-40, BUDGET ITEM JUSTIFICATION										DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						P-1 LINE ITEM NOMENCLATURE LCS MODULES SUBHEAD NO. 11LM BLI: 1600					
Program Element for Code B Items						Other Related Program Elements PE 0603581N					
	Prior Years	ID Code		FY 2008	FY 2009	FY 2010					
Quantity											
COST (In Millions)	115.0			0.0	73.7	137.3					
SPARES COST (In Millions)	0.0			0.0	4.8	10.3					
PROGRAM DESCRIPTION/JUSTIFICATION:											
Mission capabilities in littoral mine warfare, small boat neutralization and littoral anti-submarine warfare to enable the US Joint Force to operate in the littoral for the LCS Class.											
Other Related Budgets: BLIs: 4248, 2622, 9020											
LM001 - MCM MISSION PACKAGE (MCM)											
The Mine Warfare Mission Package (MCM) will provide the Joint Force Commander with the capability to conduct Mine Counter Measure (MCM) operations ranging from first response mine detection and avoidance, to neutralization and sweeping in littoral conditions enabling Joint Forcible Entry operations. This will open transit lanes and operating areas for naval forces. MCM operations will reduce the access timeline in contested littorals. The MCM package consists of the following systems: COBRA (Coastal Battlefield Reconnaissance & Analysis), Airborne Laser Mine Detection System (ALMDS), Organic Airborne & Surface Influence Sweep (OASIS), Remote Multi-Mission Vehicle, AQS-20A Mine hunting Sonar, Airborne Mine Neutralization System (AMNS), Unmanned Surface Vehicle (USV) with Unmanned Surface Sweep System (USSS), Unmanned Undersea Vehicle with Low Frequency Broad Band (LFBB) and Support Containers.											
LM003 - LITTORAL SURFACE WARFARE MISSION PACKAGE (SUW)											
The Surface Warfare Mission Package (SUW) will provide the capability to detect, track and engage Fast Inshore Attack Craft (FIAC) (small boat) threats, giving the Joint Force Commander the ability to maximize striking power, shield High Value Units, or successfully move through a restricted area. The SUW package consists of the following systems: Non Line of Site-Launch System (NLOS-LS), the 30 mm Gun Module, and Containers.											
LM005 - MISSION MODULE ECP											
Supports Engineering Change Proposals for the systems in the MCM, ASW, and SUW mission packages.											

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1	P-1 LINE ITEM NOMENCLATURE LCS MODULES SUBHEAD NO. 11LM BLI: 1600	
<p>LM006 - LCS MISSION MODULE RADIOS Radio equipment to provide communications capability for LCS Mission Modules.</p> <p>LM007 - C-HAWKLINK SUPPORT EQUIPMENT (MPCE) Support equipment to support the HAWKLINK communications link between H-60 helicopters and the LCS ships in order to support Mission Module employment.</p> <p>LM008 - MISSION PACKAGE COMPUTER ENVIRONMENT COTS-Based Common Computing environment will support legacy MP C2 applications and transition to Modular Open Systems Approach (MOSA) & Navy Architecture Computing Environment (OACE).</p> <p>LM010 - MISSION PACKAGE INTEGRATION A System Engineering Partner from Industry Responsible to bring all modules together meeting all integration and interface requirements providing a path to the World-Wide Technology Market.</p> <p>LM012 - MISSION PACKAGE TRAINING Factory training for Mission Module Systems.</p> <p>LM013 - MARITIME SECURITY MODULE The Maritime Security Module provides Enhanced Maritime Interception Operation (EMIO), procures Vessel Board, Search and Seizure (VBSS) outfit night vision equipment, Rigid Hull Inflatable Boats (RHIB), cradles, and berthing support containers for the Maritime Security Modules.</p> <p>LM830 - PRODUCTION ENGINEERING Provides production engineering in support of the above procurements. This includes conduct of first article tests, factory acceptance tests, and other production support efforts directly related to procurement and delivery of the hardware. In addition, for Mission Module equipment, review all technical data packages prior to procurement and provide procurement instruction to the procuring activity in support of the Mission Modules unified procurement system.</p> <p>LM900 - CONSULTING SERVICES Provides Program Support on Mission Packages Systems for Spiral Alpha.</p>		

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS				Weapon System							DATE	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code		P-1 LINE ITEM NOMENCLATURE LCS MODULES SUBHEAD NO. 11LM						
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
	<u>EQUIPMENT</u>											
LM001	<u>MCM MISSION PACKAGE</u>											
	USV		1.675	0	0.000	0.000	0	0.000	0.000	1	5.743	5.743
	USV - SWEEP		2.410	0	0.000	0.000	0	0.000	0.000	1	2.644	2.644
	USV - CRADLE		0.050	0	0.000	0.000	0	0.000	0.000	1	0.062	0.062
	RMMV		15.571	0	0.000	0.000	2	11.300	22.600	2	11.300	22.600
	RMMV - CRADLE		0.000	0	0.000	0.000	2	3.713	7.426	2	3.713	7.426
	OASIS		0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	AMNS		1.995	0	0.000	0.000	1	2.800	2.800	1	2.822	2.822
	ALMDS		5.342	0	0.000	0.000	1	7.433	7.433	1	7.433	7.433
	AN/AQS-20A		17.319	0	0.000	0.000	3	7.260	21.780	3	7.260	21.780
	COBRA		2.500	0	0.000	0.000	0	0.000	0.000	1	3.267	3.267
	MCM - SUPPORT CONTAINER (10 PER MP)		2.080	0	0.000	0.000	10	0.393	3.930	10	0.393	3.930
	PRODUCTION ENGINEERING SUPPORT		1.306	0	0.000	0.000	0	0.000	2.982	0	0.000	1.259
	ILS/PUB/TECH DATA		1.096	0	0.000	0.000	0	0.000	1.239	0	0.000	0.000
	SUPPORT EQUIPMENT		1.814	0	0.000	0.000	0	0.000	0.000	0	0.000	5.367
	MCM BACKFIT - AQS-20A		5.773	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	MCM BACKFIT - AMNS		1.995	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
LM002	<u>ASW MISSION PACKAGE</u>											
	ILS/PUB/TECH DATA		0.347	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	SUPPORT EQUIPMENT		1.260	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	PRODUCTION ENGINEERING SUPPORT		0.290	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	RMMV		15.571	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
LM003	<u>SUW MISSION PACKAGE</u>											
	GUN MODULE		0.000	0	0.000	0.000	0	0.000	0.000	2	4.904	9.808

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)				Weapon System							DATE	
											May 2009	
APPROPRIATION/BUDGET ACTIVITY				ID Code		P-1 LINE ITEM NOMENCLATURE						
OTHER PROCUREMENT, NAVY/BA 1						LCS MODULES						
						SUBHEAD NO. 11LM						
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
	SUPPORT CONTAINER (10 PER MP)		0.000	0	0.000	0.000	0	0.000	0.000	10	0.389	3.891
	SURFACE-TO-SURFACE MISSILE MODULE (NLOS-LS)		0.000	0	0.000	0.000	0	0.000	0.000	1	4.781	4.781
LM005	<u>MISSION MODULE ECP</u>											
	ENGINEERING CHANGE PROPOSALS		14.900	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
LM006	LCS MISSION MODULES RADIO		0.000	0	0.000	0.000	0	0.000	0.000	2	1.322	2.643
LM007	<u>C-HAWKLINK SUPPORT EQUIPMENT</u>											
	C-HAWKLINK SUPPORT EQUIPMENT		0.000	0	0.000	0.000	0	0.000	0.466	0	0.000	5.433
LM008	MPCE		0.000	0	0.000	0.000	2	0.633	1.266	2	0.629	1.258
LM010	<u>MISSION PACKAGE INTEGRATION</u>											
	MISSION PACKAGE PRODUCTION ENGINEERING AND ASSEMBLY		0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	17.955
LM011	<u>SUPPORT EQUIPMENT</u>											
	MODULARIZATION & PACKAGING		10.979	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
LM012	MISSION PACKAGE TRAINING		0.000	0	0.000	0.000	0	0.000	1.200	0	0.000	0.000
LM013	MARITIME SECURITY MODULE		0.000	0	0.000	0.000	0	0.000	0.000	2	2.500	5.000
LM830	PRODUCTION ENGINEERING		9.779	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
LM900	CONSULTING SERVICES		0.989	0	0.000	0.000	0	0.000	0.560	0	0.000	2.157
	TOTAL EQUIPMENT		115.041			0.000			73.684			137.259
	TOTAL		115.041			0.000			73.684			137.259

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE LCS MODULES BLI: 1600				SUBHEAD 11LM	
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										
LM001 MCM MISSION PACKAGE										
RMMV	2	11.300	NAVSEA / NSWC	N/A	OPTION	LMC, SYRACUSE, NY	DEC-08	AUG-10		
RMMV - CRADLE	2	3.713	NSWC, PANAMA CITY FL	N/A	TBD	UNKNOWN	DEC-08	AUG-10		
AMNS	1	2.800	NAVSEA	JUN-08	SS/FP	RAYTHEON	JUN-09	NOV-10		
ALMDS	1	7.433	NSWC, PANAMA CITY FL	N/A	OPTION	NORTHROP GRUMMAN, FL	DEC-08	APR-10		
AN/AQS-20A	3	7.260	NAVSEA	N/A	OPTION	UNKNOWN	JAN-09	OCT-10	YES	
MCM - SUPPORT CONTAINER (10 PER MP)	10	0.393	TBD	N/A	TBD	UNKNOWN	DEC-08	JUN-10		
LM008										
MPCE	2	0.633	TBD	N/A	TBD	UNKNOWN	DEC-08	JUN-10		
FY 2010										
LM001 MCM MISSION PACKAGE										
USV	1	5.743	TBD	JUN-08	TBD	UNKNOWN	DEC-09	JUN-11		
USV - SWEEP	1	2.644	TBD	JUN-08	TBD	UNKNOWN	DEC-09	JUN-11		
USV - CRADLE	1	0.062	TBD	JUN-08	TBD	UNKNOWN	DEC-09	JUN-11		
RMMV	2	11.300	NAVSEA / NSWC	N/A	OPTION	LMC, SYRACUSE, NY	DEC-09	AUG-11		
RMMV - CRADLE	2	3.713	NSWC, PANAMA CITY FL	N/A	WX	NORTHROP GRUMMAN, FL	NOV-09	NOV-10		
AMNS	1	2.822	NAVSEA	FEB-09	C/FFP	UNKNOWN	APR-10	SEP-11		
ALMDS	1	7.433	NSWC, PANAMA CITY FL	DEC-08	C/FFP	UNKNOWN	DEC-09	JUN-11		
AN/AQS-20A	3	7.260	NAVSEA	MAY-09	C/FFP	UNKNOWN	JAN-10	NOV-11		
COBRA	1	3.267	NSWC, PANAMA CITY FL	N/A	FFP/OPTION	UNKNOWN	JAN-10	JUL-11		
MCM - SUPPORT CONTAINER (10 PER MP)	10	0.393	NAVSEA	N/A	CP/AF	NORTHROP GRUMMAN, FL	NOV-09	JUN-11		

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE LCS MODULES BLI: 1600				SUBHEAD 11LM	
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
LM006 LCS MISSION MODULES RADIO	2	1.322	TBD	JUN-09	C/FFP	UNKNOWN	DEC-09	SEP-11		
LM003 SUW MISSION PACKAGE GUN MODULE	2	4.904	NSWC, DAH. VA	N/A	WX	VARIOUS	DEC-09	JUN-11		
SUPPORT CONTAINER (10 PER MP)	10	0.389								
SURFACE-TO-SURFACE MISSILE MODULE	1	4.781	VARIOUS	N/A		VARIOUS	DEC-09	SEP-11		
LM008 MPCE	2	0.629	TBD	JUN-08	TBD	UNKNOWN	DEC-09	JUN-11		
LM013 MARITIME SECURITY MODULE	2	2.500	NAVSEA	N/A		VARIOUS	DEC-09	JUN-11		

CLASSIFICATION:		UNCLASSIFIED										
Exhibit P-40, BUDGET ITEM JUSTIFICATION										DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1						P-1 LINE ITEM NOMENCLATURE LSD MIDLIFE SUBHEAD NO. 81ST BLI: 1610						
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)	0.0			0.0	90.3	117.9						
SPARES COST (In Millions)	0.0			0.0	0.6	0.1						
PROGRAM DESCRIPTION/JUSTIFICATION:												
This budget provides funding for the LSD Mid-life Program. The LSD Mid-life Program replaces obsolete/unsupported HM&E systems, and implements Total Operating Cost (TOC) savings upgrades to maintain amphibious warfare capabilities through DECOM (2036). Primary objectives are to maintain or improve readiness, safety, reliability, reduce workload, lower maintenance costs, improve sailor quality of life, and/or sustain the LSD ship class through their notional service life or beyond. The budget purchases and installs various equipments including generators, ships propellers, low pressure air compressors, canned lube oil pumps, A/C Plants, 30 ton deck crane control system, damage and ballast control systems.												
ST001 - LSD MIDLIFE UPGRADES												
The LSD Mid-life Program replaces obsolete/unsupported HM&E systems, and implements Total Operating Cost (TOC) savings upgrades to maintain amphibious warfare capabilities through DECOM (2036). These include items such as Low Pressure Air Compressors (LPAC), Steering Control Systems (SCS), A/C-plants, Generators, Propulsion Efficiency improvement components, and Reverse Osmosis (RO) Desalinators.												
ST5IN - INSTALLATION OF EQUIPMENT												
Funding is for installation of equipment in support of the LSD Mid-life Program.												
STCA1 - LSD MAIN PROPULSION DIESEL ENGINE UPGRADE												
Funding is for procurement and installation of LSD Main Propulsion Diesel Engine Sequential Turbo Chargers.												

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS					Weapon System					DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					ID Code		P-1 LINE ITEM NOMENCLATURE LSD MIDLIFE SUBHEAD NO. 81ST					
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
	<u>EQUIPMENT</u>											
ST001	<u>LSD MIDLIFE UPGRADES</u>											
	PROPELLER BLADES & PLMU		0.000	0	0.000	0.000	2	1.055	2.110	2	1.075	2.150
	STEERING CONTROL SYSTEM		0.000	0	0.000	0.000	2	1.185	2.370	2	1.118	2.236
	A/C PLANT (LSD 41 - 43)		0.000	0	0.000	0.000	2	1.475	2.950	0	0.000	0.000
	A/C PLANT (LSD 44 - 52)		0.000	0	0.000	0.000	1	0.460	0.460	2	0.470	0.940
	30 TON DECK CRANE CONTROL SYS		0.000	0	0.000	0.000	1	1.690	1.690	1	1.070	1.070
	LOW PRESSURE AIR COMPRESSOR		0.000	0	0.000	0.000	0	0.000	0.000	2	0.782	1.564
	DAMAGE/BALLAST CONTROL SYSTEM		0.000	0	0.000	0.000	0	0.000	0.000	2	2.209	4.418
	BALLAST CONTROL SYSTEM		0.000	0	0.000	0.000	0	0.000	0.000	2	1.378	2.756
	RO & GENERATORS		0.000	0	0.000	0.000	2	10.145	20.290	2	9.950	19.900
	CNTRL SYS TECH REFRESH		0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	3.776
	CANNED LUBE OIL PUMP		0.000	0	0.000	0.000	1	0.603	0.603	2	0.615	1.230
STCA1	LSD MAIN PROPULSION DIESEL ENGINE UPGRADE		0.000	0	0.000	0.000	1	4.800	4.800	0	0.000	0.000
	TOTAL EQUIPMENT		0.000			0.000			35.273			40.040
	<u>INSTALLATION</u>											
ST5IN	INSTALL OF EQUIPMENT		0.000		0.000	0.000	0	0.000	55.068	0	0.000	77.816
	TOTAL INSTALLATION		0.000		0.000	0.000			55.068			77.816
	TOTAL		0.000			0.000			90.341			117.856
Comment: Remarks: FY08 Procurement and Installation for LSD Midlife is funded in OPN 0981.												

CLASSIFICATION:		UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE LSD MIDLIFE BLIN: 1610				SUBHEAD 81ST		
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											
ST001 LSD MIDLIFE UPGRADES											
PROPELLER BLADES & PLMU	2	1.055	NSWC, PHILA		FP (OPT)	ROLLS ROYCE NAVAL MARINE	NOV-08	DEC-09			
STEERING CONTROL SYSTEM	2	1.185	NSWC, PHILA		FP (OPT)	HENSCHEL	FEB-09	JAN-10			
A/C PLANT (LSD 41 - 43)	2	1.475	NSWC, PHILA		FP (OPT)	YORK MARINE	NOV-08	MAR-09			
A/C PLANT (LSD 44 - 52)	1	0.460	NSWC, PHILA		FP (OPT)	YORK MARINE	SEP-09	MAY-10			
30 TON DECK CRANE CONTROL SYS	1	1.690	NSWC, PHILA		FP (OPT)	ROCKWELL AUTOMATION	JUN-09	MAR-10			
RO & GENERATORS	2	10.145	NSWC, PHILA		FP (OPT)	AQUA-CHEM & KATO	JAN-09	DEC-09			
CANNED LUBE OIL PUMP	1	0.603	NSWC, PHILA		FP (OPT)	IMO PUMPS	NOV-08	JUN-09			
STCA1											
LSD MAIN PROPULSION DIESEL ENGINE UPGRADE	1	4.800	NSWC, PHILA		FP (OPT)	Fairbanks Morse Engine	Jul-09	Aug-09			
FY 2010											
ST001 LSD MIDLIFE UPGRADES											
PROPELLER BLADES & PLMU	2	1.075	NSWC, PHILA		FP (OPT)	ROLLS ROYCE NAVAL MARINE	NOV-09	DEC-10			
STEERING CONTROL SYSTEM	2	1.118	NSWC, PHILA		FP (OPT)	HENSCHEL	NOV-09	DEC-10			
A/C PLANT (LSD 44 - 52)	2	0.470	NSWC, PHILA		FP (OPT)	YORK MARINE	FEB-10	OCT-10			
30 TON DECK CRANE CONTROL SYS	1	1.070	NSWC, PHILA		FP (OPT)	ROCKWELL AUTOMATION	JUN-10	JUN-11			
LOW PRESSURE AIR COMPRESSOR	2	0.782	NSWC, PHILA		FP (OPT)	RIX	OCT-09	NOV-10			
DAMAGE/BALLAST CONTROL SYSTEM	2	2.209	NSWC, PHILA		FP (OPT)	TANO CORP	DEC-09	JUL-10			
BALLAST CONTROL SYSTEM	2	1.378	NSWC, PHILA		FP (OPT)	TANO CORP	FEB-10	JUL-10			
RO & GENERATORS	2	9.950	NSWC, PHILA		FP (OPT)	AQUA-CHEM & KATO	NOV-09	OCT-10			
CANNED LUBE OIL PUMP	2	0.615	NSWC, PHILA		FP (OPT)	IMO PUMPS	NOV-09	JUN-10			

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED ST001 LSD MIDLIFE UPGRADES 30 TON DECK CRANE CONTROL SYS	TYPE MODIFICATION:	MODIFICATION TITLE: LSD MIDLIFE
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DESCRIPTION/JUSTIFICATION:

This Ship Change replaces the control system for the 30 Ton Crane with a modern, electronic, computerized control system. The existing 30 Ton Crane control system was designed in the late 1970s and is no longer logistically supported. Maintenance costs continue to be high due to the difficulty in obtaining repair parts and frequent failure of components. In addition, mission capability has been frequently degraded because the Deck Crane is required to support USMC amphibious assault landings and boat ops. New 30 Ton Crane Controls are expected to reduce Total Ownership Costs of the Crane. A 5 year payback period is expected.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT					1	1.7	1	1.1										2	2.8
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST					AP	0.3	1	2.2										1	2.5
<u>TOTAL PROCUREMENT</u>																			
						2.0		3.3											5.3

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED ST001 LSD MIDLIFE UPGRADES A/C PLANT (LSD 41 - 43)	TYPE MODIFICATION:	MODIFICATION TITLE: LSD MIDLIFE
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DESCRIPTION/JUSTIFICATION:

This Ship Change installs an additional MIL-Spec 250 Ton Air-Conditioning (A/C) Plant installed in a new auxiliary machinery room. Increased heat loads from additional/new equipment and increased chilled-water requirements from C4I upgrades have surpassed the A/C systems ability to meet HVAC Design Criteria for air conditioning and chilled-water. LSD 41-43 have less existing A/C plant capacity and therefore require a 250 Ton plant vs. a 130 Ton plant in LSD 44 - 52.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	<u>FINANCIAL PLAN(IN MILLIONS)</u>																		
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT					2	3.0												2	3.0
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST					1	2.8	1	3.5										2	6.3
<u>TOTAL PROCUREMENT</u>						5.8		3.5											9.3

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED ST001 LSD MIDLIFE UPGRADES A/C PLANT (LSD 44 - 52)	TYPE MODIFICATION:	MODIFICATION TITLE: LSD MIDLIFE
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DESCRIPTION/JUSTIFICATION:

This Ship Change installs an additional ruggedized Coast Guard developed 130 Ton Air-Conditioning (A/C) Plant installed in a new auxiliary machinery room. Increased heat loads from additional/new equipment and increased chilled-water requirements from C4I upgrades have surpassed the A/C systems ability to meet HVAC Design Criteria for air conditioning and chilled-water.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT					1	0.5	2	0.9									3	1.4	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST							1	5.5									1	5.5	
<u>TOTAL PROCUREMENT</u>							0.5	6.4										6.9	

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED ST001 LSD MIDLIFE UPGRADES BALLAST CONTROL SYSTEM	TYPE MODIFICATION:	MODIFICATION TITLE: LSD MIDLIFE
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DESCRIPTION/JUSTIFICATION:
The Ballast Control System would replace the existing Ballast Control Console and will consist of PLC enclosures and multi-functional workstations.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT							2	2.8									2	2.8	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST							1	4.4									1	4.4	
<u>TOTAL PROCUREMENT</u>								7.2											7.2

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: LSD MIDLIFE UPGRADES BALLAST CONTROL SYSTEM
 MODIFICATION TITLE: LSD MIDLIFE

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 6 Months

CONTRACT DATES: FY 2008: FY 2009: FY 2010: FEB-10

DELIVERY DATES: FY 2008: FY 2009: FY 2010: JUL-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																						
FY 2010 EQUIPMENT								1	4.4											1	4.4	

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	
In	0	0	0	0	0	0	0	0	0	0	0	0	1														1
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 ST001 LSD MIDLIFE UPGRADES CANNED LUBE OIL PUMP	TYPE MODIFICATION:	MODIFICATION TITLE: LSD MIDLIFE
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DESCRIPTION/JUSTIFICATION:
 Procures and installs a lube oil pump for the ship service diesel generators.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT					1	0.6	2	1.2									3	1.8	
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST					1	1.5	1	1.2									2	2.7	
<u>TOTAL PROCUREMENT</u>						2.1		2.4										4.5	

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED ST001 LSD MIDLIFE UPGRADES DAMAGE/BALLAST CONTROL SYSTEM	TYPE MODIFICATION:	MODIFICATION TITLE: LSD MIDLIFE
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DESCRIPTION/JUSTIFICATION:
The Damage Control System monitors and controls the Firemain, Ventilation and Aqueous Fire Fighting Foam (AFFF).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT							2	4.4										2	4.4
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST							1	5.2										1	5.2
<u>TOTAL PROCUREMENT</u>								9.6											9.6

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: LSD MIDLIFE UPGRADES DAMAGE/BALLAST CONTROL SYSTEM
 MODIFICATION TITLE: LSD MIDLIFE

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 8 Months

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

DELIVERY DATES: FY 2008: FY 2009: FY 2010: JUL-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																					
FY 2010 EQUIPMENT							1	5.2												1	5.2

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
In	0	0	0	0	0	0	0	0	0	0	0	0	1													1
Out	0	0	0	0	0	0	0	0	0	0	0	0	0													0

Remarks: No FY08 and prior funding.

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED ST001 LSD MIDLIFE UPGRADES LOW PRESSURE AIR COMPRESSOR	TYPE MODIFICATION:	MODIFICATION TITLE: LSD MIDLIFE
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DESCRIPTION/JUSTIFICATION:

This Ship Change replaces the Low-Pressure Air Compressors (LPAC) with modern, oil-free compressors. Parts obsolescence is a rapidly growing and more costly problem on these maintenance intensive compressors. This Ship Change provides Return On Investment (ROI) through improved reliability and maintainability of LPACs and reduced maintenance by elimination of oil contamination of pneumatic controls components (new compressors are oil-free). In addition, the new compressors will provide significant readiness improvement through increased reliability of Vital, low-pressure air supply to Vital combat systems and the main propulsion controls.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT							2	1.6										2	1.6
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST						2	2.9	1	2.1									3	5.0
<u>TOTAL PROCUREMENT</u>							2.9		3.7										6.6

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED ST001 LSD MIDLIFE UPGRADES PROPELLER BLADES & PLMU	TYPE MODIFICATION:	MODIFICATION TITLE: LSD MIDLIFE
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DESCRIPTION/JUSTIFICATION:

This SHIPALT replaces the existing Propeller Blades with higher efficiency blades and installs Propulsion Load Management Units (PLMU) that result in fuel savings and engine maintenance reduction as well as operational benefits. The prototype for this SHIPALT was installed and proven aboard the LSD 44 under the DOD sponsored Commercial Operations and Support Savings Initiative (COSSI). Return On Investment (ROI) for the class is estimated at over \$40M (after payback) and operational benefits include increased top speed, quicker response/deceleration, and elimination of existing system performance problems (i.e., low lube-oil pressure trip of main engines). A Congressional Plus-up was provided to help bridge the gap between the COSSI funding and LSD Midlife Program funding. This Plus-up was used to procure/install this SHIPALT in LSD 41, 44 and 52. Only 9 LSDs will require this SHIPALT as part of the Midlife Program.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	<i>FINANCIAL PLAN(IN MILLIONS)</i>																		
<i>RDT&E</i>																			
PROCUREMENT																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT					2	2.1	2	2.1										4	4.2
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST					1	1.8	2	3.1										3	4.9
TOTAL PROCUREMENT						3.9		5.2											9.1

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED ST001 LSD MIDLIFE UPGRADES RO & GENERATORS	TYPE MODIFICATION:	MODIFICATION TITLE: LSD MIDLIFE
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DESCRIPTION/JUSTIFICATION:

This SHIPALT removes the auxiliary boilers and steam system equipment and replaces them with electrical equipment including Reverse Osmosis (RO) desalineators which replace the steam evaporators, and numerous electric heaters and galley equipment replacing their steam counterparts. This SHIPALT provides significant Return On Investment (ROI) through improved reliability and maintainability of electrical ship systems/equipment versus the obsolete and maintenance intensive steam systems/equipment. Also, additional electrical plant loads will improve efficient operation of the currently under-loaded SSDGs and contribute to the ROI through reduced maintenance costs for the SSDGs. These ship systems will also increase ships force safety and eliminate personnel hazards from steam.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
PROCUREMENT																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT					2	20.3	2	19.9										4	40.2
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST					2	40.9	2	45.3										4	86.2
<u>TOTAL PROCUREMENT</u>						61.2		65.2											126.4

CLASSIFICATION: UNCLASSIFIED May 2009

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED: LSD MIDLIFE UPGRADES RO & GENERATORS MODIFICATION TITLE: LSD MIDLIFE

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 5 Months PRODUCTION LEADTIME: 11 Months

CONTRACT DATES: FY 2008: FY 2009: JAN-09 FY 2010: NOV-09

DELIVERY DATES: FY 2008: FY 2009: DEC-09 FY 2010: OCT-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					2	27.3														2	27.3
FY 2009 EQUIPMENT					AP	13.6	2	31.7												2	45.3
FY 2010 EQUIPMENT							AP	13.6													13.6

INSTALLATION SCHEDULE

	FY 2007 & Prior	FY 2008				FY 2009				FY 2010				FY 2011				TOTAL								
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4									
In	0	0	0	0	0	1	1	0	0	0	1	0	1													4
Out	0	0	0	0	0	0	1	0	1	0	0	0	0													2

Remarks: 3 systems procured in OPN 0981 and 1 system installed in OPN 0981.

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED ST001 LSD MIDLIFE UPGRADES STEERING CONTROL SYSTEM	TYPE MODIFICATION:	MODIFICATION TITLE: LSD MIDLIFE
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DESCRIPTION/JUSTIFICATION:
 This SHIPALT replaces the analog Helm and Lee Helm Steering Consoles and equipment with an electronic, computerized Steering Control System (SCS) that integrates various navigation parameters, such as location (latitude, longitude) from GPS as well as pitch, roll, speed, heading, and wind. SCS will be designed to integrate with ECDOS-N digital nautical charts. The existing Bridge control system was designed in the late 1970s and is near the end of it's useful service life. Parts obsolescence is a rapidly growing and more costly problem on this maintenance intensive control system. The IBS also provides significantly enhanced operational and monitoring capabilities as well as real-time Navigation data . This system will reduce workload, provide significant readiness improvement, improve safety and provide cost avoidance.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2008		FY 2009		FY 2010										TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																			
<u>RDT&E</u>																			
<u>PROCUREMENT</u>																			
MODIFICATION KITS																			
MODIFICATION KITS - UNIT COST																			
MODIFICATION NONRECURRING																			
EQUIPMENT					2	2.4	2	2.2										4	4.6
EQUIPMENT NONRECURRING																			
ENGINEERING CHANGE ORDERS																			
DATA																			
TRAINING EQUIPMENT																			
SUPPORT EQUIPMENT																			
OTHER																			
OTHER																			
OTHER																			
INTERIM CONTRACTOR SUPPORT																			
INSTALL COST					2	4.8	2	5.3										4	10.1
<u>TOTAL PROCUREMENT</u>						7.2		7.5											14.7

