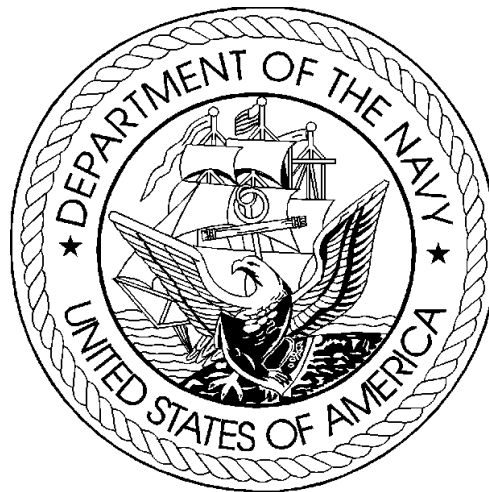


DEPARTMENT OF THE NAVY  
FISCAL YEAR (FY) 2012  
BUDGET ESTIMATES



JUSTIFICATION OF ESTIMATES  
FEBRUARY 2011

OTHER PROCUREMENT, NAVY  
BUDGET ACTIVITY 1

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## Department of Defense Appropriations Act, 2012

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### **Other Procurement, Navy**

For procurement, production, and modernization of support equipment and materials not otherwise provided for, Navy ordnance (except ordnance for new aircraft, new ships, and ships authorized for conversion); expansion of public and private plants, including the land necessary therefore, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway, \$6,285,451,000, to remain available for obligation until September 30, 2014.

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## UNCLASSIFIED

Department of the Navy  
 FY 2012 President's Budget  
 Exhibit P-1 FY 2012 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

31 Jan 2011

## Appropriation: Other Procurement, Navy

Budget Activity -----	FY 2010 (Base & OCO) -----	FY 2011 Base Request with CR Adj* -----	FY 2011 OCO Request with CR Adj* -----	FY 2011 Total Request with CR Adj* -----
01. Ships Support Equipment	1,749,298	2,329,195	30,706	2,359,901
02. Communications & Electronics Equip	1,990,672	1,931,591	28,880	1,960,471
03. Aviation Support Equipment	422,245	345,411	26,024	371,435
04. Ordnance Support Equipment	709,031	776,123	132,386	908,509
05. Civil Engineering Support Equip	279,665	97,016	174,946	271,962
06. Supply Support Equipment	107,857	95,023	33,659	128,682
07. Personnel & Command Support Equip	432,268	659,943	49,192	709,135
08. Spares and Repair Parts	235,845	215,906	4,942	220,848
20. Undistributed		-1,110,601	-210,858	-1,321,459
Total Other Procurement, Navy	5,926,881	5,339,607	269,877	5,609,484

P-1P: FY 2012 President's Budget (With FY 2011 CR Adjustments), as of January 31, 2011 at 13:53:38

\* Reflects the FY 2011 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.

## UNCLASSIFIED

Department of the Navy  
 FY 2012 President's Budget  
 Exhibit P-1 FY 2012 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

31 Jan 2011

## Appropriation: Other Procurement, Navy

Budget Activity -----	FY 2011 Annualized CR Base** -----	FY 2011 Annualized CR OCO** -----	FY 2011 Annualized CR Total** -----
01. Ships Support Equipment	1,928,151	17,238	1,945,389
02. Communications & Electronics Equip	1,599,008	16,212	1,615,220
03. Aviation Support Equipment	285,937	14,609	300,546
04. Ordnance Support Equipment	642,488	74,319	716,807
05. Civil Engineering Support Equip	80,313	98,212	178,525
06. Supply Support Equipment	78,663	18,896	97,559
07. Personnel & Command Support Equip	546,315	27,616	573,931
08. Spares and Repair Parts	178,732	2,775	181,507
20. Undistributed			
Total Other Procurement, Navy	5,339,607	269,877	5,609,484

P-1P: FY 2012 President's Budget (With FY 2011 CR Adjustments), as of January 31, 2011 at 13:53:38

\*\* Adjusts each budget line included in the FY 2011 President's Budget request proportionally to match the Annualized Continuing Resolution funding level for each appropriation. Quantities - TBD

## UNCLASSIFIED

Department of the Navy  
 FY 2012 President's Budget  
 Exhibit P-1 FY 2012 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

31 Jan 2011

## Appropriation: Other Procurement, Navy

Budget Activity -----	FY 2012 Base -----	FY 2012 OCO -----	FY 2012 Total -----
01. Ships Support Equipment	2,408,295	13,729	2,422,024
02. Communications & Electronics Equip	2,062,911	11,232	2,074,143
03. Aviation Support Equipment	352,486	90,026	442,512
04. Ordnance Support Equipment	668,577	23,200	691,777
05. Civil Engineering Support Equip	82,419	20,592	103,011
06. Supply Support Equipment	77,735	3,644	81,379
07. Personnel & Command Support Equip	424,644	119,079	543,723
08. Spares and Repair Parts	208,384	473	208,857
20. Undistributed			
Total Other Procurement, Navy	6,285,451	281,975	6,567,426

## UNCLASSIFIED

Department of the Navy  
 FY 2012 President's Budget  
 Exhibit P-1 FY 2012 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

31 Jan 2011

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2010 (Base & OCO)		FY 2011 Base Request with CR Adj*		FY 2011 OCO Request with CR Adj*		FY 2011 Total Request with CR Adj*		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Ships Support Equipment											
-----											
Ship Propulsion Equipment											
1	LM-2500 Gas Turbine	A		7,989		12,137				12,137	U
2	Allison 501k Gas Turbine	A		9,134		14,923				14,923	U
Navigation Equipment											
3	Other Navigation Equipment	A		38,580		23,167				23,167	U
Periscopes											
4	Sub Periscopes & Imaging Equip	A		78,973		85,619				85,619	U
Other Shipboard Equipment											
5	DDG Mod	A		159,296		296,691				296,691	U
6	Firefighting Equipment	A		11,388		11,974				11,974	U
7	Command And Control Switchboard	A		4,369		3,962				3,962	U
8	Pollution Control Equipment	B		24,758		25,614				25,614	U
9	Submarine Support Equipment	A		16,815		7,730				7,730	U
10	Virginia Class Support Equipment	A		99,984		132,039				132,039	U
11	Submarine Batteries	A		44,943		44,057				44,057	U
12	Strategic Platform Support Equip	A		18,934		22,811				22,811	U
13	DSSP Equipment	A		9,791		3,869				3,869	U
14	CG Modernization	A		316,711		356,958				356,958	U

P-1P: FY 2012 President's Budget (With FY 2011 CR Adjustments), as of January 31, 2011 at 13:53:38

\* Reflects the FY 2011 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.

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Department of the Navy  
 FY 2012 President's Budget  
 Exhibit P-1 FY 2012 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

31 Jan 2011

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2011 Annualized CR Base**		FY 2011 Annualized CR OCO**		FY 2011 Annualized CR Total**		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Ships Support Equipment									
Ship Propulsion Equipment									
1	LM-2500 Gas Turbine	A		10,047			10,047		U
2	Allison 501k Gas Turbine	A		12,354			12,354		U
Navigation Equipment									
3	Other Navigation Equipment	A		19,178			19,178		U
Periscopes									
4	Sub Periscopes & Imaging Equip	A		70,877			70,877		U
Other Shipboard Equipment									
5	DDG Mod	A		245,607			245,607		U
6	Firefighting Equipment	A		9,912			9,912		U
7	Command And Control Switchboard	A		3,280			3,280		U
8	Pollution Control Equipment	B		21,204			21,204		U
9	Submarine Support Equipment	A		6,399			6,399		U
10	Virginia Class Support Equipment	A		109,304			109,304		U
11	Submarine Batteries	A		36,471			36,471		U
12	Strategic Platform Support Equip	A		18,883			18,883		U
13	DSSP Equipment	A		3,203			3,203		U
14	CG Modernization	A		295,497			295,497		U

P-1P: FY 2012 President's Budget (With FY 2011 CR Adjustments), as of January 31, 2011 at 13:53:38

\*\* Adjusts each budget line included in the FY 2011 President's Budget request proportionally to match the Annualized Continuing Resolution funding level for each appropriation. Quantities - TBD

## UNCLASSIFIED

Department of the Navy  
 FY 2012 President's Budget  
 Exhibit P-1 FY 2012 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

31 Jan 2011

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2012 Base Quantity	FY 2012 Base Cost	FY 2012 OCO Quantity	FY 2012 OCO Cost	FY 2012 Total Quantity	FY 2012 Total Cost	Se c
Budget Activity 01: Ships Support Equipment									
Ship Propulsion Equipment									
1	LM-2500 Gas Turbine	A		13,794				13,794	U
2	Allison 501k Gas Turbine	A		8,643				8,643	U
Navigation Equipment									
3	Other Navigation Equipment	A		22,982				22,982	U
Periscopes									
4	Sub Periscopes & Imaging Equip	A		60,860				60,860	U
Other Shipboard Equipment									
5	DDG Mod	A		119,522				119,522	U
6	Firefighting Equipment	A		17,637				17,637	U
7	Command And Control Switchboard	A		3,049				3,049	U
8	Pollution Control Equipment	B		22,266				22,266	U
9	Submarine Support Equipment	A		15,892				15,892	U
10	Virginia Class Support Equipment	A		100,693				100,693	U
11	Submarine Batteries	A		42,296				42,296	U
12	Strategic Platform Support Equip	A		25,228				25,228	U
13	DSSP Equipment	A		2,600				2,600	U
14	CG Modernization	A		590,349				590,349	U

P-1P: FY 2012 President's Budget (With FY 2011 CR Adjustments), as of January 31, 2011 at 13:53:38

## UNCLASSIFIED

Department of the Navy  
 FY 2012 President's Budget  
 Exhibit P-1 FY 2012 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

31 Jan 2011

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2010 (Base & OCO)		FY 2011 Base Request with CR Adj*		FY 2011 OCO Request with CR Adj*		FY 2011 Total Request with CR Adj*		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
15	LCAC	A		4,900		9,142				9,142	U
16	Underwater Eod Programs			31,213		15,908				15,908	U
17	Items Less Than \$5 Million	A		123,635		126,842				126,842	U
18	Chemical Warfare Detectors	A		8,872		7,470				7,470	U
19	Submarine Life Support System	A		14,676		13,016				13,016	U
	Reactor Plant Equipment										
20	Reactor Power Units	A				438,503				438,503	U
21	Reactor Components	A		261,545		266,469				266,469	U
	Ocean Engineering										
22	Diving And Salvage Equipment	A		4,908		10,227				10,227	U
	Small Boats										
23	Standard Boats	A		58,821		27,725		30,706		58,431	U
	Training Equipment										
24	Other Ships Training Equipment	A		13,465		16,094				16,094	U
	Production Facilities Equipment										
25	Operating Forces Ipe	A		51,214		49,856				49,856	U
	Other Ship Support										
26	Nuclear Alterations	A		136,261		116,829				116,829	U
27	LCS Modules	A		80,387		82,951				82,951	U

P-1P: FY 2012 President's Budget (With FY 2011 CR Adjustments), as of January 31, 2011 at 13:53:38

\* Reflects the FY 2011 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.

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## UNCLASSIFIED

Department of the Navy  
 FY 2012 President's Budget  
 Exhibit P-1 FY 2012 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

31 Jan 2011

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2011 Annualized CR Base**		FY 2011 Annualized CR OCO**		FY 2011 Annualized CR Total**		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
15	LCAC	A		7,568			7,568		U
16	Underwater Eod Programs			13,169			13,169		U
17	Items Less Than \$5 Million	A		105,002			105,002		U
18	Chemical Warfare Detectors	A		6,184			6,184		U
19	Submarine Life Support System	A		10,775			10,775		U
	Reactor Plant Equipment								
20	Reactor Power Units	A		363,001			363,001		U
21	Reactor Components	A		220,588			220,588		U
	Ocean Engineering								
22	Diving And Salvage Equipment	A		8,466			8,466		U
	Small Boats								
23	Standard Boats	A		22,951		17,238	40,189		U
	Training Equipment								
24	Other Ships Training Equipment	A		13,323			13,323		U
	Production Facilities Equipment								
25	Operating Forces Ipe	A		41,272			41,272		U
	Other Ship Support								
26	Nuclear Alterations	A		96,713			96,713		U
27	LCS Modules	A		68,668			68,668		U

P-1P: FY 2012 President's Budget (With FY 2011 CR Adjustments), as of January 31, 2011 at 13:53:38

\*\* Adjusts each budget line included in the FY 2011 President's Budget request proportionally to match the Annualized Continuing Resolution funding level for each appropriation. Quantities - TBD

## UNCLASSIFIED

Department of the Navy  
 FY 2012 President's Budget  
 Exhibit P-1 FY 2012 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

31 Jan 2011

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2012 Base		FY 2012 OCO		FY 2012 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
15	LCAC	A							U
16	Underwater Eod Programs			18,499				18,499	U
17	Items Less Than \$5 Million	A		113,809				113,809	U
18	Chemical Warfare Detectors	A		5,508				5,508	U
19	Submarine Life Support System	A		13,397				13,397	U
	Reactor Plant Equipment								
20	Reactor Power Units	A		436,838				436,838	U
21	Reactor Components	A		271,600				271,600	U
	Ocean Engineering								
22	Diving And Salvage Equipment	A		11,244				11,244	U
	Small Boats								
23	Standard Boats	A		39,793		13,729		53,522	U
	Training Equipment								
24	Other Ships Training Equipment	A		29,913				29,913	U
	Production Facilities Equipment								
25	Operating Forces Ipe	A		54,642				54,642	U
	Other Ship Support								
26	Nuclear Alterations	A		144,175				144,175	U
27	LCS Modules	A		79,583				79,583	U

P-1P: FY 2012 President's Budget (With FY 2011 CR Adjustments), as of January 31, 2011 at 13:53:38

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UNCLASSIFIED

Department of the Navy  
FY 2012 President's Budget  
Exhibit P-1 FY 2012 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

31 Jan 2011

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2012 Base Quantity	FY 2012 Base Cost	FY 2012 OCO Quantity	FY 2012 OCO Cost	FY 2012 Total Quantity	FY 2012 Total Cost	S e c
Logistic Support									
28	LSD Midlife		143,483				143,483		U
Total Ships Support Equipment			2,408,295		13,729		2,422,024		

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<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>												
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION</b>											DATE February 2011			
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>						P-1 LINE ITEM NOMENCLATURE LM-2500 GAS TURBINE <b>SUBHEAD NO. 81GA BLI: 0110</b>								
Program Element for Code B Items						Other Related Program Elements								
	Prior Years	ID Code		FY 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total
Quantity	0			0	0	0	0	0	0	0	0	0	0	0
COST ( In Millions)	89.5	A		8.0	12.1	13.8	0.0	13.8	11.3	14.9	20.7	25.0	44.2	239.5
SPARES COST ( In Millions)	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
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>														
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.														
The LM2500 is composed of two major sub-assemblies: the gas generator and power turbine sections.														
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:														
<b>GA009 - MODIFICATION KIT PROGRAM</b>														
a. Provide support for the LM2500 mod kit program which includes the procurement, packaging, installation and shipping of modification kits. 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.														
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.														
<b>GA010 - GAS GENERATOR IN CONTAINER</b>														
The attainment of LM2500 spare single shank gas generator inventory level of 29 is considered the program's minimum requirement based upon the current total population of 404 engines along with the requirement to forward deploy some inventory assets to support the fleet overseas. This inventory level is based upon 35 years of experience with the LM2500 Engine and ensures 90% probability for spare asset availability. 22 complete gas generator units have been procured through FY-10. One complete gas generator unit will be procured each year from FY-11 thru FY-16.														
<b>GA012 - CONTROL SYSTEM MODIFICATIONS</b>														
The engine control system consists of sensors, data acquisition units, processors and operator consoles. Peripheral devices include bell and data loggers, printers, data readers, mass storage devices and data recorders. These end items are comprised of printer circuit boards, meters, displays, switches and power supplies. Inventory objectives not required. Unit costs vary per														

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>			<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>		<b>P-1 LINE ITEM NOMENCLATURE</b> LM-2500 GAS TURBINE <b>SUBHEAD NO. 81GA BLI: 0110</b>	
<p>modification kit. Obsolescence is increasingly being an item that needs to be managed.</p> <p><b>GA014 - SPECIAL SUPPORT EQUIPMENT (SSE)</b> 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><b>GA015 - DIGITAL FUEL CONTROL (DFC)</b> Four ship sets were procured in FY-10. Funding will procure five DDG-51/CG-47 ship sets in both FY-11 and FY-12 to replace existing on engine fuel controls with off engine digital fuel controls. This addresses an obsolescence, maintainability, and reliability issue. Note a shipset is composed of 4 individual units (1 for each LM2500) and are bought and installed as a shipset.</p> <p><b>GA016 - MANAGEMENT ENERGY INITIATIVES</b> Funding will support specific Marine Gas Turbine energy initiatives and will include Online Waterwash in support of SECNAV's Green Fleet in 2012. At NAVSEAs request, Resource Sponsor is re-allocating \$100K in FY11 to procure the first shipset for Online Waterwash.</p> <p><b>GA830 - PRODUCTION ENGINEERING</b> 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>			

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>										
<b>EXHIBIT P-5 COST ANALYSIS</b>						Weapon System					DATE February 2011	
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>						ID Code <b>A</b>		P-1 LINE ITEM NOMENCLATURE <b>LM-2500 GAS TURBINE</b> <b>SUBHEAD NO. 81GA</b>				
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<u><b>EQUIPMENT</b></u>											
<b>GA009</b>	MODIFICATION PROGRAM	A	24.592	0	0.000	2.439	0	0.000	0.432	0	0.000	0.859
<b>GA010</b>	GAS GENERATOR	A	27.997	0	0.000	0.000	1	3.750	3.750	1	3.850	3.850
<b>GA012</b>	ENGINEERING SYSTEM MOD	A	12.590	0	0.000	0.250	0	0.000	0.600	0	0.000	0.800
<b>GA014</b>	SPECIAL SUPPORT EQUIPMENT	A	1.633	0	0.000	0.050	0	0.000	0.085	0	0.000	0.085
<b>GA015</b>	<u>LM2500 GAS TURBINE</u> DIGITAL FUEL CONTROL	A	19.290	4	1.300	5.200	5	1.420	7.100	5	1.500	7.500
<b>GA016</b>	MANAGEMENT ENERGY INITIATIVES		0.000	0	0.000	0.000	0	0.000	0.100	4	0.150	0.600
<b>GA830</b>	PRODUCTION ENGINEERING	A	3.433	0	0.000	0.050	0	0.000	0.070	0	0.000	0.100
	<b>TOTAL EQUIPMENT</b>		<b>89.535</b>			<b>7.989</b>			<b>12.137</b>			<b>13.794</b>
	<b>TOTAL</b>		<b>89.535</b>			<b>7.989</b>			<b>12.137</b>			<b>13.794</b>
<b>Comment:</b> In FY10, 4 DFC Kits were purchased in order to modify existing spare engines to a DFC configured DFC spare. Additional kits will be procured according to the ratio of non DFC engines in the Fleet to DFC configure engines in the Fleet. Wiring harnesses have been identified as a reliability improvement and will be included in future upgrades.												

CLASSIFICATION:				UNCLASSIFIED							
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE LM-2500 GAS TURBINE BLIN: 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	
<b>FY 2010</b>											
<b>GA015 LM2500 GAS TURBINE</b> DIGITAL FUEL CONTROL	4	1,300	NSWC PHILA, PA		WR	GE CINCINNATI, OHIO	MAR-10	JAN-11	YES		
<b>FY 2011</b>											
<b>GA010</b> GAS GENERATOR	1	3,750	NSWC PHILA, PA		WR	GE CINCINNATI, OHIO	APR-11	DEC-11	YES		
<b>GA015 LM2500 GAS TURBINE</b> DIGITAL FUEL CONTROL	5	1,420	NSWC PHILA, PA		WR	GE CINCINNATI, OHIO	APR-11	DEC-11	YES		
<b>FY 2012</b>											
<b>GA010</b> GAS GENERATOR	1	3,850	NSWC PHILA, PA		WR	GE CINCINNATI, OHIO	APR-12	DEC-12	YES		
<b>GA015 LM2500 GAS TURBINE</b> DIGITAL FUEL CONTROL	5	1,500	NSWC PHILA, PA		WR	GE CINCINNATI, OHIO	APR-12	DEC-12	YES		
<b>GA016</b> MANAGEMENT ENERGY INITIATIVES	4	0,150	NSWC PHILA, PA		WR	GE CINCINNATI ,OHIO	APR-12	DEC-12	YES		

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>												
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION</b>											<b>DATE</b> February 2011			
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>						<b>P-1 LINE ITEM NOMENCLATURE</b> ALLISON 501K GAS TURBINE <b>SUBHEAD NO. 81GF BLI: 0120</b>								
Program Element for Code B Items						Other Related Program Elements								
	Prior Years	ID Code		FY 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total
Quantity	0			0	0	0	0	0	0	0	0	0	0	0
COST ( In Millions)	153.2	A		9.1	14.9	8.6	0.0	8.6	8.0	33.0	55.0	56.1	1.4	339.3
SPARES COST ( In Millions)	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
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>														
The Rolls Royce (Allison) 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.														
<b>GF001 - STOCK ROTATING SPARES</b>														
The Stock Rotating Spares program provides for the replacement of an engine requiring depot repair. A spare MT-30 engine will be procured for the Littoral Combat Ship (LCS) program. Spare 250-K34 SSGTG starter engines will be procured for the DDG 51 program.														
<b>GF007 - MODIFICATION PROGRAM</b>														
Provides support for the Rolls Royce modification kit program to include the procurement, packaging, shipping and installation. 501-K Gas Turbines always rank high as a 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.														
<b>GF009 - SPECIAL SUPPORT EQUIPMENT (SSE)</b>														
Procurement of Gas Turbine SSE is required to provide increased Shore 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.														
<b>GF015 - FULL AUTHORITY DIGITAL CONTROL (FADC)</b>														
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.														

<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> ALLISON 501K GAS TURBINE <b>SUBHEAD NO. 81GF BLI: 0120</b>	
<p><b>GF016 - ELECTRIC STARTER</b> Gas Turbines today are started with pneumatic (air) starters. These are maintenance intensive and complex. This starter will be common on both the Rolls Royce 501 engine, and the LM2500.</p> <p><b>GF018 - HOT SECTION REPLACEMENT</b> 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 9 sets in FY11 and 17 sets in FY12.</p> <p><b>GF020 - MANAGEMENT ENERGY INITIATIVES</b> Funding will support specific Marine Gas Turbine energy initiatives and will include 501K improvements in support of SECNAV's Green Fleet in 2012. At NAVSEAs request, Resource Sponsor is allocating \$1,100K in FY11 to procure three (3) mod kit upgrades which includes subparts compressor cases and compressor disks.</p> <p><b>GF830 - PRODUCTION ENGINEERING</b> 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>		

<b>CLASSIFICATION:</b>			<b>UNCLASSIFIED</b>									
<b>EXHIBIT P-5 COST ANALYSIS</b>				Weapon System						DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>				ID Code <b>A</b>		P-1 LINE ITEM NOMENCLATURE <b>ALLISON 501K GAS TURBINE</b> <b>SUBHEAD NO. 81GF</b>						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<u><b>EQUIPMENT</b></u>											
<b>GF001</b>	501-K34	A	17.053	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
<b>GF001</b>	250-KS4	A	1.785	1	0.300	0.300	2	0.300	0.600	1	0.310	0.310
<b>GF001</b>	MT-30		4.326	0	0.000	0.000	1	9.423	9.423	0	0.000	0.000
<b>GF007</b>	MODIFICATION PROGRAM	A	83.477	0	0.000	2.474	0	0.000	0.680	0	0.000	0.863
<b>GF009</b>	SPECIAL SUPPORT EQUIPMENT (SSE)	A	4.332	0	0.000	0.310	0	0.000	0.320	0	0.000	0.330
<b>GF015</b>	FULL AUTHORITY DIGITAL CONTROL	A	33.678	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
<b>GF016</b>	ELECTRIC STARTER	A	2.260	2	0.295	0.590	2	0.300	0.600	2	0.305	0.610
<b>GF018</b>	501K-34 HOT SECTION REPLACEMENT	A	4.000	25	0.210	5.250	9	0.220	1.980	17	0.230	3.910
<b>GF020</b>	MANAGEMENT ENERGY INITIATIVES		0.000	0	0.000	0.000	3	0.367	1.100	6	0.400	2.400
<b>GF830</b>	PRODUCTION ENGINEERING	A	2.275	0	0.000	0.210	0	0.000	0.220	0	0.000	0.220
	<b>TOTAL EQUIPMENT</b>		<b>153.186</b>			<b>9.134</b>			<b>14.923</b>			<b>8.643</b>
<b>TOTAL</b>			<b>153.186</b>			<b>9.134</b>			<b>14.923</b>			<b>8.643</b>

CLASSIFICATION:				UNCLASSIFIED							
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE February 2011		
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	
<b>FY 2010</b>											
<b>GF001</b> 250-KS4	1	0.300	NSWC, PHILA		WR	ROLLS ROYCE ALLISON, WALPOLE, MA	MAR-10	SEP-10	YES		
<b>GF016</b> ELECTRIC STARTER	2	0.295	NSWC, PHILA		WR	HAMILTON SUNSTRAND, WINDSOR LOCKS, CT	MAR-10	SEP-10	YES		
<b>GF018</b> 501K-34 HOT SECTION REPLACEMENT	25	0.210	NSWC, PHILA		WR	ROLLS ROYCE ALLISON, WALPOLE, MA	MAR-10	SEP-10	YES		
<b>FY 2011</b>											
<b>GF001</b> MT-30	1	9.423	NSWC, PHILA		WR	ROLLS ROYCE ALLISON, WALPOLE, MA	APR-11	DEC-11	YES		
<b>GF016</b> 250-KS4	2	0.300	NSWC, PHILA		WR	ROLLS ROYCE ALLISON, WALPOLE, MA	APR-11	DEC-12	YES		
<b>GF016</b> ELECTRIC STARTER	2	0.300	NSWC, PHILA		WR	HAMILTON SUNSTRAND, WINDSOR LOCKS, CT	APR-11	DEC-11	YES		
<b>GF018</b> 501K-34 HOT SECTION REPLACEMENT	9	0.220	NSWC, PHILA		WR	ROLLS ROYCE ALLISON, WALPOLE, MA	APR-11	DEC-11	YES		
<b>GF020</b> MANAGEMENT ENERGY INITIATIVES	3	0.367	NSWC, PHILA		WR	ROLLS ROYCE ALLISON, WALPOLE, MA	APR-11	DEC-11			
<b>FY 2012</b>											
<b>GF001</b> 250-KS4	1	0.310	NSWC, PHILA		WR	ROLLS ROYCE ALLISON, WALPOLE, MA	APR-12	DEC-12	YES		
<b>GF016</b> ELECTRIC STARTER	2	0.305	NSWC, PHILA		WR	HAMILTON SUNSTRAND, WINDSOR LOCKS, CT	APR-12	DEC-12	YES		
<b>GF018</b> 501K-34 HOT SECTION REPLACEMENT	17	0.230	NSWC, PHILA		WR	ROLLS ROYCE ALLISON, WALPOLE, MA	APR-12	DEC-12	YES		
<b>GF020</b> MANAGEMENT ENERGY INITIATIVES	6	0.400	NSWC, PHILA		WR	ROLLS ROYCE ALLISON, WALPOLE, MA	APR-12	DEC-12	YES		



<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>												
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION</b>											<b>DATE</b> February 2011			
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>						<b>P-1 LINE ITEM NOMENCLATURE</b> <b>OTHER NAVIGATION EQUIPMENT</b> <b>SUBHEAD NO. A1GW BLI: 0670</b>								
Program Element for Code B Items						Other Related Program Elements								
	Prior Years	ID Code		FY 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total
Quantity	0			0	0	0	0	0	0	0	0	0	0	0
COST ( In Millions)	143.0	0		38.6	23.2	23.0	0.0	23.0	24.2	29.4	28.9	30.4	12.8	353.5
SPARES COST ( In Millions)	1.6			0.3	0.2	0.5	0.0	0.5	0.3	0.1	0.0	0.0	0.0	3.0
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>														
This program provides procurement and improvements of navigation equipment to include Inertial Navigation equipment for Ballistic Missile Defense such as gyrocompasses, 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. These systems provide mission critical navigation data to Ballistic Missile Defense, shipboard, combat, and gun and missile systems.														
<b>GW013: CONVENTIONAL NAVIGATION FIELD CHANGE KITS:</b>														
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 Synchronization Signal Amplifier. These improvements are required to keep Fleet-installed equipment operating to a basic level.														
<b>GW029: INERTIAL NAVIGATION SYSTEMS FIELD CHANGE KITS:</b>														
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), Aircraft Inertial Alignment System (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 support technology refresh to replace parts obsolescence and keep pace with technology. Funds required to perform navigation certification required as prerequisite to TOMAHAWK certification.														
- Field Change #1 to the AN/WSN-7/7A 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 Combat Control System (CCS).														

<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> <b>OTHER NAVIGATION EQUIPMENT</b> <b>SUBHEAD NO. A1GW BLI: 0670</b>	
<p>- Field Change #5 to the AN/WSN-7/7A 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.</p> <p>- Aircraft Inertial Alignment System (AIAS) product improvements to AN/SRC-40, OU-174, TS-3543A due to obsolescence.</p> <p>- Field Change #6 to the AN/WSN-7/7A provides upgraded MX-11681A Inertial Measuring Unit (IMU) for structure-borne noise reduction.</p> <p>- Field Change #7 to the AN/WSN-7/7A provides CDU software version 3.0.0 to include Information Assurance (IA) and the Linux Operating System. (Surface and Submersible Ship Nuclear (SSN) 776/77 only)</p> <p>- Field Change #8 to the AN/WSN-7A provides Naval Tactical Data System (NTDS) Type A for Tactical TOMAHAWK Weapons Control Systems (TTWCS). (Submersible Ship Guided Nuclear (SSGN) Class only)</p> <p>- Field Change #9 to the AN/WSN-7 converts AN/WSN-7(V)2 to AN/WSN-7(V)3. (LHD 1 and 2 only).</p> <p>- Field Change #10 to the AN/WSN-7A provides CDU upgrades to include Information Assurance (IA) and the Linux Operating System. (SSN 688 Class, SSGN, and SSN 21/22)</p> <p>- Field Change #11 to the AN/WSN-7 provides Ethernet cable connection, upgrades software in the CDU to version 2.0.6 to enable Integrated Bridge System (IBS) interface with Ring Laser Gyro Navigator (RLGN) and Global Positioning System (GPS). (AEGIS CG's only)</p> <p>- Field Change #12 to the AN/WSN-7A provides Unit 8, IP-1747 CDU with Windows Program (WINP) Software version 2.0.0, Run Time Program (RTP) version 4/2/0, and Enhanced SABTECH Review Board (ESRB) version 2.2.5. (SSN 23 only)</p> <p>- Field Change #13 to the AN/WSN-7A provides Unit 6, IP-1747 CDU (72213) with IP-1747 CDU (501300). ECDU architecture with dual Global Positioning System Versa Module Eurocard Receiver Card (GVRC) replaces Navigation Data Distribution and Display (ND3) functionality. (SSN 774 Class only)</p> <p>- Field Change #14 to the AN/WSN-7A provides Technical Insertion (TI-06): Adds Vertical Deflection Compensation, BQN-17A Interface, and Health Monitoring.</p> <p>- Field Change #15 to the AN/WSN-7A provides Technical Insertion (TI-08): Replaces ECDU GVRC cards with Selective Availability Anti Spoofing Module (SAASM) Receiver, adds Internet Protocol Version 6 (IPV) compliance, and reliability improvements.</p> <p>- Field Change #16 to the AN/WSN-7A provides Technical Insertion (TI-10): Incorporates Precision Underwater Mapping (PUMA) and Correlation Navigation.</p> <p>- Field Change #17 to the AN/WSN-7A provides Technical Insertion (TI-12): Incorporates ECDU Global Positioning System (GPS) (M-Code).</p> <p>- Field Change #18 to the AN/WSN-7A provides firmware upgrades: Navigation processor Revision AE and Input/Output (I/O) processor Revision AA (SSN &amp; Submersible Ship Guided Nuclear (SSGN) only)</p> <p>- Field Change #19 to the AN/WSN-7A provides power circuitry modifications in AN/WSN-7A(V)1,2 to meet the requirements of Military Standard (MIL-STD)-1399B/300A. (SSN 774 Class only)</p> <p>- Field Change #20 to the AN/WSN-7/7A provides firmware upgrades: Navigation processor Revision AF and I/O processor Revision AB.</p> <p>- 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> <p><b>GW036: NAVIGATION SYSTEM PROCUREMENT - (AN/WSN-7B):</b> 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 Engineering Rough Overhaul (ERO) Restoration Modernization. System peripherals include: CDUs, ECDUs, Synchronization Signal Amplifiers, Built In Test (BIT) Cables and Installation kits. Marine Countermeasures (MCM) ships require quantity (2) AN/WSN-7B per ship.</p> <p><b>GW038: BPS ECDIS-N/VMS FC KITS:</b> These funds are required to provide AN/BPS-15/16 - Voyage Management System (VMS) Field Changes to provide ECDIS-N capability and to support obsolescence replacement.</p>		

<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> <b>OTHER NAVIGATION EQUIPMENT</b> <b>SUBHEAD NO. A1GW BLI: 0670</b>	
<p><b>GW050: SCALABLE ECDIS-N:</b> These funds are required for procurement of Scalable ECDIS-N systems for surface combatants, amphibious ships, and carriers. Carrier configuration is more complex resulting in higher unit cost.</p> <p><b>GW051: SCALABLE ECDIS-N ECP/FIELD CHANGE KITS:</b> These funds are required for the procurement and installation of ECDIS-N ECP/Field Change Kits to support hardware tech refresh, software upgrades to incorporate latest functions and safety enhancements, obsolescence replacement, and for engineering services associated with interfacing systems on multiple platforms.</p> <p><b>GW052: ENHANCED INERTIAL NAVIGATION PERFORMANCE PROGRAM:</b> These funds are required for the procurement of field change kits to enhance inertial navigation system performance.</p> <p><b>GW053: AN/WSN-7 MODERNIZATION:</b> These funds are required for procurement and installation of replacement inertial measuring units as part of modernization of the AN/WSN-7 system to meet increased performance requirements in support of Ballistic Missile Defense.</p> <p><b>GW054: NAVIGATION TRAINING EQUIPMENT</b> Funds are required for the procurement of training equipment multiple Navigation classrooms.</p> <p><b>GW830: PRODUCTION ENGINEERING</b> These funds are required for production engineering for the AN/WSN-7/7A, AN/WSN-7B, CDU, ECDU, 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><b>GWINS: INSTALLATION</b> 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>		

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>										
<b>EXHIBIT P-5 COST ANALYSIS</b>				Weapon System						DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>				ID Code		P-1 LINE ITEM NOMENCLATURE <b>OTHER NAVIGATION EQUIPMENT</b> <b>SUBHEAD NO. A1GW</b>						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010			FY 2011			FY 2012		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<u><b>EQUIPMENT</b></u>											
<b>GW013</b>	CONVENTIONAL NAVIGATION FC KITS		8.086	0	0.000	3.615	0	0.000	2.820	0	0.000	3.945
<b>GW029</b>	CVNS/WSN-7 ECP/FC KITS		7.693	0	0.000	1.481	0	0.000	1.508	0	0.000	1.449
	INERTIAL NAV SYS ECP/FC KITS		14.741	0	0.000	5.847	0	0.000	4.695	0	0.000	5.919
<b>GW036</b>	<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
	AN/WSN-7B PERIPHERALS		0.237	0	0.000	0.495	0	0.000	0.891	0	0.000	0.000
	RING LASER GYROCOMPASS (AN/WSN-7B)		25.050	6	1.044	6.261	0	0.000	0.000	0	0.000	0.000
<b>GW038</b>	BPS ECDIS-N/VMS FC KITS		21.495	0	0.000	3.688	0	0.000	3.453	0	0.000	4.145
<b>GW050</b>	SCALABLE ECDIS-N		11.111	5	0.515	2.575	2	0.290	0.580	3	0.310	0.930
	TRAINING EQUIPMENT		0.000	5	0.300	1.500	0	0.000	0.000	0	0.000	0.000
<b>GW051</b>	SCALABLE ECDIS-N ECP/FC KITS		9.071	0	0.000	2.654	0	0.000	2.025	0	0.000	2.811
<b>GW052</b>	ENHANCED INERTIAL NAV PERFORMANCE		5.831	0	0.000	1.898	0	0.000	2.260	0	0.000	0.000
<b>GW054</b>	NAVIGATION TRAINING EQUIPMENT		0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.600
<b>GW830</b>	PRODUCTION ENGINEERING		7.910	0	0.000	2.421	0	0.000	0.955	0	0.000	1.713
<b>WAXXX</b>	ACQUISITION WORKFORCE FUND-2009		0.158	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	<b>TOTAL EQUIPMENT</b>		<b>112.543</b>			<b>32.435</b>			<b>19.187</b>			<b>21.512</b>

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>										
<b>EXHIBIT P-5 COST ANALYSIS (CONTINUATION)</b>				Weapon System						DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>				ID Code		P-1 LINE ITEM NOMENCLATURE <b>OTHER NAVIGATION EQUIPMENT</b> <b>SUBHEAD NO. A1GW</b>						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010			FY 2011			FY 2012		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
<b>GWINS</b>	<b>INSTALLATION</b>											
	INSTALL OF EQUIPMENT		30.495	0	0.000	6.145	0	0.000	3.980	0	0.000	1.470
	<b>TOTAL INSTALLATION</b>		<b>30.495</b>			<b>6.145</b>			<b>3.980</b>			<b>1.470</b>
	<b>TOTAL</b>		<b>143.038</b>			<b>38.580</b>			<b>23.167</b>			<b>22.982</b>

CLASSIFICATION:				UNCLASSIFIED							
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE February 2011		
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	
<b>FY 2010</b>											
<b>GW036 RING LASER GYRO NAVIGATION</b>											
RING LASER GYROCOMPASS (AN/WSN-7B)	2	1.044	NAVSEA WNY WASH DC	SEP-09	SS IDIQ	SPERRY-CHARLOTTESVILLE,VA	DEC-09	JAN-11	YES		
RING LASER GYROCOMPASS (AN/WSN-7B)	4	1.044	NAVSEA WNY WASH DC	SEP-09	SS IDIQ	SPERRY-CHARLOTTESVILLE,VA	DEC-10	FEB-12	YES		
<b>GW050</b>											
TRAINING EQUIPMENT	5	0.300	NAVSEA PHILA PA NAVICP MECHANICSBURG PA	MAY-10	SS IDIQ	SPERRY-CHARLOTTESVILLE,VA	SEP-10	APR-11	YES		
SCALABLE ECDIS-N	5	0.515		SEP-09	SS IDIQ	SPERRY-CHARLOTTESVILLE,VA	MAR-10	OCT-10	YES		
<b>FY 2011</b>											
<b>GW050</b>											
SCALABLE ECDIS-N	2	0.290	NAVSEA PHILA PA	OCT-10	SS IDIQ	SPERRY-CHARLOTTESVILLE,VA	JAN-11	JUL-11	YES		
<b>FY 2012</b>											
<b>GW050</b>											
SCALABLE ECDIS-N	3	0.310	NAVSEA PHILA PA	OCT-11	SS IDIQ	SPERRY-CHARLOTTESVILLE,VA	JAN-12	JUL-12	YES		
Remarks:											
1) GW36: Two systems were procured on the Unfinalized Contract Action (UCA) awarded Dec 09. Remaining 4 systems were procured in Dec 2010.											
2) GW50: Quantity 5 Carrier Systems and quantity 5 Trainer Systems were FY09 requirements that were delayed until FY10 due to delays in Contractual award and funding realignment.											

**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). 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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<u>FINANCIAL PLAN ( IN MILLIONS)</u>																				
<u>RDT&amp;E</u>								3.4	4.2		3.0		2.8		2.4		CONT			15.8
<u>PROCUREMENT</u>																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	76	25.1	6	6.3															82	31.4
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	62	21.1	12	2.9	8	2.2													82	26.2
<u>TOTAL PROCUREMENT</u>		46.2		9.2		2.2														57.6

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED RING LASER GYRO NAVIGATION RING LASER GYROCOMPASS (AN/WSN-7B)	MODIFICATION TITLE: OTHER NAVIGATION EQUIPMENT
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 6 Months      PRODUCTION LEADTIME: 13 Months

CONTRACT DATES:	FY 2010:	DEC-09	FY 2011:		FY 2012:	
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DELIVERY DATES:	FY 2010:	JAN-11	FY 2011:		FY 2012:	
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	62	21.1	12	2.9	2	0.7													76
FY 2010 EQUIPMENT					6	1.5													6	1.5
FY 2011 EQUIPMENT																				
FY 2012 EQUIPMENT																				
FY 2013 EQUIPMENT																				
FY 2014 EQUIPMENT																				
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																				

**INSTALLATION SCHEDULE**

	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	62	0	2	4	0	2	2	6	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82
Out	62	0	2	4	0	2	2	6	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82

Remarks:

- 1) Multiple IDIQ award and delivery dates in FY10. See P-5A for details.
- 2) Undefinitized Contract Action (UCA) awarded Dec 09 for two systems. Remaining 4 systems were procured in Dec 2010.
- 3) Delay in UCA definitization has resulted in final systems deliveries being delayed until FY12. FY12 installs will be conducted with FY11 funds.
- 4) Due to ship schedules 6 units shown in FY2011 In/Out are to be installed using FY10 installation funding.



**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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<i>FINANCIAL PLAN (IN MILLIONS)</i>																				
<u>RDT&amp;E</u>								3.4		4.2		3.0		2.8		2.4		CONT		15.8
<u>PROCUREMENT</u>																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	45	11.1	5	2.6	2	0.6	3	0.9	4	1.3	4	1.3							63	17.8
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT			5	1.5															5	1.5
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	45	9.9	4	2.7	3	1.8	3	1.5	4	2.0	4	2.0							63	19.9
<u>TOTAL PROCUREMENT</u>		21.0		6.8		2.4		2.4		3.3		3.3								39.2

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

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

METHOD OF IMPLEMENTATION: AIT (ALTERATION INSTALLATION TEAM)

ADMINISTRATIVE LEADTIME: 2 Months      PRODUCTION LEADTIME: 6-8 Months

CONTRACT DATES:		FY 2010:	MAR-10	FY 2011:	JAN-11	FY 2012:	JAN-12
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DELIVERY DATES:		FY 2010:	OCT-10	FY 2011:	JUL-11	FY 2012:	JUL-12
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	45	9.9																	45
FY 2010 EQUIPMENT			4	2.7	1	0.8													5	3.5
FY 2011 EQUIPMENT					2	1.0													2	1.0
FY 2012 EQUIPMENT							3	1.5											3	1.5
FY 2013 EQUIPMENT									4	2.0									4	2.0
FY 2014 EQUIPMENT											4	2.0							4	2.0
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																				

**INSTALLATION SCHEDULE**

	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	45	0	0	0	4	0	0	1	2	0	0	0	3	0	0	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	63
Out	45	0	0	0	4	0	0	1	2	0	0	0	3	0	0	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	63

Remarks:

- 1) Multiple IDIQ award and delivery dates in FY10.
- 2) Quantity 5 Trainer Systems procured in FY10 are planned to be installed in Shore Based Trainer Facilities.
- 3) Quantity 5 Carrier Systems and quantity 5 Trainer Systems were FY09 requirements that were delayed until FY10 due to delays in contractual award and funding realignment.

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>												
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION</b>											<b>DATE</b> February 2011			
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>					<b>P-1 LINE ITEM NOMENCLATURE</b> SUB PERISCOPES & IMAGING EQUIP <b>SUBHEAD NO. H1PL BLI: 0831</b>									
Program Element for Code B Items 0204281N					Other Related Program Elements									
	Prior Years	ID Code		FY 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total
Quantity	42			15	23	13	0	13	17	17	17	14	0	158
COST ( In Millions)	273.0	A		79.0	85.6	60.9	0.0	60.9	54.2	58.7	54.0	54.9	0.0	720.3
SPARES COST ( In Millions)	0.0	0		2.6	2.9	2.5	0.0	2.5	0.6	0.5	1.9	2.0	0.0	13.0
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>														
<p>The Submarine Periscopes and Imaging Equipment Program procures the Type 18 and Type 8 periscope upgrades, Photonics Mast (PM), improved imaging capabilities incorporated in the Integrated Submarine Imaging System (ISIS), and VIRGINIA Class imaging upgrades and Photonics land based spares. Commander Naval Submarine Force (CNSF), Operations Review Group (ORG) selected the Periscope Acquisition, Tracking, and Ranging with Improved Observation Techniques (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. 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 at night and 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 operator alerts, imaging enhancement tools and contact analysis tools, and a fully Submarine Warfare Federated Tactical Systems (SWFTS) integrated system providing "any display anywhere." 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. 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 including the AN/BVY-1 ISIS capability. Estimates include competitive sourcing savings associated with consolidation of production support contracting efforts.</p>														
<b>PL011</b>														
<p>Imaging Block Upgrades/Technical Insertions - Funding procures Imaging Technical Insertion kits to upgrade ISIS systems on LOS ANGELES, SEAWOLF, and OHIO Class SSGN platforms to allow for Capability Insertion and obsolescence avoidance. Funding continues procurement of Periscopes and Imaging Equipment reliability, capability, and maintainability upgrades, e.g., Type 18 Eyepiece Box, Training Handle and Focusing Aid improvements, periscope mechanical hoisting mechanism upgrades, inboard electronic processing hardware and associated Integrated Logistics Support (ILS), and technical data. Variable quantities and types are bought in each fiscal year.</p>														

<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> SUB PERISCOPES & IMAGING EQUIP <b>SUBHEAD NO. H1PL BLI: 0831</b>	
<p><b>PL012</b> 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, Eyebow/Mast Test Set, and Antenna/Outer Head Simulator required due to obsolescence and age of existing imaging systems SSE.</p> <p><b>PL015</b> Funding is for Interim Contract Support provided by the periscope manufacturer. The majority of the depot repair funding is for the repair of Photonics Masts. It also funds Intermediate level repair of all types of tactical submarine imaging systems.</p> <p><b>PL016</b> 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><b>PL022</b> 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 the Type 18 PATRIOT Automated Range Finder and Type 8 IR Periscope as well as other new capabilities into the Type 18 and Type 8 Periscopes.</p> <p><b>PL023</b> Beginning in FY10, funds procure VIRGINIA Class AN/BVY-1 ISIS systems and associated Technical Insertion upgrades including the Photonics Mast.</p> <p><b>PL024</b> Beginning in FY10, funds procure VIRGINIA Class Photonics land based spares. These spares will be used for replacement of tactical Photonics masts on VIRGINIA class submarines in the event of catastrophic failure.</p> <p><b>PL830</b> 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> <p><b>PL900</b> 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><b>PL51N</b> Funding is for the installation of Fleet Modernization Program Equipment.</p>		

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>										
<b>EXHIBIT P-5 COST ANALYSIS</b>				Weapon System						DATE		
										February 2011		
APPROPRIATION/BUDGET ACTIVITY				ID Code		P-1 LINE ITEM NOMENCLATURE						
<b>OTHER PROCUREMENT, NAVY/BA 1</b>				<b>A</b>		<b>SUB PERISCOPES &amp; IMAGING EQUIP</b>						
						<b>SUBHEAD NO. H1PL</b>						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<b><u>EQUIPMENT</u></b>											
<b>PL011</b>	<b><u>IMAGING BLOCK UPGRADES/TECHNICAL INSERTIONS</u></b>											
	IMAGING BLOCK UPGRADES: TYPE 8/TYPE 18	A	14.286	0	0.000	0.224	1	0.227	0.227	1	0.231	0.231
	TECHNICAL INSERTION NRE	A	3.044	0	0.000	0.000	0	0.000	1.764	0	0.000	0.691
	IMAGING ISIS TI-10	A	0.000	4	0.938	3.752	6	0.936	5.615	0	0.000	0.000
	IMAGING ISIS TECHNICAL INSERTION	A	0.000	0	0.000	0.000	0	0.000	0.000	2	0.926	1.852
<b>PL012</b>	PERISCOPE SPECIAL SUPPORT EQUIPMENT	A	2.001	0	0.000	1.361	0	0.000	0.493	0	0.000	0.501
<b>PL015</b>	PERISCOPE INTERIM CONTRACTOR SUPPORT	A	13.491	0	0.000	19.509	0	0.000	19.678	0	0.000	16.110
<b>PL016</b>	PERISCOPE TRAINING	A	0.618	0	0.000	0.161	0	0.000	0.164	0	0.000	0.167
<b>PL022</b>	<b><u>INTEGRATED SUBMARINE IMAGING SYSTEM (ISIS)</u></b>											
	ISIS INCREMENT I CAPABILITY INSERTION NRE	A	0.000	0	0.000	7.034	0	0.000	8.104	0	0.000	0.000
	ISIS INCREMENT I CAPABILITY INSERTION	A	172.386	4	3.703	14.812	4	3.766	15.064	2	3.827	7.653
	ISIS INCREMENT I CAPABILITY INSERTION SPARES/CCM	A	14.571	2	3.170	6.340	2	3.223	6.446	0	0.000	0.000
<b>PL023</b>	<b><u>VIRGINIA CLASS IMAGING MODERNIZATION</u></b>											
	AN/BVS-1 ISIS	A	0.000	1	12.998	12.998	2	4.064	8.127	2	4.129	8.257
	TI - PHOTONICS MAST WS	A	4.090	0	0.000	0.234	0	0.000	0.701	0	0.000	0.000
	AN/BVS-1 MAST TECH INSERTION	A	0.000	2	0.606	1.212	4	0.616	2.465	4	0.626	2.504
	AN/BVS-1 MAST TECH INSERTION SPARES	A	0.000	2	0.606	1.212	3	0.616	1.849	0	0.000	0.000
	AN/BVS-1 ISIS PRODUCTION SUPPORT	A	0.000	0	0.000	0.467	0	0.000	0.475	0	0.000	0.483
<b>PL024</b>	PHOTONICS SPARES		0.000	0	0.000	0.000	1	5.446	5.446	2	5.533	11.066

<b>CLASSIFICATION:</b>			<b>UNCLASSIFIED</b>									
<b>EXHIBIT P-5 COST ANALYSIS (CONTINUATION)</b>			Weapon System							DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>			ID Code <b>A</b>		P-1 LINE ITEM NOMENCLATURE <b>SUB PERISCOPES &amp; IMAGING EQUIP</b> <b>SUBHEAD NO. H1PL</b>							
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
<b>PL830</b>	PERISCOPE PRODUCTION ENGINEERING	A	11.816	0	0.000	3.122	0	0.000	3.292	0	0.000	3.344
<b>PL900</b>	PERISCOPE CONSULTING SERVICES - CSS	A	2.139	0	0.000	0.551	0	0.000	0.560	0	0.000	0.420
	<b>TOTAL EQUIPMENT</b>		<b>238.442</b>			<b>72.989</b>			<b>80.470</b>			<b>53.279</b>
	<b>INSTALLATION</b>											
<b>PL5IN</b>	PERISCOPE FMP INSTALLATION	A	23.078	0	0.000	3.142	0	0.000	2.806	0	0.000	3.901
<b>PL5IN</b>	PERISCOPE FMP INSTALLATION - DSA	A	6.502	0	0.000	0.871	0	0.000	0.421	0	0.000	0.585
<b>PL5IN</b>	PERISCOPE FMP INSTALLATION - ORDALTS	A	5.024	0	0.000	1.971	0	0.000	1.922	0	0.000	3.095
	<b>TOTAL INSTALLATION</b>		<b>34.604</b>			<b>5.984</b>			<b>5.149</b>			<b>7.581</b>
	<b>TOTAL</b>		<b>273.046</b>			<b>78.973</b>			<b>85.619</b>			<b>60.860</b>
<b>Comment:</b>												
PL011 - Imaging Block Upgrades are procured in variable quantities and types, and are bought from a variety of vendors in each fiscal year.												
PL011 - Increase in Technical Insertion NRE in FY14 is required for SSGN TI-14 and obsolescence mitigation.												
PL022 - Increase in ISIS Increment I Capability Insertion NRE required in FY10 for TI-10 and in FY11 for TI-12.												
PL023 - Unit Increase in AN/BVS-1 ISIS due to NRE required for TI/APB integration on VA Class.												

CLASSIFICATION:					UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE February 2011		
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	
<b>FY 2010</b>											
<b>PL011 IMAGING BLOCK UPGRADES/TECHNICAL INSERTIONS</b>											
IMAGING ISIS TI-10	4	0.938	NAVSEA, WASH, DC	SEP-09	O/CPIF	LMC, MANASSAS, VA	JUL-10	JAN-11	YES	TBD	
<b>PL022 INTEGRATED SUBMARINE IMAGING SYSTEM (ISIS)</b>											
ISIS INCREMENT I CAPABILITY INSERTION	4	3.703	NUWC NEWPORT, RI	SEP-09	O/CPIF	MULTIPLE VENDORS	APR-10	SEP-11	YES	TBD	
ISIS INCREMENT I CAPABILITY INSERTION SPARES/CCM	2	3.170	NUWC NEWPORT, RI	SEP-09	O/CPIF	MULTIPLE VENDORS	APR-10	SEP-11	YES	TBD	
<b>PL023 VIRGINIA CLASS IMAGING MODERNIZATION</b>											
AN/BVS-1 ISIS	1	12.998	NAVSEA, WASH, DC	SEP-09	O/CPIF	LMC, MANASSAS, VA	JUL-10	JUL-11	YES	TBD	
AN/BVS-1 MAST TECH INSERTION	2	0.606	NUWC NEWPORT, RI	SEP-09	O/CPFP	SEACORP, MIDDLETOWN, RI	JUN-10	JUN-11	YES	TBD	
AN/BVS-1 MAST TECH INSERTION SPARES	2	0.606	NUWC NEWPORT, RI	SEP-09	O/CPFP	SEACORP, MIDDLETOWN, RI	JUN-10	JUN-11	YES	TBD	
<b>FY 2011</b>											
<b>PL011 IMAGING BLOCK UPGRADES/TECHNICAL INSERTIONS</b>											
IMAGING BLOCK UPGRADES: TYPE 8/TYPE 18	1	0.227	NUWC NEWPORT, RI	SEP-10	O/CPIF	MULTIPLE VENDORS	MAR-11	MAY-12	YES	TBD	
IMAGING ISIS TI-10	6	0.936	NAVSEA, WASH, DC	SEP-10	O/CPIF	LMC, MANASSAS, VA	MAR-11	OCT-11	YES	TBD	
<b>PL022 INTEGRATED SUBMARINE IMAGING SYSTEM (ISIS)</b>											
ISIS INCREMENT I CAPABILITY INSERTION	4	3.766	NUWC NEWPORT, RI	SEP-10	O/CPIF	MULTIPLE VENDORS	MAR-11	AUG-12	YES	TBD	
ISIS INCREMENT I CAPABILITY INSERTION SPARES/CCM	2	3.223	NUWC NEWPORT, RI	SEP-10	O/CPIF	MULTIPLE VENDORS	MAR-11	AUG-12	YES	TBD	
<b>PL023 VIRGINIA CLASS IMAGING MODERNIZATION</b>											
AN/BVS-1 ISIS	2	4.064	NAVSEA, WASH, DC	SEP-10	O/CPIF	LMC, MANASSAS, VA	MAR-11	MAR-12	YES	TBD	
AN/BVS-1 MAST TECH INSERTION	4	0.616	NUWC NEWPORT, RI	SEP-10	O/CPFP	SEACORP, MIDDLETOWN, RI	MAR-11	MAR-12	YES	TBD	
AN/BVS-1 MAST TECH INSERTION SPARES	3	0.616	NUWC NEWPORT, RI	SEP-10	O/CPFP	SEACORP, MIDDLETOWN, RI	MAR-11	MAR-12	YES	TBD	
<b>PL024</b>											
PHOTONICS SPARES	1	5.446	NAVSEA, WASH, DC	SEP-10	O/SS	KEO, NORTHAMPTON, MA	MAR-11	MAY-12	YES		
<b>FY 2012</b>											
<b>PL011 IMAGING BLOCK UPGRADES/TECHNICAL INSERTIONS</b>											
IMAGING BLOCK UPGRADES: TYPE 8/TYPE 18	1	0.231	NAVSEA, WASH, DC	SEP-11	O/CPIF	MULTIPLE VENDORS	MAR-12	MAY-13	YES	TBD	

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				DATE February 2011	
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
IMAGING ISIS TECHNICAL INSERTION <b>PL022 INTEGRATED SUBMARINE IMAGING SYSTEM (ISIS)</b>	2	0.926	NAVSEA, WASH, DC	SEP-11	O/CPIF	LMC, MANASSAS, VA	MAR-12	MAR-13	YES	TBD
ISIS INCREMENT I CAPABILITY INSERTION <b>PL023 VIRGINIA CLASS IMAGING MODERNIZATION</b>	2	3.827	NUWC NEWPORT, RI	SEP-11	O/CPIF	MULTIPLE VENDORS	MAR-12	AUG-13	YES	TBD
AN/BVS-1 ISIS	2	4.129	NAVSEA, WASH, DC	SEP-11	O/CPIF	LMC, MANASSAS, VA	MAR-12	MAR-13	YES	TBD
AN/BVS-1 MAST TECH INSERTION <b>PL024</b>	4	0.626	NUWC NEWPORT, RI	SEP-11	O/CPFP	SEACORP, MIDDLETOWN, RI	MAR-12	MAR-13	YES	TBD
PHOTONICS SPARES	2	5.533	NAVSEA, WASH, DC	SEP-10	O/SS	KEO, NORTHAMPTON, MA	MAR-12	MAY-13	YES	



**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED PL011 IMAGING BLOCK UPGRADES/TECHNICAL INSERTIONS IMAGING BLOCK UPGRADES: TYPE 8/TYPER 18	TYPE MODIFICATION: ORDALT	MODIFICATION TITLE: SUB PERISCOPES & IMAGING EQUIP
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**DESCRIPTION/JUSTIFICATION:**

Provides obsolescence related upgrades for Submarine Periscopes.

**DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:**

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
<i>FINANCIAL PLAN (IN MILLIONS)</i>																						
<i>RDT&amp;E</i>																						
<b>PROCUREMENT</b>																						
MODIFICATION KITS																						
MODIFICATION KITS - UNIT COST																						
MODIFICATION NONRECURRING																						
EQUIPMENT		14.3		0.2	1	0.2	1	0.2	1	0.2	1	0.2	1	0.2	1	0.2				6	15.7	
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST	34	2.5	26	2.0	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	67	5.2
<b>TOTAL PROCUREMENT</b>		16.8		2.2		0.3		0.3		0.3		0.3		0.3		0.3		0.1			20.9	

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED IMAGING BLOCK UPGRADES/TECHNICAL INSERTIONS IMAGING BLOCK UPGRADES: TYPE 8/TYPE 18	MODIFICATION TITLE: SUB PERISCOPES & IMAGING EQUIP
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 6 Months      PRODUCTION LEADTIME: 14 Months

CONTRACT DATES:	FY 2010:	FY 2011:	MAR-11	FY 2012:	MAR-12
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DELIVERY DATES:	FY 2010:	FY 2011:	MAY-12	FY 2012:	MAY-13
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	34	2.5	26	2.0															60
FY 2010 EQUIPMENT					1	0.1													1	0.1
FY 2011 EQUIPMENT							1	0.1											1	0.1
FY 2012 EQUIPMENT									1	0.1									1	0.1
FY 2013 EQUIPMENT											1	0.1							1	0.1
FY 2014 EQUIPMENT													1	0.1					1	0.1
FY 2015 EQUIPMENT															1	0.1			1	0.1
FY 2016 EQUIPMENT																	1	0.1	1	0.1
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
In	34	7	7	6	6	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	1	1	67
Out	34	7	7	6	6	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	1	1	67

Remarks: PL011 Imaging Block Upgrades are procured in variable quantities and types from a variety of vendors in each fiscal year therefore procurement is not quantified in FY10 and prior.

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED PL011 IMAGING BLOCK UPGRADES/TECHNICAL INSERTIONS IMAGING ISIS TI-10	TYPE MODIFICATION: ORDALT	MODIFICATION TITLE: SUB PERISCOPES & IMAGING EQUIP
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DESCRIPTION/JUSTIFICATION:  
Imaging Technical Insertion kits upgrade the Integrated Submarine Imaging Systems (ISIS) on LOS ANGELES, SEAWOLF, and OHIO Class (SSGN) platforms to allow for obsolescence avoidance.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<u>FINANCIAL PLAN (IN MILLIONS)</u>																					
<u>RDT&amp;E</u>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT			4	3.8	6	5.6														10	9.4
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST					3	1.8	7	3.0												10	4.8
<u>TOTAL PROCUREMENT</u>				3.8		7.4		3.0													14.2

CLASSIFICATION: UNCLASSIFIED February 2011

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED: IMAGING BLOCK UPGRADES/TECHNICAL INSERTIONS IMAGING ISIS TI-10  
 MODIFICATION TITLE: SUB PERISCOPES & IMAGING EQUIP

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 6-14 Months

CONTRACT DATES: FY 2010: JUL-10 FY 2011: MAR-11 FY 2012:

DELIVERY DATES: FY 2010: JAN-11 FY 2011: OCT-11 FY 2012:

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS																					
FY 2010 EQUIPMENT					3	1.8	1	0.4												4	2.2
FY 2011 EQUIPMENT							6	2.6												6	2.6
FY 2012 EQUIPMENT																					
FY 2013 EQUIPMENT																					
FY 2014 EQUIPMENT																					
FY 2015 EQUIPMENT																					
FY 2016 EQUIPMENT																					
TO COMPLETE																					

INSTALLATION SCHEDULE

	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	1	1	1	2	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Out	0	0	0	0	0	0	1	1	1	2	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

SSGN lead time is 6-7 months. SSN 688 and SSN 21 Class lead time is 14 months.

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED PL011 IMAGING BLOCK UPGRADES/TECHNICAL INSERTIONS IMAGING ISIS TECHNICAL INSERTION	TYPE MODIFICATION: ORDALT	MODIFICATION TITLE: SUB PERISCOPES & IMAGING EQUIP
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**DESCRIPTION/JUSTIFICATION:**

Imaging Technical Insertion kits upgrade the Integrated Submarine Imaging Systems (ISIS) on LOS ANGELES, SEAWOLF, and OHIO Class (SSGN) platforms to allow for obsolescence avoidance.

**DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:**

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	<i>FINANCIAL PLAN (IN MILLIONS)</i>																				
<i>RDT&amp;E</i>																					
<i>PROCUREMENT</i>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT							2	1.9	5	4.7	11	10.8	8	8.1	8	8.0			34	33.5	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST									2	0.6	5	1.5	9	3.8	9	3.8	9	3.8	34	13.5	
<b>TOTAL PROCUREMENT</b>								1.9		5.3		12.3		11.9		11.8		3.8		47.0	

CLASSIFICATION: UNCLASSIFIED February 2011

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED: IMAGING BLOCK UPGRADES/TECHNICAL INSERTIONS IMAGING ISIS TECHNICAL INSERTION  
 MODIFICATION TITLE: SUB PERISCOPES & IMAGING EQUIP

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 12 Months

CONTRACT DATES: FY 2010: FY 2011: FY 2012: MAR-12

DELIVERY DATES: FY 2010: FY 2011: FY 2012: MAR-13

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS																					
FY 2010 EQUIPMENT																					
FY 2011 EQUIPMENT																					
FY 2012 EQUIPMENT									2	0.6										2	0.6
FY 2013 EQUIPMENT											5	1.5								5	1.5
FY 2014 EQUIPMENT													9	3.8	2	0.8				11	4.6
FY 2015 EQUIPMENT															7	3.0	1	0.4		8	3.4
FY 2016 EQUIPMENT																	8	3.4		8	3.4
TO COMPLETE																					

INSTALLATION SCHEDULE

	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	2	2	0	2	3	4	2	3	2	2	9	34
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	2	2	0	2	3	4	2	3	2	2	9	34

Remarks:

**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
---	-------------------------------	---

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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN (IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	36	172.4	4	14.8	4	15.1	2	7.7											46	210.0	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
SPARES/CCM	4	14.5	2	6.3	2	6.4													8	27.2	
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	21	27.7	8	3.5	5	2.5	6	3.1	5	2.6	1	0.5							46	39.9	
<u>TOTAL PROCUREMENT</u>		214.6		24.6		24.0		10.8		2.6		0.5									277.1

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED INTEGRATED SUBMARINE IMAGING SYSTEM (ISIS) ISIS INCREMENT I CAPABILITY INSERTION	MODIFICATION TITLE: SUB PERISCOPES & IMAGING EQUIP
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 6 Months      PRODUCTION LEADTIME: 17 Months

CONTRACT DATES:	FY 2010:	APR-10	FY 2011:	MAR-11	FY 2012:	MAR-12
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DELIVERY DATES:	FY 2010:	SEP-11	FY 2011:	AUG-12	FY 2012:	AUG-13
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	21	27.7	8	3.5	5	2.5	2	1.0											36
FY 2010 EQUIPMENT							4	2.1											4	2.1
FY 2011 EQUIPMENT									4	2.1									4	2.1
FY 2012 EQUIPMENT								1	0.5	1	0.5								2	1.0
FY 2013 EQUIPMENT																				
FY 2014 EQUIPMENT																				
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL		
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
In	21	2	0	3	3	1	3	1	0	3	1	2	0	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Out	21	2	0	3	3	1	3	1	0	3	1	2	0	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	46	

Remarks:



**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
---	-------------------------------	---

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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN ( IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT			1	13.0	2	8.1	2	8.3	3	11.9	1	5.0	1	5.1		1.5			10	52.9	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST					1	0.6	2	1.2	2	1.2	3	1.8	1	0.6	1	0.6			10	6.0	
<u>TOTAL PROCUREMENT</u>				13.0		8.7		9.5		13.1		6.8		5.7		2.1					58.9

CLASSIFICATION: UNCLASSIFIED February 2011

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

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

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 6 Months      PRODUCTION LEADTIME: 12 Months

CONTRACT DATES:	FY 2010:	JUL-10	FY 2011:	MAR-11	FY 2012:	MAR-12
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DELIVERY DATES:	FY 2010:	JUL-11	FY 2011:	MAR-12	FY 2012:	MAR-13
-----------------	----------	--------	----------	--------	----------	--------

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	PRIOR YEARS																				
FY 2010 EQUIPMENT					1	0.6														1	0.6
FY 2011 EQUIPMENT							2	1.2												2	1.2
FY 2012 EQUIPMENT									2	1.2										2	1.2
FY 2013 EQUIPMENT											3	1.8								3	1.8
FY 2014 EQUIPMENT													1	0.6						1	0.6
FY 2015 EQUIPMENT															1	0.6				1	0.6
FY 2016 EQUIPMENT																					
TO COMPLETE																					

INSTALLATION SCHEDULE

	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
In	0	0	0	0	0	0	0	0	1	0	1	1	0	0	1	1	0	0	1	2	0	0	1	0	0	0	1	0	0	0	0	10
Out	0	0	0	0	0	0	0	0	1	0	1	1	0	0	1	1	0	0	1	2	0	0	1	0	0	0	1	0	0	0	0	10

Remarks:

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED PL023 VIRGINIA CLASS IMAGING MODERNIZATION AN/BVS-1 MAST TECH 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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN( IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT			2	1.2	4	2.5	4	2.5	6	3.8	2	1.3	2	1.3						20	12.6
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST					2	0.1	4	0.2	4	0.2	6	0.3	2	0.1	2	0.1				20	1.0
<u>TOTAL PROCUREMENT</u>				1.2		2.6		2.7		4.0		1.6		1.4		0.1					13.6

**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: 12 Months

CONTRACT DATES:	FY 2010:	JUN-10	FY 2011:	MAR-11	FY 2012:	MAR-12
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DELIVERY DATES:	FY 2010:	JUN-11	FY 2011:	MAR-12	FY 2012:	MAR-13
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	PRIOR YEARS																				
FY 2010 EQUIPMENT					2	0.1														2	0.1
FY 2011 EQUIPMENT							4	0.2												4	0.2
FY 2012 EQUIPMENT									4	0.2										4	0.2
FY 2013 EQUIPMENT											6	0.3								6	0.3
FY 2014 EQUIPMENT													2	0.1						2	0.1
FY 2015 EQUIPMENT															2	0.1				2	0.1
FY 2016 EQUIPMENT																					
TO COMPLETE																					

INSTALLATION SCHEDULE

	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
In	0	0	0	0	0	0	0	2	0	0	2	2	0	0	2	2	0	0	2	4	0	0	2	0	0	0	2	0	0	0	0	20
Out	0	0	0	0	0	0	0	2	0	0	2	2	0	0	2	2	0	0	2	4	0	0	2	0	0	0	2	0	0	0	0	20

Remarks: Two masts per hull.

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>												
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION</b>										<b>DATE</b> February 2011				
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>						<b>P-1 LINE ITEM NOMENCLATURE</b> DDG MOD <b>SUBHEAD NO. 81DM BLI: 0900</b>								
Program Element for Code B Items 0204228N						Other Related Program Elements								
	Prior Years	ID Code		FY 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total
Quantity	0			2	3	3	0	3	5	3	5	5	30	56
COST ( In Millions)	252.9			159.3	296.7	119.5	0.0	119.5	441.5	346.0	692.2	519.9	2,189.5	5,017.5
SPARES COST ( In Millions)	10.6			9.3	13.3	4.4	0.0	4.4	8.8	13.8	11.4	15.5	CONT	CONT
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>														
<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&amp;E and Combat Systems (CS) areas installed in two respective phases beginning with 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&amp;E and Combat Systems) started in each fiscal year. HM&amp;E: 2-3-2-3-2-3-3 Combat System: 0-0-1-2-1-2-2</p> <p>The HM&amp;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 expected service life of the DDG 51 Class. The upgrades will focus on technologies that reduce workload and 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 in conjunction with 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, 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>														

<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> DDG MOD <b>SUBHEAD NO. 81DM BLI: 0900</b>	
<p><b>DM001 - DDG MODERNIZATION HM&amp;E</b> Description: DDG51 Class Applicable Hulls: DDG 51 - DDG 78 HM&amp;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><b>DM002 - LAND-BASED ENGINEERING SITES</b> Funds will be used to upgrade shore facilities for Combat Systems and HM&amp;E alterations providing risk reduction testing.</p> <p><b>DM003 - MK 160 MOD X GUN WEAPON SYSTEM (GWS)</b> Procures MK 160 Mod X Gun Weapon System (GWS) combat systems that consist of hardware, software, system engineering, integrated logistics support, system test &amp; 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><b>DM004 - AEGIS WEAPON SYSTEM (AWS) COMPUTER AND DISPLAY</b> Procures equipment for the AWS Upgrades that consist of hardware, software, system engineering, integrated logistics support, system test &amp; 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><b>DM005 - MULTI-MISSION SIGPRO</b> Procures Multi-Mission SIGPRO combat systems that consist of hardware, software, system engineering, integrated logistics support, system test &amp; 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><b>DM006 - MULTI-MISSION SOLID STATE AMPLIFIER (SSA)/CONTINUOUS WAVE ILLUMINATION (CWI) MICROWAVE TUBES</b> 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 &amp; 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><b>DM007 - SPY-1D(V) TRANSMITTER UPGRADES</b> Procures SPY-1D(V) Transmitter Upgrades combat systems that consist of hardware, software, system engineering, integrated logistics support, system test &amp; 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><b>DM008 - MULTI-MISSION BALLISTIC MISSILE DEFENSE (BMD) CAPABILITY</b> Procures Multi-Mission BMD Capability combat systems that consist of hardware, software, system engineering, integrated logistics support, system test &amp; 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><b>DM009 - VERTICAL LAUNCH SYSTEM (VLS) MODS</b> 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 &amp; 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>		

<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> DDG MOD <b>SUBHEAD NO. 81DM BLI: 0900</b>	
<p><b>DM010 - FIRE CONTROL SYSTEM (FCS) STABLE MASTER OSCILLATOR (STAMO)</b>  Procures Stable Master Oscillator (STAMO) combat systems that consist of hardware, software, system engineering, integrated logistics support, system test &amp; 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><b>DM011 - AN/SQQ-89A(V)15 WITH MULTI-FUNCTIONAL TOWED ARRAY (MFTA)</b>  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 &amp; 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><b>DM012 - COOPERATIVE ENGAGEMENT CAPABILITY (CEC)</b>  Procures Cooperative Engagement Capability (CEC) combat systems that consist of hardware, software, system engineering, integrated logistics support, system test &amp; 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><b>DM013 - CONJUNCTIVE ALTERATION DEFINITION AND INTEGRATION</b>  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><b>DM6IN - FMP INSTALLATION</b>  Funds are for installation of DDG Modernization equipment in support of the Fleet Modernization Program.</p> <p><b>DMCA1 - DDG-51 MODERNIZATION PROGRAM</b>  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 &amp; 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><b>DMCA3 - COMMUNICATIONS UPGRADE FOR DDG MODERNIZATION</b>  Description: Communications Upgrade for DDG Modernization Congressional Add  Procures communications upgrades for DDG Modernization Program that consist of hardware, software, system engineering, integrated logistics support, system test &amp; 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><b>DMCA4 - SMART VALVE AUTOMATIC FIRE SUPPRESSION SYSTEM</b>  Description: Congressional Add for Smart Valve system. The Smart Valve is the enabling technology behind the Automatic Fire Suppression System (AFSS), which provides the sensing capability to detect ruptures in the fire main piping system that occur during a damage event; the ability to isolate damaged sections of the piping system; and the embedded "intelligence" to reconfigure the system to maintain firefighting capability where it is most needed without any operator intervention for in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78).</p>		

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>										
<b>EXHIBIT P-5 COST ANALYSIS</b>				Weapon System AEGIS WEAPON SYSTEM						DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>				ID Code <b>A</b>		P-1 LINE ITEM NOMENCLATURE <b>DDG MOD</b> <b>SUBHEAD NO. 81DM</b>						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<b><u>EQUIPMENT</u></b>											
<b>DM001</b>	<b><u>DDG MODERNIZATION HM&amp;E</u></b>											
	GEDMS EQUIPMENT		24.307	2	4.984	9.968	3	5.074	15.221	2	5.165	10.330
	GEDMS ENGINEERING SERVICES		0.000	0	0.000	2.073	0	0.000	3.167	0	0.000	1.374
	MCS/DCS 1ST ARTICLE & NRE		8.643	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	MCS/DCS EQUIPMENT		17.332	2	3.554	7.108	3	3.608	10.823	2	3.673	7.345
	DVSS 1ST ARTICLE & NRE		0.477	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	DVSS EQUIPMENT		1.024	2	0.210	0.420	3	0.214	0.641	2	0.218	0.435
	WIRELESS COMMUNICATIONS EQUIPMENT		1.163	2	0.397	0.794	3	0.404	1.212	1	0.411	0.411
	IBS 1ST ARTICLE & NRE		4.186	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	IBS EQUIPMENT		15.109	2	3.098	6.196	3	3.154	9.461	2	3.211	6.421
	IBS ENGINEERING SERVICES		0.000	0	0.000	0.797	0	0.000	1.219	0	0.000	0.698
<b>DM002</b>	<b>LAND-BASED ENGINEERING SITES</b>		136.276	0	0.000	4.416	0	0.000	13.148	0	0.000	8.040
<b>DM003</b>	<b><u>MK 160 MOD X GWS</u></b>											
	MK 160 MOD X GWS EQUIPMENT		0.000	1	2.765	2.765	2	2.815	5.630	0	0.000	0.000
	ENGINEERING SERVICES		0.000	0	0.000	1.069	0	0.000	5.658	0	0.000	0.000
<b>DM004</b>	<b><u>AWS UPGRADE</u></b>											
	AWS EQUIPMENT		0.000	1	20.022	20.022	2	20.382	40.764	0	0.000	0.000
	ENGINEERING SERVICES		0.000	0	0.000	1.219	0	0.000	2.482	0	0.000	0.000
<b>DM005</b>	<b><u>MULTI-MISSION SIGPRO</u></b>											
	MULTI-MISSION SIGPRO EQUIPMENT		0.000	1	15.412	15.412	2	15.689	31.378	0	0.000	0.000
	ENGINEERING SERVICES		0.000	0	0.000	1.000	0	0.000	3.069	0	0.000	0.000



CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)				Weapon System AEGIS WEAPON SYSTEM						DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code A		P-1 LINE ITEM NOMENCLATURE DDG MOD SUBHEAD NO. 81DM						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
DM006	<u>MULTI-MISSION SSA/CWI MICROWAVE TUBES</u> MULTI-MISSION SSA/CWI MICROWAVE TUBES EQUIPMENT		0.000	1	0.938	0.938	2	0.952	1.904	0	0.000	0.000
DM007	<u>SPY-1D(V) TRANSMITTER UPGRADES</u> SPY-1D(V) TRANSMITTER EQUIPMENT		0.000	1	4.016	4.016	2	4.088	8.176	0	0.000	0.000
DM008	<u>MULTI-MISSION BMD CAPABILITY</u> MULTI-MISSION BMD EQUIPMENT		0.000	1	1.764	1.764	2	1.796	3.592	0	0.000	0.000
DM009	<u>VLS UPGRADES</u> VLS EQUIPMENT		0.000	1	7.799	7.799	2	7.939	15.877	0	0.000	0.000
	ENGINEERING SERVICES		0.000	0	0.000	0.680	0	0.000	1.384	0	0.000	0.000
DM010	<u>FCS STAMO</u> FCS STAMO EQUIPMENT		0.000	1	2.500	2.500	2	2.545	5.090	0	0.000	0.000
DM011	<u>AN/SQQ-89</u> AN/SQQ-89 EQUIPMENT		0.000	1	7.712	7.712	2	7.851	15.702	0	0.000	0.000
	ENGINEERING SERVICES		0.000	0	0.000	1.280	0	0.000	4.562	0	0.000	0.000
DM012	<u>CEC</u> CEC EQUIPMENT		0.000	1	4.319	4.319	2	4.397	8.793	0	0.000	0.000
	ENGINEERING SERVICES		0.000	0	0.000	0.469	0	0.000	0.955	0	0.000	0.000
DM013	CONJUNCTIVE ALTERATION DEFINITION AND INTEGRATION		1.678	0	0.000	8.049	0	0.000	16.388	0	0.000	0.000

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)				Weapon System AEGIS WEAPON SYSTEM						DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code A		P-1 LINE ITEM NOMENCLATURE DDG MOD SUBHEAD NO. 81DM						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
DMCA1	DDG-51 MODERNIZATION PROGRAM CONGRESSIONAL ADD											
	DDG-51 MODERNIZATION SQQ-89A(V) W/MFTA		5.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
DMCA3	COMMUNICATIONS UPGRADE FOR DDG MOD CONGRESSIONAL ADD											
	COMMUNICATIONS UPGRADE		3.120	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
DMCA4	SMART VALVE AUTOMATIC FIRE SUPPRESSION SYSTEM											
	SMART VALVE EQUIPMENT		0.000	0	0.000	2.480	0	0.000	0.000	0	0.000	0.000
	TOTAL EQUIPMENT		243.315			115.265			226.296			35.054
	<u>INSTALLATION</u>											
DM6IN	INSTALLATION OF EQUIPMENT		9.596	0	0.000	44.031	0	0.000	70.395	0	0.000	84.468
	TOTAL INSTALLATION		9.596			44.031			70.395			84.468
	<b>TOTAL</b>		252.911			159.296			296.691			119.522

<b>CLASSIFICATION:</b>				<b>UNCLASSIFIED</b>						
<b>Exhibit P5A, PROCUREMENT HISTORY AND PLANNING</b>					Weapon System AEGIS WEAPON SYSTEM				<b>DATE</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>					<b>P-1 LINE ITEM NOMENCLATURE</b> <b>DDG MOD</b> <b>BLIN: 0900</b>				<b>SUBHEAD</b> <b>81DM</b>	
<b>COST ELEMENT</b> <b>FISCAL YEAR</b>	<b>Quantity</b>	<b>UNIT COST</b>	<b>LOCATION OF PCO</b>	<b>RFP ISSUE DATE</b>	<b>CONTRACT METHOD &amp; TYPE</b>	<b>CONTRACTOR AND LOCATION</b>	<b>AWARD DATE</b>	<b>DATE OF FIRST DELIVERY</b>	<b>SPEC AVAIL NOW</b>	<b>DATE REVISIONS AVAILABLE</b>
<b>FY 2010</b>										
<b>DM001 DDG MODERNIZATION HM&amp;E</b>										
GEDMS EQUIPMENT	2	4.984	DAHLGREN	N/A	FP	BOEING, ANAHEIM	SEP-10	JAN-12		
MCS/DCS EQUIPMENT	2	3.554	NAVSEA	N/A	FP	LOCKHEED MARTIN	SEP-10	JAN-12		
DVSS EQUIPMENT	2	0.210	NAVSEA	N/A	FP	NSWC SSES	SEP-10	JAN-12		
WIRELESS COMMUNICATIONS EQUIPMENT	2	0.397	NAVSEA	N/A	FP	NSWC CRANE	SEP-10	JAN-12		
IBS EQUIPMENT	2	3.098	NAVSEA	N/A	FP	NORTHROP GRUMMAN	SEP-10	JAN-12		
<b>DM003 MK 160 MOD X GWS</b>										
MK 160 MOD X GWS EQUIPMENT	1	2.765	NAVSEA	N/A	FP**	VARIOUS	JUN-10	DEC-11	YES	
<b>DM004 AWS UPGRADE</b>										
AWS EQUIPMENT	1	20.022	NAVSEA	N/A	FP**	LOCKHEED, MOORESTOWN NJ	APR-10	DEC-11	YES	
<b>DM005 MULTI-MISSION SIGPRO</b>										
MULTI-MISSION SIGPRO EQUIPMENT	1	15.412	NAVSEA	N/A	FP	LOCKHEED, MOORESTOWN NJ	OCT-10	APR-12	YES	
<b>DM006 MULTI-MISSION SSA/CWI MICROWAVE TUBES</b>										
MULTI-MISSION SSA/CWI MICROWAVE TUBES EQUIPMENT	1	0.938	NAVSEA	N/A	FP	VARIOUS	OCT-10	APR-12	YES	
<b>DM007 SPY-1D(V) TRANSMITTER UPGRADES</b>										
SPY-1D(V) TRANSMITTER EQUIPMENT	1	4.016	NAVSEA	N/A	FP	RAYTHEON, MASSACHUSETTS	OCT-10	APR-12	YES	
<b>DM008 MULTI-MISSION BMD CAPABILITY</b>										
MULTI-MISSION BMD EQUIPMENT	1	1.764	NAVSEA	N/A	FP	LOCKHEED, MOORESTOWN NJ	OCT-10	APR-12	YES	
<b>DM009 VLS UPGRADES</b>										
VLS EQUIPMENT	1	7.799	NAVSEA	N/A	FP**	*LOCKHEED, BALTIMORE MD	FEB-11	DEC-11	YES	
<b>DM010 FCS STAMO</b>										
FCS STAMO EQUIPMENT	1	2.500	NAVSEA	N/A	FP**	RAYTHEON, MASSACHUSETTS	JUN-10	DEC-11	YES	
<b>DM011 AN/SQQ-89</b>										
AN/SQQ-89 EQUIPMENT	1	7.712	NAVSEA	N/A	FP**	LOCKHEED, SYRACUSE NY	JUN-10	DEC-11	YES	
<b>DM012 CEC</b>										
CEC EQUIPMENT	1	4.319	NAVSEA	N/A	FP**	RAYTHEON, PETERSBURG FL	JUN-10	DEC-11	YES	

**CLASSIFICATION:** UNCLASSIFIED

<b>Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)</b>	Weapon System AEGIS WEAPON SYSTEM	<b>DATE</b> February 2011
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<b>APPROPRIATION/BUDGET ACTIVITY</b> OTHER PROCUREMENT, NAVY/BA 1	<b>P-1 LINE ITEM NOMENCLATURE</b> DDG MOD BLIN: 0900	<b>SUBHEAD</b> 81DM
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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
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FY 2011										
<b>DM001 DDG MODERNIZATION HM&amp;E</b>										
GEDMS EQUIPMENT	3	5.074	DAHLGREN	N/A	FP	BOEING, ANAHEIM	AUG-11	DEC-12		
MCS/DCS EQUIPMENT	3	3.608	NAVSEA	N/A	FP	LOCKHEED MARTIN	AUG-11	DEC-12		
DVSS EQUIPMENT	3	0.214	NAVSEA	N/A	FP	NSWC SSES	AUG-11	DEC-12		
WIRELESS COMMUNICATIONS EQUIPMENT	3	0.404	NAVSEA	N/A	FP	NSWC CRANE	AUG-11	DEC-12		
IBS EQUIPMENT	3	3.154	NAVSEA	N/A	FP	NORTHROP GRUMMAN SPERRY	AUG-11	DEC-12		
<b>DM003 MK 160 MOD X GWS</b>										
MK 160 MOD X GWS EQUIPMENT	2	2.815	NAVSEA	N/A	FP**	VARIOUS	JUN-11	DEC-12	YES	
<b>DM004 AWS UPGRADE</b>										
AWS EQUIPMENT	2	20.382	NAVSEA	N/A	FP**	LOCKHEED, MOORESTOWN NJ	APR-11	DEC-12	YES	
<b>DM005 MULTI-MISSION SIGPRO</b>										
MULTI-MISSION SIGPRO EQUIPMENT	2	15.689	NAVSEA	N/A	FP	LOCKHEED, MOORESTOWN NJ	SEP-11	MAR-13	YES	
<b>DM006 MULTI-MISSION SSA/CWI MICROWAVE TUBES</b>										
MULTI-MISSION SSA/CWI MICROWAVE TUBES EQUIPMENT	2	0.952	NAVSEA	N/A	FP	VARIOUS	SEP-11	MAR-13	YES	
<b>DM007 SPY-1D(V) TRANSMITTER UPGRADES</b>										
SPY-1D(V) TRANSMITTER EQUIPMENT	2	4.088	NAVSEA	N/A	FP	RAYTHEON, MASSACHUSETTS	SEP-11	MAR-13	YES	
<b>DM008 MULTI-MISSION BMD CAPABILITY</b>										
MULTI-MISSION BMD EQUIPMENT	2	1.796	NAVSEA	N/A	FP	LOCKHEED, MOORESTOWN NJ	SEP-11	MAR-13	YES	
<b>DM009 VLS UPGRADES</b>										
VLS EQUIPMENT	2	7.939	NAVSEA	N/A	FP**	LOCKHEED, BALTIMORE MD	JUN-11	DEC-12	YES	
<b>DM010 FCS STAMO</b>										
FCS STAMO EQUIPMENT	2	2.545	NAVSEA	N/A	FP**	RAYTHEON, MASSACHUSETTS	JUN-11	DEC-12	YES	
<b>DM011 AN/SQQ-89</b>										
AN/SQQ-89 EQUIPMENT	2	7.851	NAVSEA	N/A	FP**	LOCKHEED, SYRACUSE NY	JUN-11	DEC-12	YES	
<b>DM012 CEC</b>										
CEC EQUIPMENT	2	4.397	NAVSEA	N/A	FP**	RAYTHEON, PETERSBURG FL	JUN-11	DEC-12	YES	

<b>CLASSIFICATION:</b>				<b>UNCLASSIFIED</b>							
<b>Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)</b>					Weapon System AEGIS WEAPON SYSTEM				<b>DATE</b> February 2011		
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>					<b>P-1 LINE ITEM NOMENCLATURE</b> <b>DDG MOD</b> <b>BLIN: 0900</b>				<b>SUBHEAD</b> <b>81DM</b>		
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
<b>FY 2012</b>											
<b>DM001 DDG MODERNIZATION HM&amp;E</b>											
GEDMS EQUIPMENT		2	5.165	DAHLGREN	N/A	FP	BOEING, ANAHEIM	AUG-12	DEC-13		
MCS/DCS EQUIPMENT		2	3.673	NAVSEA	N/A	FP	LOCKHEED MARTIN	AUG-12	DEC-13		
DVSS EQUIPMENT		2	0.218	NAVSEA	N/A	FP	NSWC SSES	AUG-12	DEC-13		
WIRELESS COMMUNICATIONS EQUIPMENT		1	0.411	NAVSEA	N/A	FP	NSWC CRANE	AUG-12	DEC-13		
IBS EQUIPMENT		2	3.211	NAVSEA	N/A	FP	NORTHROP GRUMMAN SPERRY	AUG-12	DEC-13		
Remarks: **Award and First Delivery Dates for similar Combat System procurements are based upon the first modernization of either a CG or DDG in a given year.											
*The FY10 VLS equipment will award in FEB FY11. Due to late contract award, the vendor is executing an aggressive production schedule to meet equipment delivery time lines.											

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED DM001 DDG MODERNIZATION HM&E GEDMS EQUIPMENT	TYPE MODIFICATION:	MODIFICATION TITLE: DDG MOD
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DESCRIPTION/JUSTIFICATION:  
Procure and Install GEDMS for DDG Modernization.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN( IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<b>PROCUREMENT</b>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	5	24.3	2	10.0	3	15.2	2	10.3	3	15.8	3	16.1	3	16.3	3	16.6	4	22.7	28	147.3	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST		1.7	2	5.6	3	7.0	2	5.8	3	7.4	2	6.2	3	8.2	3	8.5	10	26.4	28	76.8	
<b><i>TOTAL PROCUREMENT</i></b>		26.0		15.6		22.2		16.1		23.2		22.3		24.5		25.1		49.1		224.1	

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED DDG MODERNIZATION HM&E GEDMS EQUIPMENT	MODIFICATION TITLE: DDG MOD
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: 6 Months      PRODUCTION LEADTIME: 16 Months

CONTRACT DATES:      FY 2010: SEP-10      FY 2011: AUG-11      FY 2012: AUG-12

DELIVERY DATES:      FY 2010: JAN-12      FY 2011: DEC-12      FY 2012: DEC-13

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	PRIOR YEARS		1.7	2	5.4	3	5.3														5
FY 2010 EQUIPMENT			DSA	0.2	DSA	1.3	2	3.5												2	5.0
FY 2011 EQUIPMENT					DSA	0.4	DSA	2.1	3	5.6										3	8.1
FY 2012 EQUIPMENT							DSA	0.2	DSA	1.4	2	3.8								2	5.4
FY 2013 EQUIPMENT									DSA	0.4	DSA	2.0	3	5.6						3	8.0
FY 2014 EQUIPMENT											DSA	0.4	DSA	2.2	3	5.9				3	8.5
FY 2015 EQUIPMENT												DSA	0.4	DSA	2.2	3	6.0			3	8.6
FY 2016 EQUIPMENT														DSA	0.4	3	8.4			3	8.8
TO COMPLETE																4	12.0			4	12.0

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	1	1	0	1	1	1	0	1	0	1	0	2	1	0	0	2	0	0	2	0	1	0	2	1	0	10	28	
Out	0	0	0	0	0	1	1	0	1	1	1	0	1	0	1	1	1	1	0	0	2	0	0	2	1	0	1	1	11	28	

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

Total lead time is 22 months which includes Administrative lead time (6 months) and Production lead time (16 months). Administrative lead time includes receipt of funds, document development, contracts review, comptroller review, and vendor concurrence. Hull, Mechanical, and Electrical (HM&E) production lead times are based on contractual requirements.

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED DM001 DDG MODERNIZATION HM&E MCS/DCS EQUIPMENT	TYPE MODIFICATION:	MODIFICATION TITLE: DDG MOD
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DESCRIPTION/JUSTIFICATION:  
Procure and Install MCS/DCS for DDG Modernization.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<i>FINANCIAL PLAN( IN MILLIONS)</i>																				
<i>RDT&amp;E</i>																				
<b>PROCUREMENT</b>																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	5	17.3	2	7.1	3	10.8	2	7.3	3	11.2	3	11.4	3	11.6	3	11.8	4	16.1	28	104.6
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST		4.4	2	10.9	3	12.5	2	11.3	3	13.4	2	12.0	3	15.3	3	16.6	10	49.9	28	146.3
<b><i>TOTAL PROCUREMENT</i></b>		21.7		18.0		23.3		18.6		24.6		23.4		26.9		28.4		66.0		250.9



**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED DDG MODERNIZATION HM&E MCS/DCS EQUIPMENT	MODIFICATION TITLE: DDG MOD
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: 6 Months      PRODUCTION LEADTIME: 16 Months

CONTRACT DATES:      FY 2010: SEP-10      FY 2011: AUG-11      FY 2012: AUG-12

DELIVERY DATES:      FY 2010: JAN-12      FY 2011: DEC-12      FY 2012: DEC-13

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS		4.4	2	10.4	3	8.6													5
FY 2010 EQUIPMENT			DSA	0.5	DSA	3.1	2	5.8											2	9.4
FY 2011 EQUIPMENT					DSA	0.8	DSA	5.0	3	9.3									3	15.1
FY 2012 EQUIPMENT							DSA	0.5	DSA	3.4	2	6.2							2	10.1
FY 2013 EQUIPMENT									DSA	0.7	DSA	5.0	3	9.2					3	14.9
FY 2014 EQUIPMENT											DSA	0.8	DSA	5.3	3	10.4			3	16.5
FY 2015 EQUIPMENT												DSA	0.8	DSA	5.4	3	10.5		3	16.7
FY 2016 EQUIPMENT														DSA	0.8	3	16.2		3	17.0
TO COMPLETE																4	23.2		4	23.2

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	1	1	0	1	1	1	0	1	0	1	0	2	1	0	0	2	0	0	2	0	1	0	2	1	0	10	28	
Out	0	0	0	0	0	1	1	0	1	1	1	0	1	0	1	1	1	1	0	0	2	0	0	2	1	0	1	1	11	28	

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

Total lead time is 22 months which includes Administrative lead time (6 months) and Production lead time (16 months). Administrative lead time includes receipt of funds, document development, contracts review, comptroller review, and vendor concurrence. Hull, Mechanical, and Electrical (HM&E) production lead times are based on contractual requirements.

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED DM001 DDG MODERNIZATION HM&E DVSS EQUIPMENT	TYPE MODIFICATION:	MODIFICATION TITLE: DDG MOD
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DESCRIPTION/JUSTIFICATION:  
Procure and Install DVSS for DDG Modernization.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<i>FINANCIAL PLAN( IN MILLIONS)</i>																				
<i>RDT&amp;E</i>																				
<u>PROCUREMENT</u>																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	5	1.0	2	0.4	3	0.6	2	0.4	3	0.7	3	0.7	3	0.7	3	0.7	4	1.0	28	6.2
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST		0.6	2	2.2	3	2.9	2	2.3	3	3.1	2	2.5	3	3.4	3	3.5	10	11.0	28	31.5
<u>TOTAL PROCUREMENT</u>		1.6		2.6		3.5		2.7		3.8		3.2		4.1		4.2		12.0		37.7

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED DDG MODERNIZATION HM&E DVSS EQUIPMENT	MODIFICATION TITLE: DDG MOD
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: 6 Months      PRODUCTION LEADTIME: 16 Months

CONTRACT DATES:      FY 2010: SEP-10      FY 2011: AUG-11      FY 2012: AUG-12

DELIVERY DATES:      FY 2010: JAN-12      FY 2011: DEC-12      FY 2012: DEC-13

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	PRIOR YEARS		0.6	2	2.1	3	2.3														5
FY 2010 EQUIPMENT			DSA	0.1	DSA	0.4	2	1.6												2	2.1
FY 2011 EQUIPMENT					DSA	0.2	DSA	0.6	3	2.5										3	3.3
FY 2012 EQUIPMENT							DSA	0.1	DSA	0.4	2	1.7								2	2.2
FY 2013 EQUIPMENT									DSA	0.2	DSA	0.6	3	2.5						3	3.3
FY 2014 EQUIPMENT											DSA	0.2	DSA	0.7	3	2.6				3	3.5
FY 2015 EQUIPMENT												DSA	0.2	DSA	0.7	3	2.7			3	3.6
FY 2016 EQUIPMENT														DSA	0.2	3	3.4			3	3.6
TO COMPLETE																4	4.9			4	4.9

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	1	1	0	1	1	1	0	1	0	1	0	2	1	0	0	2	0	0	2	0	1	0	2	1	0	10	28	
Out	0	0	0	0	0	1	1	0	1	1	1	0	1	0	1	1	1	1	0	0	2	0	0	2	1	0	1	1	11	28	

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

Total lead time is 22 months which includes Administrative lead time (6 months) and Production lead time (16 months). Administrative lead time includes receipt of funds, document development, contracts review, comptroller review, and vendor concurrence. Hull, Mechanical, and Electrical (HM&E) production lead times are based on contractual requirements.

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED DM001 DDG MODERNIZATION HM&E WIRELESS COMMUNICATIONS EQUIPMENT	TYPE MODIFICATION:	MODIFICATION TITLE: DDG MOD
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DESCRIPTION/JUSTIFICATION:  
Procure and Install Wireless Communications Upgrade for DDG Modernization.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<i>FINANCIAL PLAN( IN MILLIONS)</i>																				
<i>RDT&amp;E</i>																				
<u>PROCUREMENT</u>																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	3	1.2	2	0.8	3	1.2	1	0.4	2	0.8	3	1.3	3	1.3	3	1.3	4	1.8	24	10.1
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST		0.3	1	0.9	2	1.5	2	1.8	3	2.1	1	1.1	2	1.9	3	2.5	10	7.6	24	19.7
<u>TOTAL PROCUREMENT</u>		1.5		1.7		2.7		2.2		2.9		2.4		3.2		3.8		9.4		29.8

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

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

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: 6 Months      PRODUCTION LEADTIME: 16 Months

CONTRACT DATES:      FY 2010: SEP-10      FY 2011: AUG-11      FY 2012: AUG-12

DELIVERY DATES:      FY 2010: JAN-12      FY 2011: DEC-12      FY 2012: DEC-13

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS		0.3	1	0.8	2	1.1													3
FY 2010 EQUIPMENT			DSA	0.1	DSA	0.3	2	1.1											2	1.5
FY 2011 EQUIPMENT					DSA	0.1	DSA	0.6	3	1.8									3	2.5
FY 2012 EQUIPMENT							DSA	0.1	DSA	0.2	1	0.6							1	0.9
FY 2013 EQUIPMENT									DSA	0.1	DSA	0.4	2	1.2					2	1.7
FY 2014 EQUIPMENT											DSA	0.1	DSA	0.6	3	1.8			3	2.5
FY 2015 EQUIPMENT												DSA	0.1	DSA	0.6	3	1.8		3	2.5
FY 2016 EQUIPMENT															DSA	0.1	3	2.4	3	2.5
TO COMPLETE																	4	3.4	4	3.4

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	1	0	1	1	0	0	1	0	1	0	2	1	0	0	1	0	0	1	0	1	0	2	1	0	10	24	
Out	0	0	0	0	0	1	0	0	1	1	0	0	1	0	1	1	1	1	0	0	1	0	0	1	1	0	1	1	11	24	

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

Total lead time is 22 months which includes Administrative lead time (6 months) and Production lead time (16 months). Administrative lead time includes receipt of funds, document development, contracts review, comptroller review, and vendor concurrence. Hull, Mechanical, and Electrical (HM&E) production lead times are based on contractual requirements.

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED DM001 DDG MODERNIZATION HM&E IBS EQUIPMENT	TYPE MODIFICATION:	MODIFICATION TITLE: DDG MOD
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DESCRIPTION/JUSTIFICATION:  
Procure and Install IBS for DDG Modernization.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<i>FINANCIAL PLAN( IN MILLIONS)</i>																				
<i>RDT&amp;E</i>																				
<b>PROCUREMENT</b>																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	5	15.1	2	6.2	3	9.5	2	6.4	3	9.8	3	10.0	3	10.2	3	10.3	4	14.1	28	91.6
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST		1.9	2	5.2	3	5.9	2	5.4	3	6.3	2	5.8	3	7.3	3	7.6	10	22.6	28	68.0
<b><i>TOTAL PROCUREMENT</i></b>		17.0		11.4		15.4		11.8		16.1		15.8		17.5		17.9		36.7		159.6

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED DDG MODERNIZATION HM&E IBS EQUIPMENT	MODIFICATION TITLE: DDG MOD
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: 6 Months      PRODUCTION LEADTIME: 16 Months

CONTRACT DATES:      FY 2010: SEP-10      FY 2011: AUG-11      FY 2012: AUG-12

DELIVERY DATES:      FY 2010: JAN-12      FY 2011: DEC-12      FY 2012: DEC-13

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS		1.9	2	5.0	3	4.0													5
FY 2010 EQUIPMENT			DSA	0.2	DSA	1.5	2	2.7											2	4.4
FY 2011 EQUIPMENT					DSA	0.4	DSA	2.5	3	4.3									3	7.2
FY 2012 EQUIPMENT							DSA	0.2	DSA	1.7	2	2.9							2	4.8
FY 2013 EQUIPMENT									DSA	0.3	DSA	2.5	3	4.2					3	7.0
FY 2014 EQUIPMENT											DSA	0.4	DSA	2.7	3	4.5			3	7.6
FY 2015 EQUIPMENT												DSA	0.4	DSA	2.7	3	4.6		3	7.7
FY 2016 EQUIPMENT															DSA	0.4	3	7.4	3	7.8
TO COMPLETE																	4	10.6	4	10.6

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	1	1	0	1	1	1	0	1	0	1	0	2	1	0	0	2	0	0	2	0	1	0	2	1	0	10	28	
Out	0	0	0	0	0	1	1	0	1	1	1	0	1	0	1	1	1	1	0	0	2	0	0	2	1	0	1	1	11	28	

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

Total lead time is 22 months which includes Administrative lead time (6 months) and Production lead time (16 months). Administrative lead time includes receipt of funds, document development, contracts review, comptroller review, and vendor concurrence. Hull, Mechanical, and Electrical (HM&E) production lead times are based on contractual requirements.

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED DM003 MK 160 MOD X GWS MK 160 MOD X GWS EQUIPMENT	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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN( IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<b>PROCUREMENT</b>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT			1	2.8	2	5.6			3	8.8	2	5.9	5	15.1	3	9.2	12	44.9	28	92.3	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST			DSA	0.1	DSA	0.2	1	0.8	2	1.4	1	0.8	2	1.4	2	1.7	20	14.7	28	21.1	
<b><i>TOTAL PROCUREMENT</i></b>				2.9		5.8		0.8		10.2		6.7		16.5		10.9		59.6		113.4	



**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED MK 160 MOD X GWS MK 160 MOD X GWS EQUIPMENT	MODIFICATION TITLE: DDG MOD
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: 6 Months      PRODUCTION LEADTIME: 18 Months

CONTRACT DATES:      FY 2010: JUN-10      FY 2011: JUN-11      FY 2012:

DELIVERY DATES:      FY 2010: DEC-11      FY 2011: DEC-12      FY 2012:

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
	PRIOR YEARS																					
FY 2010 EQUIPMENT			DSA	0.1	DSA	0.1	1	0.6													1	0.8
FY 2011 EQUIPMENT					DSA	0.1	DSA	0.1	2	1.2											2	1.4
FY 2012 EQUIPMENT																						
FY 2013 EQUIPMENT									DSA	0.1	DSA	0.2	1	0.7	2	1.2					3	2.2
FY 2014 EQUIPMENT													DSA	0.1	DSA	0.1	2	1.3			2	1.5
FY 2015 EQUIPMENT															DSA	0.1	DSA	0.3	5	3.2	5	3.6
FY 2016 EQUIPMENT																	DSA	0.1	3	2.2	3	2.3
TO COMPLETE																			12	9.3	12	9.3

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	1	0	0	0	1	1	0	0	0	1	0	1	1	0	0	0	0	2	20	28
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	1	1	0	0	22	28

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

Total lead time is 24 months which includes Administrative lead time (6 months) and Production lead time (18 months). Administrative lead time includes receipt of funds, document development, contracts review, comptroller review, and vendor concurrence.

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED DM004 AWS UPGRADE AWS EQUIPMENT	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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<i>FINANCIAL PLAN( IN MILLIONS)</i>																				
<i>RDT&amp;E</i>																				
<u>PROCUREMENT</u>																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT			1	20.0	2	40.8			3	63.4	2	43.0	5	109.4	3	66.8	12	464.6	28	808.0
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST			DSA	0.5	DSA	2.4	1	13.8	2	23.8	1	14.9	2	27.8	2	31.5	20	269.3	28	384.0
<u>TOTAL PROCUREMENT</u>				20.5		43.2		13.8		87.2		57.9		137.2		98.3		733.9		1,192.0

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED AWS UPGRADE AWS EQUIPMENT	MODIFICATION TITLE: DDG MOD
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: 6 Months      PRODUCTION LEADTIME: 20 Months

CONTRACT DATES:      FY 2010: APR-10      FY 2011: APR-11      FY 2012:

DELIVERY DATES:      FY 2010: DEC-11      FY 2011: DEC-12      FY 2012:

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	PRIOR YEARS																				
FY 2010 EQUIPMENT			DSA	0.5	DSA	1.4	1	10.5												1	12.4
FY 2011 EQUIPMENT					DSA	1.0	DSA	2.8	2	21.4									2	25.2	
FY 2012 EQUIPMENT																					
FY 2013 EQUIPMENT							DSA	0.5	DSA	2.4	1	13.8	2	22.2					3	38.9	
FY 2014 EQUIPMENT											DSA	1.1	DSA	2.9	2	22.5			2	26.5	
FY 2015 EQUIPMENT													DSA	2.7	DSA	7.4	5	57.4	5	67.5	
FY 2016 EQUIPMENT															DSA	1.6	3	39.6	3	41.2	
TO COMPLETE																	12	####	12	172.3	

**INSTALLATION SCHEDULE**

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	1	0	0	0	1	1	0	0	0	1	0	1	1	0	0	0	0	2	20	28
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	1	1	0	0	22	28

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

Total lead time is 26 months which includes Administrative lead time (6 months) and Production lead time (20 months). The Production lead time includes a 4 month Backfit Production Test Facility risk reduction effort. Administrative lead time includes receipt of funds, document development, contracts review, comptroller review, and vendor concurrence.

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED DM005 MULTI-MISSION SIGPRO MULTI-MISSION SIGPRO EQUIPMENT	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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<i>FINANCIAL PLAN( IN MILLIONS)</i>																				
<i>RDT&amp;E</i>																				
<b>PROCUREMENT</b>																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT			1	15.4	2	31.4			3	48.8	2	33.1	5	84.2	3	51.5	12	254.3	28	518.7
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST			DSA	0.1	DSA	0.5	1	4.1	2	7.5	1	4.4	2	8.3	2	9.1	20	83.2	28	117.2
<b><i>TOTAL PROCUREMENT</i></b>				15.5		31.9		4.1		56.3		37.5		92.5		60.6		337.5		635.9

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

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

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: 6 Months      PRODUCTION LEADTIME: 18 Months

CONTRACT DATES:      FY 2010: OCT-10      FY 2011: SEP-11      FY 2012:

DELIVERY DATES:      FY 2010: APR-12      FY 2011: MAR-13      FY 2012:

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
	PRIOR YEARS																					
FY 2010 EQUIPMENT			DSA	0.1	DSA	0.3	1	3.5													1	3.9
FY 2011 EQUIPMENT					DSA	0.2	DSA	0.5	2	7.0											2	7.7
FY 2012 EQUIPMENT																						
FY 2013 EQUIPMENT									DSA	0.1	DSA	0.5	1	4.2	2	7.2					3	12.0
FY 2014 EQUIPMENT													DSA	0.2	DSA	0.6	2	7.3			2	8.1
FY 2015 EQUIPMENT															DSA	0.5	DSA	1.5	5	18.5	5	20.5
FY 2016 EQUIPMENT																	DSA	0.3	3	12.2	3	12.5
TO COMPLETE																			12	52.5	12	52.5

**INSTALLATION SCHEDULE**

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	1	0	0	0	1	1	0	0	0	1	0	1	1	0	0	0	0	2	20	28
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	1	1	0	0	22	28

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

Total lead time is 24 months which includes Administrative lead time (6 months) and Production lead time (18 months). Administrative lead time includes receipt of funds, document development, contracts review, comptroller review, and vendor concurrence.

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED DM009 VLS UPGRADES VLS EQUIPMENT	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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<i>FINANCIAL PLAN( IN MILLIONS)</i>																				
<i>RDT&amp;E</i>																				
<b>PROCUREMENT</b>																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT																				
			1	7.8	2	15.9			3	24.7	2	16.8	5	42.6	3	26.0	12	126.6	28	260.4
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST																				
			DSA	0.1	DSA	0.4	1	1.3	2	2.1	1	1.4	2	2.6	2	3.0	20	22.9	28	33.8
<b><i>TOTAL PROCUREMENT</i></b>																				
				7.9		16.3		1.3		26.8		18.2		45.2		29.0		149.5		294.2

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED VLS UPGRADES VLS EQUIPMENT	MODIFICATION TITLE: DDG MOD
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: 6 Months      PRODUCTION LEADTIME: 18 Months

CONTRACT DATES:		FY 2010:	FEB-11	FY 2011:	JUN-11	FY 2012:	
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DELIVERY DATES:		FY 2010:	DEC-11	FY 2011:	DEC-12	FY 2012:	
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	PRIOR YEARS																				
FY 2010 EQUIPMENT			DSA	0.1	DSA	0.2	1	0.8												1	1.1
FY 2011 EQUIPMENT					DSA	0.2	DSA	0.4	2	1.6										2	2.2
FY 2012 EQUIPMENT																					
FY 2013 EQUIPMENT							DSA	0.1	DSA	0.5	1	1.2	2	1.7						3	3.5
FY 2014 EQUIPMENT											DSA	0.2	DSA	0.4	2	1.7				2	2.3
FY 2015 EQUIPMENT													DSA	0.5	DSA	1.0	5	4.4		5	5.9
FY 2016 EQUIPMENT															DSA	0.3	3	3.3		3	3.6
TO COMPLETE																	12	15.2		12	15.2

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	1	0	0	0	1	1	0	0	0	1	0	1	1	0	0	0	0	2	20	28
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	1	1	0	0	22	28

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

Total lead time is 24 months which includes Administrative lead time (6 months) and Production lead time (18 months). Administrative lead time includes receipt of funds, document development, contracts review, comptroller review, and vendor concurrence.

\*The FY10 VLS equipment will award in FEB FY11. Due to late contract award, the vendor is executing an aggressive production schedule to meet equipment delivery time lines.

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED DM010 FCS STAMO FCS STAMO EQUIPMENT	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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN( IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<b>PROCUREMENT</b>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT																					
			1	2.5	2	5.1			3	7.9	2	5.4	5	13.7	3	8.3	12	40.6	28	83.5	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST																					
			DSA	0.1	DSA	0.2	1	0.4	2	0.6	1	0.4	2	0.6	2	0.7	20	4.8	28	7.8	
<b><i>TOTAL PROCUREMENT</i></b>																					
				2.6		5.3		0.4		8.5		5.8		14.3		9.0		45.4		91.3	



**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED FCS STAMO FCS STAMO EQUIPMENT	MODIFICATION TITLE: DDG MOD
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: 6 Months      PRODUCTION LEADTIME: 18 Months

CONTRACT DATES:      FY 2010: JUN-10      FY 2011: JUN-11      FY 2012:

DELIVERY DATES:      FY 2010: DEC-11      FY 2011: DEC-12      FY 2012:

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
	PRIOR YEARS																					
FY 2010 EQUIPMENT			DSA	0.1	DSA	0.1	1	0.2													1	0.4
FY 2011 EQUIPMENT					DSA	0.1	DSA	0.1	2	0.4											2	0.6
FY 2012 EQUIPMENT																						
FY 2013 EQUIPMENT							DSA	0.1	DSA	0.2	1	0.3	2	0.4							3	1.0
FY 2014 EQUIPMENT											DSA	0.1	DSA	0.1	2	0.4					2	0.6
FY 2015 EQUIPMENT													DSA	0.1	DSA	0.2	5	1.0			5	1.3
FY 2016 EQUIPMENT															DSA	0.1	3	0.7			3	0.8
TO COMPLETE																	12	3.1			12	3.1

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	1	0	0	0	1	1	0	0	0	1	0	1	1	0	0	0	0	2	20	28
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	1	1	0	0	22	28

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

Total lead time is 24 months which includes Administrative lead time (6 months) and Production lead time (18 months). Administrative lead time includes receipt of funds, document development, contracts review, comptroller review, and vendor concurrence.

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN( IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<b>PROCUREMENT</b>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT																					
			1	7.7	2	15.7			3	24.4	2	16.6	5	42.2	3	25.8	12	125.2	28	257.6	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST																					
			DSA	0.2	DSA	0.9	1	5.3	2	9.2	1	5.6	2	10.4	2	11.8	20	101.4	28	144.8	
<b><i>TOTAL PROCUREMENT</i></b>																					
				7.9		16.6		5.3		33.6		22.2		52.6		37.6		226.6		402.4	

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED AN/SQQ-89 AN/SQQ-89 EQUIPMENT	MODIFICATION TITLE: DDG MOD
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: 6 Months      PRODUCTION LEADTIME: 18 Months

CONTRACT DATES:		FY 2010:	JUN-10	FY 2011:	JUN-11	FY 2012:	
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DELIVERY DATES:		FY 2010:	DEC-11	FY 2011:	DEC-12	FY 2012:	
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL				
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$			
	PRIOR YEARS																						
FY 2010 EQUIPMENT			DSA	0.2	DSA	0.5	1	4.1												1	4.8		
FY 2011 EQUIPMENT					DSA	0.4	DSA	1.0	2	8.3										2	9.7		
FY 2012 EQUIPMENT																							
FY 2013 EQUIPMENT							DSA	0.2	DSA	0.9	1	5.2	2	8.4							3	14.7	
FY 2014 EQUIPMENT											DSA	0.4	DSA	1.0	2	8.6					2	10.0	
FY 2015 EQUIPMENT													DSA	1.0	DSA	2.6	3	21.8			3	25.4	
FY 2016 EQUIPMENT																DSA	0.6	3	14.9			3	15.5
TO COMPLETE																		12	64.7			12	64.7

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	1	0	0	0	1	1	0	0	0	1	0	1	1	0	0	0	0	2	20	28
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	1	1	0	0	22	28

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

Total lead time is 24 months which includes Administrative lead time (6 months) and Production lead time (18 months). Administrative lead time includes receipt of funds, document development, contracts review, comptroller review, and vendor concurrence.

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED DM012 CEC CEC EQUIPMENT	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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<i>FINANCIAL PLAN( IN MILLIONS)</i>																				
<i>RDT&amp;E</i>																				
<b>PROCUREMENT</b>																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT			1	4.3	2	8.8			3	13.7	2	9.3	5	23.6	3	14.4	12	70.1	28	144.2
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST			DSA	0.2	DSA	0.9	1	2.7	2	4.0	1	3.0	2	5.3	2	6.5	20	45.3	28	67.9
<b><i>TOTAL PROCUREMENT</i></b>				4.5		9.7		2.7		17.7		12.3		28.9		20.9		115.4		212.1

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED CEC CEC EQUIPMENT	MODIFICATION TITLE: DDG MOD
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: 6 Months      PRODUCTION LEADTIME: 18 Months

CONTRACT DATES:      FY 2010: JUN-10      FY 2011: JUN-11      FY 2012:

DELIVERY DATES:      FY 2010: DEC-11      FY 2011: DEC-12      FY 2012:

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
	PRIOR YEARS																					
FY 2010 EQUIPMENT			DSA	0.2	DSA	0.5	1	1.5													1	2.2
FY 2011 EQUIPMENT					DSA	0.4	DSA	1.0	2	3.1											2	4.5
FY 2012 EQUIPMENT																						
FY 2013 EQUIPMENT									DSA	0.2	DSA	0.9	1	2.6	2	3.2					3	6.9
FY 2014 EQUIPMENT													DSA	0.4	DSA	1.0	2	3.3			2	4.7
FY 2015 EQUIPMENT															DSA	1.1	DSA	2.6	5	8.3	5	12.0
FY 2016 EQUIPMENT																	DSA	0.6	3	6.6	3	7.2
TO COMPLETE																			12	30.4	12	30.4

**INSTALLATION SCHEDULE**

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	1	0	0	0	1	1	0	0	0	1	0	1	1	0	0	0	0	2	20	28
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	1	1	0	0	22	28

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

Total lead time is 24 months which includes Administrative lead time (6 months) and Production lead time (18 months). Administrative lead time includes receipt of funds, document development, contracts review, comptroller review, and vendor concurrence.

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>												
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION</b>											DATE February 2011			
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>						P-1 LINE ITEM NOMENCLATURE FIREFIGHTING EQUIPMENT <b>SUBHEAD NO. 81HB BLI: 0910</b>								
Program Element for Code B Items						Other Related Program Elements								
	Prior Years	ID Code		FY 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total
Quantity	0			0	0	0	0	0	0	0	0	0	0	0
COST ( In Millions)	145.1	A		11.4	12.0	17.6	0.0	17.6	26.7	20.5	17.4	19.8	127.9	398.4
SPARES COST ( In Millions)	0.1	0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>														
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. Lessons learned from shipboard fires have emphasized the urgent need to upgrade features and design standards that contribute to survivability.														
<b>HB002 - MAGAZINE SPRINKLING IMPROVEMENT</b>														
Replaces the detection system designed in the 1960s, which performs poorly and is difficult to support and maintain.														
<b>HB003 - BREATHING APPARATUS REPLACEMENT</b>														
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; (2) emergency escape breathing devices (EEBD), and (3) self-contained breathing apparatus (SCBA) for firefighters. The cost varies based on ship type. Units of EEBD and SCBA are quantity of ships; number of breathing apparatus varies by ship. SCBA cost in FY11 includes cost to replace equipment at fleet training centers.														
<b>HB004 - CARBON MONOXIDE MONITOR</b>														
Funding is for procurement of carbon monoxide monitors for breathing apparatus portable compressors, as required by 29CFR1910.134B OPAVINST 5100.19E Para B0611. There is no installation associated with this replacement. One monitor is required for each portable compressor in service. The quantity is representative of the total number of monitors not ships. The number of monitors per ship varies by ship class.														
<b>HB005 - AQUEOUS FILM-FORMING FOAM (AFFF)</b>														
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. Equipment changed to contractor furnished in FY10 due to administrative issues with contracting activity.														
<b>HB007 - REPLACE SOLENOID-OPERATED PILOT VALVE (SOPV)</b>														
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 ensure these systems are operational for emergencies. Top Management Attention/Top Management Initiative (TMA/TMI) and INSURV interest due to impact of this item on AFFF system operation. The requirement is for all surface ships. The FY11 cost is for two first articles and first article testing. Units in FY 12 and out are quantity of ships; number for SOPV's replaced varies by ship.														

<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> FIREFIGHTING EQUIPMENT <b>SUBHEAD NO. 81HB BLI: 0910</b>	
<p><b>HB008 - BREATHING APPARATUS</b> The firefighter's Self-Contained Breathing Apparatus (SCBA) (HB008) 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 176. Unit cost varies. 32 LCU crafts were added to the prior inventory objective of 144. Installation funds in FY10 are provided for the LCUs. Equipment for LCU's was obtained from decommissioned ships and re-certified for use.</p> <p><b>HB009 - FIREFIGHTER ACCESS</b> 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, and LHD-5 and follow, during construction. Units are quantity of ships; equipment cost varies by ship. Cost in FY11 includes equipment for fleet training centers.</p> <p><b>HB830 - PRODUCTION ENGINEERING</b> Development of technical manuals, Planned Maintenance System (PMS), Provisioning Technical documentation (PTD), Program Support Data (PSD) and Allowance Parts List (APLs); engineering to manage procurement and material, and in support of design reviews.</p> <p><b>HB5INS - INSTALLATION OF EQUIPMENT</b> Funding is for installation of equipment for the Fleet Modernization Program installations.</p>		

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>										
<b>EXHIBIT P-5 COST ANALYSIS</b>						Weapon System					DATE February 2011	
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>						ID Code <b>A</b>		P-1 LINE ITEM NOMENCLATURE <b>FIREFIGHTING EQUIPMENT SUBHEAD NO. 81HB</b>				
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010			FY 2011			FY 2012		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<u><b>EQUIPMENT</b></u>											
<b>HB002</b>	MAGAZINE SPRINKLING IMPROVEMENT	A	0.000	0	0.000	0.000	0	0.000	0.000	4	0.164	0.655
<b>HB003</b>	CONFINED-SPACE ENTRY BREATHING APPARATUS		0.000	55	0.023	1.262	48	0.023	1.100	0	0.000	0.000
<b>HB003</b>	EMERGENCY ESCAPE BREATHING DEVICES (EEBD)		0.000	0	0.000	0.000	3	0.266	0.798	13	0.350	4.551
<b>HB003</b>	SELF-CONTAINED BREATHING APPARATUS (SCBA)		0.000	0	0.000	0.000	9	0.317	2.855	11	0.464	5.108
<b>HB004</b>	CARBON MONOXIDE MONITOR	A	0.000	0	0.000	0.000	0	0.000	0.000	452	0.005	2.082
<b>HB005</b>	<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	1.085	3	0.130	0.390	0	0.000	0.000	0	0.000	0.000
<b>HB007</b>	SOPV REPLACEMENT		0.000	0	0.000	0.000	2	0.100	0.200	5	0.032	0.160
<b>HB008</b>	BREATHING APPARATUS	A	67.192	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
<b>HB009</b>	FIREFIGHTER ACCESS	A	0.670	10	0.059	0.586	29	0.057	1.660	4	0.060	0.241
<b>HB830</b>	PRODUCTION ENGINEERING	A	6.379	0	0.000	3.223	0	0.000	2.867	0	0.000	2.436
	<b>TOTAL EQUIPMENT</b>		<b>87.326</b>			<b>5.461</b>			<b>9.480</b>			<b>15.233</b>
	<u><b>INSTALLATION</b></u>											
<b>HBINS</b>	INSTALLATION OF EQUIPMENT	A	57.758	0	0.000	11.388	0	0.000	17.637	0	0.000	1.565
	<b>TOTAL INSTALLATION</b>		<b>57.758</b>			<b>5.927</b>			<b>2.494</b>			<b>2.404</b>
	<b>TOTAL</b>		<b>145.084</b>			<b>11.388</b>			<b>11.974</b>			<b>17.637</b>

**Comment:**

HB003 - Unit quantity for confined space entry was changed to reflect a shipset instead of individual pieces of equipment; there is no change to the equipment being procured or its contract price.



CLASSIFICATION:					UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE February 2011		
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	
<b>FY 2010</b>											
<b>HB003</b> CONFINED-SPACE ENTRY BREATHING APPARATUS	55	0.023	NSWC PCD		IDIQ	SCOTT HEALTH & SAFETY, MONROE, NC	JAN-10	MAR-10	YES		
<b>HB005 AFFF UPGRADES</b> AFFF H2S CONTROL VALVES / H2S MITIGATION	3	0.130	VARIOUS		WR	VARIOUS	NOV-09	JAN-10	YES		
<b>HB009</b> FIREFIGHTER ACCESS	10	0.059	NSWC PCD		IDIQ	SELLSTROM MANUFACTURING, PALATINE, IL	MAR-10	MAY-10	YES		
<b>FY 2011</b>											
<b>HB003</b> CONFINED-SPACE ENTRY BREATHING APPARATUS	48	0.023	NSWC PCD		IDIQ	SCOTT HEALTH & SAFETY, MONROE, NC	NOV-10	FEB-11	YES		
EMERGENCY ESCAPE BREATHING DEVICES (EEBD)	3	0.266	NSWC PCD		GSA	OCENCO, PLEASANT PRAIRIE, WI	JAN-11	APR-11	YES		
SELF-CONTAINED BREATHING APPARATUS (SCBA)	9	0.317	NSWC PCD		GSA	SCOTT HEALTH & SAFETY, MONROE, NC	JAN-11	MAY-11	YES		
<b>HB007</b> SOPV REPLACEMENT	2	0.100	NSWC CD		C/FP	TBD	JUL-11	DEC-11		AUG-10	
<b>HB009</b> FIREFIGHTER ACCESS	29	0.057	NSWC PCD		IDIQ	SELLSTROM MANUFACTURING, PALATINE, IL	JAN-11	APR-11	YES		
<b>FY 2012</b>											
<b>HB002</b> MAGAZINE SPRINKLING IMPROVEMENT	4	0.164	NSWC CD		C/FP	TBD	NOV-11	JUL-12			
<b>HB003</b> EMERGENCY ESCAPE BREATHING DEVICES (EEBD)	13	0.350	NSWC PCD		TBD	TBD	JAN-12	APR-12			
SELF-CONTAINED BREATHING APPARATUS (SCBA)	11	0.464	NSWC PCD		IDIQ	SCOTT HEALTH & SAFETY, MONROE, NC	JAN-12	MAY-12	YES		
<b>HB004</b> CARBON MONOXIDE MONITOR	452	0.005	NSWC PCD		C/FP	TBD	JAN-12	APR-12			
<b>HB007</b> SOPV REPLACEMENT	5	0.032	NSWC CD		C/FP	TBD	JAN-12	MAY-12			

<b>CLASSIFICATION:</b>				<b>UNCLASSIFIED</b>						
<b>Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)</b>					Weapon System				<b>DATE</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>					<b>P-1 LINE ITEM NOMENCLATURE</b> <b>FIREFIGHTING EQUIPMENT</b> <b>BLIN: 0910</b>				<b>SUBHEAD</b> <b>81HB</b>	
<b>COST ELEMENT</b> <b>FISCAL YEAR</b>	<b>Quantity</b>	<b>UNIT</b> <b>COST</b>	<b>LOCATION</b> <b>OF PCO</b>	<b>RFP ISSUE</b> <b>DATE</b>	<b>CONTRACT</b> <b>METHOD</b> <b>&amp; TYPE</b>	<b>CONTRACTOR</b> <b>AND LOCATION</b>	<b>AWARD</b> <b>DATE</b>	<b>DATE OF</b> <b>FIRST</b> <b>DELIVERY</b>	<b>SPEC</b> <b>AVAIL</b> <b>NOW</b>	<b>DATE</b> <b>REVISIONS</b> <b>AVAILABLE</b>
<b>HB009</b> FIREFIGHTER ACCESS	4	0.060	NSWC PCD		IDIQ	SELLSTROM MANUFACTURING, PALATINE, IL	JAN-12	APR-12	YES	

**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. DELIVERY OF EACH SHIP SET IS PLANNED FOR SEVERAL MONTHS IN ADVANCE OF AVAILABILITY START TO REDUCE RISK OF SHIP AVAILABILITY CHANGES.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN( IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<b>PROCUREMENT</b>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT							4	0.7	1	0.2	5	1.2	6	1.4	2	0.4	87	28.1	105	32.0	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER (PRODUCTION ENG)		0.2		0.5		0.5		0.2		0.2		0.4		0.3		0.2		4.0		6.5	
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST							AP	0.5	4	4.1	6	6.5	2	4.1	5	5.1	88	148.6	105	168.9	
<b>TOTAL PROCUREMENT</b>		0.2		0.5		0.5		1.4		4.5		8.1		5.8		5.7		180.7		207.4	

CLASSIFICATION: UNCLASSIFIED											February 2011																				
EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)																															
MODELS OF SYSTEM AFFECTED MAGAZINE SPRINKLING IMPROVEMENT											MODIFICATION TITLE: FIREFIGHTING EQUIPMENT																				
INSTALLATION INFORMATION:																															
METHOD OF IMPLEMENTATION:											SHIPALT																				
ADMINISTRATIVE LEADTIME:											2 Months				PRODUCTION LEADTIME:								8 Months								
CONTRACT DATES:											FY 2010:				FY 2011:				FY 2012:				NOV-11								
DELIVERY DATES:											FY 2010:				FY 2011:				FY 2012:				JUL-12								
(\$ in Millions)																															
COST											Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
											Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty
PRIOR YEARS																															
FY 2010 EQUIPMENT																															
FY 2011 EQUIPMENT																															
FY 2012 EQUIPMENT																															
FY 2013 EQUIPMENT																															
FY 2014 EQUIPMENT																															
FY 2015 EQUIPMENT																															
FY 2016 EQUIPMENT																															
TO COMPLETE																															
INSTALLATION SCHEDULE																															
	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	1	2	1	0	2	3	1	0	1	1	0	1	2	1	1	88	105
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	3	1	0	1	1	0	1	2	1	89	105
Remarks:																															

**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. 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. The "other H2S control valves" line represents installing activity provided equipment. There are 11 ships that are receiving H2S mitigation efforts: 1 ship only requires procurement and install of control valves, 6 ships require procurement and installation of both a Biocide injection system and control valves (12 procurements and installs) and 4 just require procurement and install of Biocide injection systems for a total of 17 procurements and installs.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN( IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<b>PROCUREMENT</b>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	7	1.1	3	0.4																10	1.5
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER PRODUCTION ENG		1.2		0.8		0.2		0.1		0.1											2.4
OTHER H2S CONTROL VALVES	6								1											7	
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	12	8.5	3	2.1	1	0.7			1	0.3										17	11.6
<b>TOTAL PROCUREMENT</b>		10.8		3.3		0.9		0.1		0.4											15.5

CLASSIFICATION: UNCLASSIFIED February 2011

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

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

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 1 Months      PRODUCTION LEADTIME: 2 Months

CONTRACT DATES:	FY 2010:	NOV-09	FY 2011:	FY 2012:
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DELIVERY DATES:	FY 2010:	JAN-10	FY 2011:	FY 2012:
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	12	8.5			1	0.7													13
FY 2010 EQUIPMENT			3	2.1															3	2.1
FY 2011 EQUIPMENT																				
FY 2012 EQUIPMENT																				
FY 2013 EQUIPMENT									1	0.3									1	0.3
FY 2014 EQUIPMENT																				
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL			
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
In	12	1	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Out	11	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17

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 ensure these systems are operational for emergencies. First articles and first articles testing is procured in FY11.

**DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:**

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																				
<u>RDT&amp;E</u>																				
<u>PROCUREMENT</u>																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT					2	0.2	5	0.2	15	0.5	17	0.6	10	0.4	5	0.3	122	7.7	176	9.9
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER PRODUCTION ENG		0.1		0.2		0.2		0.2		0.3		0.3		0.3		0.3		3.0		4.9
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST							5	0.4	15	1.2	17	1.5	10	0.9	5	0.8	122	57.9	174	62.7
<u>TOTAL PROCUREMENT</u>		0.1		0.2		0.4		0.8		2.0		2.4		1.6		1.4		68.6		77.5

CLASSIFICATION: UNCLASSIFIED February 2011

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED SOPV REPLACEMENT	MODIFICATION TITLE: FIREFIGHTING EQUIPMENT
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPALT - AIT

ADMINISTRATIVE LEADTIME: 2 Months      PRODUCTION LEADTIME: 3 Months

CONTRACT DATES:	FY 2010:	FY 2011:	JUL-11	FY 2012:	JAN-12
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DELIVERY DATES:	FY 2010:	FY 2011:	DEC-11	FY 2012:	MAY-12
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	PRIOR YEARS																				
FY 2010 EQUIPMENT																					
FY 2011 EQUIPMENT																					
FY 2012 EQUIPMENT							5	0.4												5	0.4
FY 2013 EQUIPMENT									15	1.2										15	1.2
FY 2014 EQUIPMENT											17	1.5								17	1.5
FY 2015 EQUIPMENT												10	0.9							10	0.9
FY 2016 EQUIPMENT															5	0.8				5	0.8
TO COMPLETE																	122	57.9	122	57.9	

**INSTALLATION SCHEDULE**

	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	0	0	0	0	2	3	0	3	6	6	0	4	7	6	0	2	4	4	0	0	3	2	122	174
Out	0	0	0	0	0	0	0	0	0	0	0	2	3	0	3	6	6	0	4	7	6	0	2	4	4	0	0	3	2	122	174

Remarks: The 2 FY11 procurements are for first article testing and are not installed on a ship.



**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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<i>FINANCIAL PLAN ( IN MILLIONS)</i>																				
<i>RDT&amp;E</i>																				
<i>PROCUREMENT</i>																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	176	67.2																	176	67.2
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER PRODUCTION ENG		0.3		0.4																0.7
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	144	81.8	32	1.7															176	83.5
<b>TOTAL PROCUREMENT</b>		149.3		2.1																151.4

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

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

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: N/A Months      PRODUCTION LEADTIME: N/A Months

CONTRACT DATES:      FY 2010:      FY 2011:      FY 2012:

DELIVERY DATES:      FY 2010:      FY 2011:      FY 2012:

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	144	81.8	32	1.7															176
FY 2010 EQUIPMENT																				
FY 2011 EQUIPMENT																				
FY 2012 EQUIPMENT																				
FY 2013 EQUIPMENT																				
FY 2014 EQUIPMENT																				
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																				

**INSTALLATION SCHEDULE**

	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL		
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
In	144	0	6	6	11	9	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	176
Out	144	0	6	6	11	9	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	176	

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, and LHD-5 and follow, during construction. LHD-1 thru 4 were completed in prior year. Installation does not require CNO availability. Production engineering includes initial training. Equipment for FY13 and FY14 is procured ahead due to equipment contract expiration in FY12. The early procurement avoids cost to re-procure and insures commonality of equipment in the fleet at a warehousing cost of \$1K.

**DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:**

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN( IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<b>PROCUREMENT</b>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	8	0.7	10	0.6	29	1.7	4	0.2												51	3.2
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER PRODUCTION ENG		0.5		0.3		0.6		0.6		0.2											2.2
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	4	0.8	14	1.5	17	1.8	12	1.4	3	0.3	1	0.1								51	5.9
<b>TOTAL PROCUREMENT</b>		2.0		2.4		4.1		2.2		0.5		0.1									11.3

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

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

METHOD OF IMPLEMENTATION: SHIPALT - AIT

ADMINISTRATIVE LEADTIME: 1 Months      PRODUCTION LEADTIME: 2-3 Months

CONTRACT DATES:		FY 2010:	MAR-10	FY 2011:	JAN-11	FY 2012:	JAN-12
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DELIVERY DATES:		FY 2010:	MAY-10	FY 2011:	APR-11	FY 2012:	APR-12
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	4	0.8	4	0.4															8
FY 2010 EQUIPMENT			10	1.1															10	1.1
FY 2011 EQUIPMENT					17	1.8	12	1.4											29	3.2
FY 2012 EQUIPMENT									3	0.3	1	0.1							4	0.4
FY 2013 EQUIPMENT																				
FY 2014 EQUIPMENT																				
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	4	0	0	0	7	7	0	10	7	0	4	4	4	0	0	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	51
Out	4	0	0	0	7	7	0	10	7	0	4	4	4	0	0	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	51

Remarks: Hardware contract expires in FY12. In order to provide equipment commonality and avoid additional cost of a new procurement, equipment procured in FY 12 will not install until FY 13/14 as shown.

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>												
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION</b>										DATE February 2011				
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>					P-1 LINE ITEM NOMENCLATURE COMMAND AND CONTROL SWITCHBOARD <b>SUBHEAD NO. 81GE BLI: 0925</b>									
Program Element for Code B Items					Other Related Program Elements									
	Prior Years	ID Code		FY 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total
Quantity	0			0	0	0	0	0	0	0	0	0	0	0
COST ( In Millions)	61.4	A		4.4	4.0	3.0	0.0	3.0	2.5	2.6	2.6	2.7	0.0	83.2
SPARES COST ( In Millions)	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
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>														
<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, 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 Interior Communication (IC) systems will frequently mandate either conjunctive modification to switchboards via ship change documents (SCDs), ordnance alteration (ORDALT)/field changes (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 Ship Alterations (SHIPALTs), SCDs, ORDALTs or FCs are quantified by kits or change packages rather than individual units. The number of kits required for different classes of ships are as follows: CGs require four (4) per ship, LSDs require one (1) per ship, and LHDs require two (2) per ship. The magnitude of modifications also vary, as Cruiser Modernization is considerably more complex than the Amphibious Class hulls. 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>														

<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> COMMAND AND CONTROL SWITCHBOARD <b>SUBHEAD NO. 81GE BLI: 0925</b>	
<p>Shipboard Air Traffic Control Communications (SATCC)  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 demand 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><b>GE003</b>  Combat Systems &amp; Interior Communication Switchboard Engineering and Modifications Upgrades to Equipment, Drawings, Technical Manuals (TMs) Allowance Parts Lists (APLs) and Allowance Equipage Lists. 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 &amp; Field Changes). These engineering modifications are essential to the functional deployment of Battle Force Interoperability.</p> <p><b>GE900</b>  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, Primary Flight Control (PriFly), LSO and flight deck personnel. SATCC provides on-demand and reliable voice communications for the ATC team to perform these functions safely.</p>		

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>										
<b>EXHIBIT P-5 COST ANALYSIS</b>						Weapon System					DATE February 2011	
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>						ID Code		P-1 LINE ITEM NOMENCLATURE <b>COMMAND AND CONTROL SWITCHBOARD</b> <b>SUBHEAD NO. 81GE</b>				
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<b><u>EQUIPMENT</u></b>											
<b>GE003</b>	COMMAND & CONTROL ORDALT/FIELD CHANGE KITS	A	46.828	10	0.044	0.435	9	0.048	0.435	12	0.032	0.381
<b>GE003</b>	ENGINEERING UPGRADES/MODIFICATIONS TO EQUIPMENT & TECHNICAL DOCUMENTATION		10.665	0	0.000	1.250	0	0.000	1.158	0	0.000	1.271
<b>GE900</b>	SHIPBOARD AIR TRAFFIC CONTROL COMMUNICATIONS (SATCC)		3.930	0	0.000	2.684	0	0.000	2.369	0	0.000	1.397
	<b>TOTAL EQUIPMENT</b>		<b>61.423</b>			<b>4.369</b>			<b>3.962</b>			<b>3.049</b>
	<b>TOTAL</b>		<b>61.423</b>			<b>4.369</b>			<b>3.962</b>			<b>3.049</b>
<b>Comment:</b> Switchboards and quantities vary by ship.												

CLASSIFICATION:				UNCLASSIFIED							
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE		
APPROPRIATION/BUDGET ACTIVITY					P-1 LINE ITEM NOMENCLATURE				SUBHEAD		
OTHER PROCUREMENT, NAVY/BA 1					COMMAND AND CONTROL SWITCHBOARD				81GE		
					BLIN: 0925						
COST ELEMENT	Quantity	UNIT	LOCATION	RFP ISSUE	CONTRACT	CONTRACTOR	AWARD	DATE OF	SPEC	DATE	
FISCAL YEAR		COST	OF PCO	DATE	METHOD	AND LOCATION	DATE	FIRST	AVAIL	REVISIONS	
					& TYPE			DELIVERY	NOW	AVAILABLE	
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	
FY 2011											
GE003											
COMMAND & CONTROL ORDALT/FIELD CHANGE KITS	9	0.048	PHD NSWC		FFP	CACI/OXNARD, CA	MAY-11	JUN-11	YES	JAN-12	
FY 2012											
GE003											
COMMAND & CONTROL ORDALT/FIELD CHANGE KITS	12	0.032	PHD NSWC		FFP	CACI/OXNARD, CA	JAN-12	FEB-12	YES	SEP-12	



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 February 2011			
		FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				LATER											
		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	1	2	3	4								
ACTIVE FORCE INVENTORY	57			2	8	2		2	5		4	4	4		4	4	4		5	5	5		4	4	4						4	4	4								
SCHOOL/OTHER TRAINING																																									
OTHER																																									
<b>TOTAL PHASED REQ</b>	57	57	57	59	67	69	69	71	76	76	80	84	88	88	92	96	100	100	105	110	115	115	119	123	127	127	131	135	139	139											
ASSETS ON HAND	2																																								
DELIVERY																																									
FY 09 & PRIOR	55																																								
FY 10				2	8																																				
FY 11						2		2	5																																
FY 12										4	4	4																													
FY 13														4	4	4																									
FY 14																		5	5	5																					
FY 15																						4	4	4																	
FY 16																										4	4	4													
TC																																									
<b>TOTAL ASSETS</b>	57	57	57	59	67	69	69	71	76	76	80	84	88	88	92	96	100	100	105	110	115	115	119	123	127	127	131	135	139	139											
QTY OVER(+) OR SHORT(-)																																									
REMARKS:	Assets on hand are being held in inventory to support emergent requirements.		TOTAL RQMT												INSTALLED				ON HAND				FY 09 & PRIOR				UNFUNDED														
															ON 10/09				AS OF 10/09				UNDELIVERED																		
			APPN OPN												139				0				2				0				0										
			APPN												0				0				0				0				0										
			APPN												0				0				0				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 February 2011			
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 2010								FY 2011							
				LHD 5	2	CG 54	4	LHD 6	2			LSD 48	1	CG 57	4
						CG 56	4					LSD 44	1	LSD 42	1
FY 2012								FY 2013							
		CG 55	4	CG 62	4	CG 60	4			CG 59	4	CG 64	4	CG 63	4

<b>CLASSIFICATION: UNCLASSIFIED</b>															
Exhibit P-23A, Installation Data								P-1 LINE ITEM NOMENCLATURE COMMAND AND CONTROL SWITCHBOARD				DATE February 2011			
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 2014								FY 2015							
		CG 65	4	CG 71	4	CG 66	4			CG 69	4	CG 67	4	CG 70	4
		LPD 19	1	LPD 17	1	LSD 41	1								
FY 2016															
		CG 55	4	CG 68	4	CG 72	4								

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>												
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION</b>										DATE				
										February 2011				
APPROPRIATION/BUDGET ACTIVITY					P-1 LINE ITEM NOMENCLATURE									
<b>OTHER PROCUREMENT, NAVY/BA 1</b>					POLLUTION CONTROL EQUIPMENT									
					<b>SUBHEAD NO. 81HF BLI: 0935</b>									
Program Element for Code B Items					Other Related Program Elements									
	Prior Years	ID Code		FY 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total
Quantity	0			0	0	0	0	0	0	0	0	0	0	0
COST ( In Millions)	311.0			24.8	25.6	22.3	0.0	22.3	22.1	21.2	21.2	19.6	12.3	480.1
SPARES COST ( In Millions)	0.7	0		0.4	0.2	0.5	0.0	0.5	0.4	0.5	0.1	0.2	0.0	3.0
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>														
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.														
<b>HF024 - CFC CONVERSION PROGRAM</b>														
The production of chlorofluorocarbon(CFC)-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 Air-Conditioning (A/C) plants onboard surface ships and submarines. The CFC-12 conversion programs began in FY 94 and are expected to complete FY 10, with the exception of two units that are planned for installation after 2016. The CFC-114 conversion program began in FY 99 and is expected to complete in FY 17. Inventory Objective for CFC-12 Refrigeration is 560, and the inventory objective for CFC-114 is 402. Total program cost is estimated at \$425M.														
<b>HF030 - PLASTIC WASTE PROCESSORS</b>														
Machalt ECP 600, Mod 1 and SHIPALT 2027 Backfit, installs improved plastic waste processors (PWP) on all surface ships that currently have the baseline system installed. The Mod 1 PWP 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 262.														
<b>HF031 - POLLUTION CONTROL EQUIPMENT FIELD CHANGES</b>														

<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> <b>POLLUTION CONTROL EQUIPMENT</b> <b>SUBHEAD NO. 81HF BLI: 0935</b>	
<p>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><b>HF830 - PRODUCTION ENGINEERING</b> 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><b>SHORE BASED POLLUTION EQUIPMENT</b> 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><b>HF038 - FENDER SYSTEMS</b> 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><b>HF040 - SUPPORT SYSTEMS</b> 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, global positioning system (GPS) asset tracking, repair, towing, supply, offloading, deployment, firefighting, demobilization, and other ancillary requirements of a spill response.</p> <p><b>HF051 - OIL BOOM SYSTEMS</b> 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><b>HF055 - SALVAGE SKIMMER SYSTEMS</b> 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> <p><b>HF057 - LOGISTICS SUPPORT SYSTEMS</b> 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><b>HF059 - BOOM MOORING SYSTEMS (DEEP WATER EXTENSION)</b> This system is used to moor open ocean boom up to 600' allowing use of diversionary boom in deep water applications.</p> <p><b>HF061 - TANKER OFFLOAD SYSTEM</b> Large pumps to move large quantities of oil to lighten a stricken tanker. Also, oil that weathers, emulsifies, or mixes with other contaminants will become thick and viscous to the point that regular centrifugal pumping systems will not easily move the oil. The viscous oil pumping system is a different type of pump with peripherals to allow the pumping of this type of oil. Required</p>		

<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> <b>POLLUTION CONTROL EQUIPMENT</b> <b>SUBHEAD NO. 81HF BLI: 0935</b>	
<p>I/O is 24.</p> <p><b>HF062 - SUBMERSIBLE 6' HYDRAULIC PUMPING SYSTEMS</b> 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><b>HF063 - VESSEL OF OPPORTUNITY (VOSS) SKIMMING SYSTEMS</b> 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><b>HF064 - MODULAR BARGE SYSTEMS</b> 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><b>HF033 - OIL STORAGE BLADDER</b> These are large, 25 to 280 gallon, buoyant, flexible rubber cylinders which serve as interim containers/gravity separators for recovered oil and emulsion pending arrival of the often difficult to obtain tank barges.</p> <p><b>HF054 - BEACH TRANSFER SYSTEMS</b> These systems consist of an all-terrain tractor with trailer and two all-terrain vehicles with support equipment packaged in an 8' x 8' x 20' shipping container. The system transports equipment and materials to otherwise inaccessible soft beach and mud areas of a spill reponse.</p> <p><b>HF056 - EQUIPMENT CLEAN-UP SYSTEMS</b> These systems provide for the extensive cleaning of equipment prior to demobilization at a response site. The system provides a full array of all tools and materials required for efficient cleaning and demobilization of response assets.</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						POLLUTION CONTROL EQUIPMENT						
						SUBHEAD NO. 81HF						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<u>EQUIPMENT</u>											
HF024	CFC-114 (R-114) AC CONVERSION		25.396	2	0.696	1.392	6	0.567	3.402	0	0.000	0.000
HF024	CFC-114 (R-114) AC CONVERSION		62.973	6	0.628	3.770	8	0.527	4.212	10	0.579	5.789
HF024	CFC-114 (R-114) AC CONVERSION		1.500	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HF024	CFC-114 (R-114) AC CONVERSION		1.400	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HF024	CFC-12(R-12)REFER CONVERSION		8.800	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
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-12(R-12)REFER CONVERSION		3.250	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
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	PLASTIC WASTE PROCESSORS		0.000	8	0.110	0.880	0	0.000	0.000	0	0.000	0.000
HF030	PLASTIC WASTE PROCESSORS		2.807	8	0.082	0.652	0	0.000	0.000	0	0.000	0.000
HF030	PLASTIC WASTE PROCESSORS		5.384	8	0.081	0.650	10	0.066	0.660	0	0.000	0.000
HF030	PLASTIC WASTE PROCESSORS		0.244	0	0.000	0.000	2	0.028	0.055	0	0.000	0.000
HF030	PLASTIC WASTE PROCESSORS		2.774	0	0.000	0.000	4	0.216	0.864	6	0.086	0.518

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>										
<b>EXHIBIT P-5 COST ANALYSIS (CONTINUATION)</b>				Weapon System							DATE February 2011	
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>				ID Code	P-1 LINE ITEM NOMENCLATURE <b>POLLUTION CONTROL EQUIPMENT</b> <b>SUBHEAD NO. 81HF</b>							
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
HF031	POLLUTION CONTROL EQUIPMENT FIELD CHANGES		4.600	0	0.000	0.450	0	0.000	0.000	0	0.000	1.767
HF031	POLLUTION CONTROL EQUIPMENT FIELD CHANGES		14.362	0	0.000	2.156	0	0.000	3.455	0	0.000	0.478
HF031	POLLUTION CONTROL EQUIPMENT FIELD CHANGES		0.941	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HF031	POLLUTION CONTROL EQUIPMENT FIELD CHANGES		1.097	0	0.000	0.000	0	0.000	0.046	0	0.000	0.442
HF033	OIL STORAGE BLADDER		0.000	1	0.471	0.471	2	0.485	0.970	0	0.000	0.000
HF038	FENDER SYSTEMS		0.600	0	0.000	0.000	0	0.000	0.000	1	0.350	0.350
HF040	SUPPORT SYSTEMS		1.662	5	0.655	3.273	4	0.337	1.348	3	0.393	1.178
HF051	OIL BOOM SYSTEMS		9.245	0	0.000	0.000	0	0.000	0.000	3	0.500	1.501
HF055	SALVAGE SKIMMER SYSTEMS		0.582	0	0.000	0.000	1	0.412	0.412	0	0.000	0.000
HF057	LOGISTICS SUPPORT SYSTEMS		2.031	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HF059	BOOM MOORING SYSTEMS		0.277	0	0.000	0.000	50	0.031	1.564	0	0.000	0.000
HF061	TANKER OFFLOAD SYSTEM		0.165	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HF062	SUBMERSIBLE 6' HYD PUMP SYS		0.799	1	0.410	0.410	0	0.000	0.000	1	0.573	0.573
HF063	VOSS SKIMMER SYSTEMS		2.181	1	0.054	0.054	0	0.000	0.000	1	0.557	0.557



CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)				Weapon System						DATE February 2011		
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 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
HF064	MODULAR BARGE SYSTEMS		0.678	0	0.000	0.000	0	0.000	0.000	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
HF830	PRODUCTION ENGINEERING		0.772	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HF830	PRODUCTION ENGINEERING		5.567	0	0.000	0.261	0	0.000	0.422	0	0.000	0.579
HF830	PRODUCTION ENGINEERING		2.666	0	0.000	0.115	0	0.000	0.335	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
	<b>TOTAL EQUIPMENT</b>		<b>193.210</b>			<b>14.534</b>			<b>17.745</b>			<b>13.732</b>
	<u>INSTALLATION</u>											
HF5IN	EXPEDITIONARY WARFARE		26.168	0	0.000	2.847	0	0.000	2.074	0	0.000	3.950
HF6IN	SURFACE WARFARE		43.200	0	0.000	7.257	0	0.000	4.877	0	0.000	4.244
HF7IN	SUBMARINE WARFARE		5.570	0	0.000	0.000	0	0.000	0.095	0	0.000	0.000
HF8IN	AIR WARFARE		42.814	0	0.000	0.120	0	0.000	0.823	0	0.000	0.340
	<b>TOTAL INSTALLATION</b>		<b>117.752</b>			<b>10.224</b>			<b>7.869</b>			<b>8.534</b>
	<b>TOTAL</b>		<b>310.962</b>			<b>24.758</b>			<b>25.614</b>			<b>22.266</b>

<b>CLASSIFICATION:</b>				<b>UNCLASSIFIED</b>						
<b>Exhibit P5A, PROCUREMENT HISTORY AND PLANNING</b>					Weapon System				<b>DATE</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>					<b>P-1 LINE ITEM NOMENCLATURE</b> <b>POLLUTION CONTROL EQUIPMENT</b> <b>BLIN: 0935</b>				<b>SUBHEAD</b> 81HF	
<b>COST ELEMENT</b> <b>FISCAL YEAR</b>	<b>Quantity</b>	<b>UNIT</b> <b>COST</b>	<b>LOCATION</b> <b>OF PCO</b>	<b>RFP ISSUE</b> <b>DATE</b>	<b>CONTRACT</b> <b>METHOD</b> <b>&amp; TYPE</b>	<b>CONTRACTOR</b> <b>AND LOCATION</b>	<b>AWARD</b> <b>DATE</b>	<b>DATE OF</b> <b>FIRST</b> <b>DELIVERY</b>	<b>SPEC</b> <b>AVAIL</b> <b>NOW</b>	<b>DATE</b> <b>REVISIONS</b> <b>AVAILABLE</b>
<b>FY 2010</b>										
<b>HF030</b> PLASTIC WASTE PROCESSORS	8	0.110	NSWC, PHILA, PA		FFP	FLIGHTFAB, MD	OCT-09	MAR-10	YES	
<b>HF033</b> OIL STORAGE BLADDER	1	0.471	WASHINGTON, D.C.	JUN-07	C/CPAF	GPC, VA	MAR-10	OCT-10	YES	
<b>HF040</b> SUPPORT SYSTEMS	5	0.655	WASHINGTON, D.C.	JUN-07	C/CPAF	GPC, VA	APR-10	OCT-11	YES	
<b>HF062</b> SUBMERSIBLE 6' HYD PUMP SYS	1	0.410	WASHINGTON, D.C.	JUN-07	C/CPAF	GPC, VA	JUN-10	OCT-11	YES	
<b>HF063</b> VOSS SKIMMER SYSTEMS	1	0.054	WASHINGTON, D.C.	JUN-07	C/CPAF	GPC, VA	JUN-10	OCT-11	YES	
<b>HF024</b> CFC-114 (R-114) AC CONVERSION	2	0.696	NSWC, PHILA, PA		FFP	YORK INT'L, PA	JAN-10	JAN-11	YES	
<b>HF030</b> PLASTIC WASTE PROCESSORS	8	0.082	NSWC, PHILA, PA		FFP	FLIGHTFAB, MD	OCT-09	MAR-10	YES	
<b>HF024</b> CFC-114 (R-114) AC CONVERSION	6	0.628	NSWC, PHILA, PA		FFP	YORK INT'L, PA	JAN-10	JAN-11	YES	
<b>HF030</b> PLASTIC WASTE PROCESSORS	8	0.081	NSWC, PHILA, PA		FFP	FLIGHTFAB, MD	OCT-09	MAR-10	YES	
<b>FY 2011</b>										
<b>HF033</b> OIL STORAGE BLADDER	2	0.485	WASHINGTON, D.C.	JUN-07	C/CPAF	GPC, VA	JUN-11	JAN-12	YES	
<b>HF040</b> SUPPORT SYSTEMS	4	0.337	WASHINGTON, D.C.	JUN-07	C/CPAF	GPC, VA	JUN-11	JAN-12	YES	
<b>HF055</b> SALVAGE SKIMMER SYSTEMS	1	0.412	WASHINGTON, D.C.	JUN-07	C/CPAF	GPC, VA	JUN-11	JAN-12	YES	
<b>HF059</b>										

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				DATE February 2011	
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
BOOM MOORING SYSTEMS <b>HF024</b>	50	0.031	WASHINGTON, D.C.	JUN-07	C/CPAF	GPC, VA	JUN-11	JAN-12	YES	
CFC-114 (R-114) AC CONVERSION	6	0.567	NSWC, PHILA, PA		FFP	YORK INT'L, PA	JAN-11	JAN-12	YES	
CFC-114 (R-114) AC CONVERSION <b>HF030</b>	8	0.527	NSWC, PHILA, PA		FFP	YORK INT'L, PA	JAN-11	JAN-12	YES	
PLASTIC WASTE PROCESSORS	10	0.066	NSWC, PHILA, PA		FFP	FLIGHTFAB, MD	OCT-10	MAR-11	YES	
PLASTIC WASTE PROCESSORS	2	0.028	NSWC, PHILA, PA		FFP	FLIGHTFAB, MD	OCT-10	MAR-11	YES	
PLASTIC WASTE PROCESSORS	4	0.216	NSWC, PHILA, PA		FFP	FLIGHTFAB, MD	OCT-10	MAR-11	YES	
<b>FY 2012</b>										
<b>HF038</b>										
FENDER SYSTEMS <b>HF040</b>	1	0.350	WASHINGTON, D.C.	JUN-07	C/CPAF	TBD	APR-12	OCT-12	YES	
SUPPORT SYSTEMS <b>HF051</b>	3	0.393	WASHINGTON, D.C.	JUN-07	C/CPAF	TBD	APR-12	OCT-12	YES	
OIL BOOM SYSTEMS <b>HF062</b>	3	0.500	WASHINGTON, D.C.	JUN-07	C/CPAF	TBD	APR-12	OCT-12	YES	
SUBMERSIBLE 6' HYD PUMP SYS <b>HF063</b>	1	0.573	WASHINGTON, D.C.	JUN-07	C/CPAF	TBD	APR-12	OCT-12	YES	
VOSS SKIMMER SYSTEMS <b>HF024</b>	1	0.557	WASHINGTON, D.C.	JUN-07	C/CPAF	TBD	APR-12	OCT-12	YES	
CFC-114 (R-114) AC CONVERSION <b>HF030</b>	10	0.579	NSWC, PHILA, PA		FFP	YORK INT'L, PA	JAN-12	JAN-13	YES	
PLASTIC WASTE PROCESSORS	6	0.086	NSWC, PHILA, PA		FFP	FLIGHTFAB, MD	OCT-11	MAR-12	YES	

**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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN( IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	322	115.0	8	5.2	14	7.6	10	5.8	15	9.3	8	4.8	13	8.7	8	5.3	4	2.7	402	164.4	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER PRODUCTION ENG		1.7		0.4		0.8		0.6		0.9		0.5		0.6		0.4		0.3		6.2	
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	302	144.5	18	9.3	10	6.5	14	8.2	10	5.7	13	8.3	10	6.2	11	6.0	14	8.8	402	203.5	
<i>TOTAL PROCUREMENT</i>			261.2		14.9		14.9		14.6		15.9		13.6		15.5		11.7		11.8		374.1

**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 2010: JAN-10      FY 2011: JAN-11      FY 2012: JAN-12

DELIVERY DATES: FY 2010: JAN-11      FY 2011: JAN-12      FY 2012: JAN-13

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	302	####	18	9.3	2	0.9													322
FY 2010 EQUIPMENT					8	5.6													8	5.6
FY 2011 EQUIPMENT							14	8.2											14	8.2
FY 2012 EQUIPMENT									10	5.7									10	5.7
FY 2013 EQUIPMENT											13	8.3	2	0.9					15	9.2
FY 2014 EQUIPMENT												8	5.3						8	5.3
FY 2015 EQUIPMENT														11	6.0	2	0.9		13	6.9
FY 2016 EQUIPMENT																8	5.2		8	5.2
TO COMPLETE																4	2.7		4	2.7

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	302	0	10	8	0	0	3	3	4	0	4	6	4	0	4	4	2	0	5	4	4	2	2	2	4	0	4	4	3	14	402
Out	302	0	10	8	0	0	3	3	4	0	4	6	4	0	4	4	2	0	5	4	4	2	2	2	4	0	4	4	3	14	402

Remarks:

**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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN( IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	560	17.1																		560	17.1
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	555	32.4	3	0.5														2	0.5	560	33.4
<u>TOTAL PROCUREMENT</u>		49.5		0.5														0.5			50.5

**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 2010: FY 2011: FY 2012:

DELIVERY DATES: FY 2010: FY 2011: FY 2012:

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	555	32.4	3	0.5													2	0.5	560
FY 2010 EQUIPMENT																				
FY 2011 EQUIPMENT																				
FY 2012 EQUIPMENT																				
FY 2013 EQUIPMENT																				
FY 2014 EQUIPMENT																				
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	555	0	3	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	2	560
Out	555	0	3	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	2	560	

Remarks: Remaining two units shown as "To Complete" are for installation onboard SSN-23. This installation is currently unfunded within the program's POM-12 FYDP funding profile.

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED HF030 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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN( IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	216	11.2	24	2.2	16	1.6	6	0.5												262	15.5
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	214	7.2	16	0.5	26	1.5	6	0.3												262	9.5
<u>TOTAL PROCUREMENT</u>		18.4		2.7		3.1		0.8													25.0



**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

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

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:	Months	PRODUCTION LEADTIME:	6 Months
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CONTRACT DATES:	FY 2010:	OCT-09	FY 2011:	OCT-10	FY 2012:	OCT-11
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DELIVERY DATES:	FY 2010:	MAR-10	FY 2011:	MAR-11	FY 2012:	MAR-12
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	214	7.2	2	0.1															216
FY 2010 EQUIPMENT			14	0.4	10	0.6													24	1.0
FY 2011 EQUIPMENT					16	0.9													16	0.9
FY 2012 EQUIPMENT							6	0.3											6	0.3
FY 2013 EQUIPMENT																				
FY 2014 EQUIPMENT																				
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	214	2	0	7	7	6	4	8	8	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Out	214	2	0	7	7	6	4	8	8	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Remarks:

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>													
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION</b>											DATE February 2011				
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>						P-1 LINE ITEM NOMENCLATURE SUBMARINE SUPPORT EQUIPMENT <b>SUBHEAD NO. H1PB BLI: 0941</b>									
Program Element for Code B Items 0204281N						Other Related Program Elements									
	Prior Years	ID Code		FY 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total	
Quantity	0			0	0	0	0	0	0	0	0	0	0	0	
COST ( In Millions)	54.4	A		16.8	7.7	15.9	0.0	15.9	14.1	10.7	22.9	5.5	1.7	149.7	
SPARES COST ( In Millions)	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>															
The Submarine Support Equipment budget provides funding for equipment technical refresh and upgrades that consists of hardware, software, system engineering, integrated logistics support, system test and evaluation, training, data, installation assistance teams and program management. This funding also procures equipment and material required to implement the military high priority Submarine Silencing Program for operating nuclear submarines. These equipment technical refreshes and upgrades are not supported by other NAVSEA program offices and support SSN/SSBN/SSGN Class Submarines and land based laboratories/facilities.															
PB001 SSN21 (SEAWOLF) COMPONENT UPGRADES Procures equipment components no longer supported by the original equipment manufacturers (OEM) that are difficult to maintain due to aging technology. Specific items include R-114 Universal Navy Microprocessor Controllers, Weapon Shipping and Handling Processors, external Hydraulic Power Plant Controllers and propulsor components for worn/damaged propulsor items.															
PB004 ACOUSTIC RANGE EQUIPMENT Procures equipment and materials required to implement and support the military high priority Submarine Silencing Program for operating nuclear submarines. TYCOMs have consistently rated the conduct of noise trials as a high priority funding requirement. The requirements for this program are identified in Chief of Naval Operations (CNO) Specific Operational Requirements (SOR) 46-28 and Naval Sea Systems Instruction (NAVSEAINST) C9073.2B. This is the only program in place to procure equipment for the purpose of measuring, monitoring, assessing and improving the detection capability and reducing the detectability of deployed submarines. The equipment is used on test vessels, listening platforms and at the laboratories. This program replaces or refurbishes broken or obsolete acquisition and analysis hardware and software used to ensure ship's safety; and the execution and completion of acoustic trials objectives identified in CNO SOR 46-28 (assessment of ship's acoustic posture, etc.) and NAVSEAINST C9073.2B (Acoustic Surveys Policy). These refurbishments and replacements are especially critical in order to maintain the technological advances recently made in the area of acoustic data acquisition under the Acoustic Measurement Facilities Improvement Program (AMFIP) and to utilize the South Tongue of the Ocean Acoustic Facility (STAFAC). Specific items include hydrophone arrays, towed arrays, ranging and tracking systems, on-board array electronics, noise sources, shore power cables, data fiber optic cables, data analysis systems, workstations, data storage and retrieval, communications systems, analyzers, tape recorders, accelerometers, monitors, etc.															

<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> SUBMARINE SUPPORT EQUIPMENT <b>SUBHEAD NO. H1PB BLI: 0941</b>	
<p><b>PB007 SSN/SSBN/SSGN HULL MECHANICAL AND ELECTRICAL (HM&amp;E) THRESHOLD MODERNIZATION</b> SEAWOLF Class Ship Processor Unit redesign to replace the OEM processor which is not supportable and no longer has the throughput capacity to ensure safe operation of the ship's control system.</p> <p>In addition, this program procures Special Operations Forces (SOF) upgrades for SSGN Submarines and flat panel display replacements on SSN21 (SEAWOLF). The SOF upgrades in FY09 are to procure, kit, install and test the Ship's Diver Air System (SDA 155) and procure kit, install and test the flow-meter for Lockout Chamber (LOC) operations for SSGNs. SOF upgrades in FY10 will be the installation of the Battle Management Center (BMC) TEMPALT on USS Ohio, the Diver Oxygen Treatment System on USS Ohio and the backup valve Star LOC on USS Michigan.</p> <p><b>PB008 SHIP SERVICE TURBINE GENERATOR (SSTG) GOVERNORS</b> Procures new SSTG governor control systems to replace obsolete components with industry supported components on SSN688/SSBN726/SSN21 Class submarines to meet current service life.</p> <p><b>PB51N FLEET MODERNIZATION PROGRAM (FMP) INSTALLATION</b> Funds are for the installations of Warm Water Operation, SHIPALT 4347K, on SSN 688 Class submarines; SSTG Governors on SSN 688, SSN 21 and SSBN/SSGN 726 Class submarines; SOF upgrades on SSGN 726 submarines; and flat panel displays on SSN21 class submarines.</p>		

<b>CLASSIFICATION:</b>			<b>UNCLASSIFIED</b>									
<b>EXHIBIT P-5 COST ANALYSIS</b>			Weapon System							DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>			ID Code <b>A</b>		P-1 LINE ITEM NOMENCLATURE <b>SUBMARINE SUPPORT EQUIPMENT</b> <b>SUBHEAD NO. H1PB</b>							
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<b><u>EQUIPMENT</u></b>											
	<b><u>SUBMARINE WARFARE</u></b>											
<b>PB001</b>	<u>SEAWOLF COMPONENT UPGRADES</u>											
	SEAWOLF COMPONENT UPGRADES	A	2.152	0	0.000	0.107	0	0.000	0.384	0	0.000	0.000
	SEAWOLF CLASS WEAPONS SHIPPING AND HANDLING	A	4.947	0	0.000	1.648	0	0.000	0.000	0	0.000	0.000
<b>PB004</b>	<u>FACILITIES / LAB UPGRADES</u>											
	ACOUSTIC RANGE REPLACEMENT EQUIPMENT	A	32.188	1	3.300	3.300	1	3.497	3.497	1	3.395	3.395
<b>PB007</b>	<u>SSN/SSBN HM&amp;E THRESHOLD MODERNIZATION</u>											
	SSN21 CL SC PROC DESIGN & DEV	A	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	7.000
	EAFW MODIFICATIONS (SHIPALT 4347)	A	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
<b>PB008</b>	<u>SSTG GOVERNORS</u>											
	DESIGN AND SHIPALT DEVELOPMENT	A	3.679	0	0.000	5.422	0	0.000	0.388	0	0.000	0.000
	LOS ANGELES AND OHIO CLASS PROCUREMENT	A	1.260	5	0.070	0.350	8	0.071	0.570	0	0.000	0.000
	SEAWOLF CLASS AND MOD 25 PROCUREMENT	A	0.000	0	0.000	0.000	1	0.756	0.756	4	0.590	2.360
	<b>SUBMARINE WARFARE Subtotal</b>		<b>44.226</b>			<b>10.827</b>			<b>5.595</b>			<b>12.755</b>
	<b>TOTAL EQUIPMENT</b>		<b>44.226</b>			<b>10.827</b>			<b>5.595</b>			<b>12.755</b>
	<b><u>INSTALLATION</u></b>											
<b>PB5IN</b>	SHIPALT 4347K INSTALLATION - DSRA	A	3.364	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
<b>PB5IN</b>	SHIPALT 4347K INSTALLATION - DMP	A	3.251	4	0.354	1.417	0	0.000	0.000	3	0.530	1.589
<b>PB5IN</b>	RECURRING DSA (S/A 4347K)	A	1.961	0	0.000	0.196	0	0.000	0.200	0	0.000	0.183
<b>PB5IN</b>	SHAPEC SHIPALT 4347	A	0.239	0	0.000	0.016	0	0.000	0.048	0	0.000	0.060

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EXHIBIT P-5 COST ANALYSIS (CONTINUATION)		Weapon System								DATE		
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 2010			FY 2011			FY 2012		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
PB5IN	SHIPALT 4347 ADVANCE PLANNING	A	0.821	0	0.000	0.134	0	0.000	0.217	0	0.000	0.235
PB5IN	SSTG GOVERNOR: LA/OHIO CLASS INSTALLATION	A	0.000	10	0.088	0.884	18	0.091	1.639	3	0.091	0.274
PB5IN	SSTG GOVERNOR: SEAWOLF/MOD25 INSTALLATION	A	0.000	0	0.000	0.000	0	0.000	0.000	2	0.267	0.533
PB5IN	RECURRING DSA (GOVERNORS)	A	0.533	0	0.000	0.158	0	0.000	0.031	0	0.000	0.263
PB5IN	SSGN SOF UPGRADES INSTALLATION	A	0.000	0	0.000	2.100	0	0.000	0.000	0	0.000	0.000
PB5IN	SEAWOLF FLAT PANEL DISPLAYS INSTALLATION	A	0.000	0	0.000	1.083	0	0.000	0.000	0	0.000	0.000
	<b>TOTAL INSTALLATION</b>		<b>10.169</b>			<b>5.988</b>			<b>2.135</b>			<b>3.137</b>
	<b>TOTAL</b>		<b>54.395</b>			<b>16.815</b>			<b>7.730</b>			<b>15.892</b>

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE February 2011	
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
<b>FY 2010</b>										
<b>PB004 FACILITIES / LAB UPGRADES</b>										
ACOUSTIC RANGE REPLACEMENT EQUIPMENT	1	3.300	NSWC CARDEROCK		OTHER	PSI, VA	NOV-09	JUL-10	YES	
<b>PB008 SSTG GOVERNORS</b>										
LOS ANGELES AND OHIO CLASS PROCUREMENT	5	0.070	NAVSEA		WR	NSWC PHILADELPHIA, PA	NOV-09	MAR-10	YES	
<b>PB5IN</b>										
SHIPALT 4347K INSTALLATION - DMP	4	0.354	NAVSEA		OTHER	VARIOUS	NOV-09	NOV-09	YES	
SSTG GOVERNOR: LA/OHIO CLASS INSTALLATION	10	0.088	NAVSEA		OTHER	VARIOUS	APR-10	APR-10	YES	
<b>FY 2011</b>										
<b>PB004 FACILITIES / LAB UPGRADES</b>										
ACOUSTIC RANGE REPLACEMENT EQUIPMENT	1	3.497	NSWC CARDEROCK		OTHER	PSI, VA	FEB-11	OCT-11	YES	
<b>PB008 SSTG GOVERNORS</b>										
LOS ANGELES AND OHIO CLASS PROCUREMENT	8	0.071	NAVSEA		WR	NSWC PHILADELPHIA, PA	APR-11	AUG-11	YES	
SEAWOLF CLASS AND MOD 25 PROCUREMENT	1	0.756	NAVSEA		WR	NSWC PHILADELPHIA, PA	APR-11	AUG-11	YES	
<b>PB5IN</b>										
SSTG GOVERNOR: LA/OHIO CLASS INSTALLATION	18	0.091	NAVSEA		OTHER	VARIOUS	MAR-11	MAR-11	YES	
<b>FY 2012</b>										
<b>PB004 FACILITIES / LAB UPGRADES</b>										
ACOUSTIC RANGE REPLACEMENT EQUIPMENT	1	3.395	NSWC CARDEROCK		OTHER	PSI, VA	NOV-11	JUL-12	YES	
<b>PB008 SSTG GOVERNORS</b>										
SEAWOLF CLASS AND MOD 25 PROCUREMENT	4	0.590	NAVSEA		WR	NSWC PHILADELPHIA, PA	NOV-11	MAR-12	YES	
<b>PB5IN</b>										
SHIPALT 4347K INSTALLATION - DMP	3	0.530	NAVSEA		OTHER	VARIOUS	NOV-11	NOV-11	YES	
SSTG GOVERNOR: LA/OHIO CLASS INSTALLATION	3	0.091	NAVSEA		OTHER	VARIOUS	NOV-11	NOV-11	YES	
SSTG GOVERNOR: SEAWOLF/MOD25 INSTALLATION	2	0.267	NAVSEA		OTHER	VARIOUS	NOV-11	NOV-11	YES	
Remarks:										

<b>CLASSIFICATION:</b>				<b>UNCLASSIFIED</b>							
<b>Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)</b>						Weapon System				<b>DATE</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>						<b>P-1 LINE ITEM NOMENCLATURE</b> <b>SUBMARINE SUPPORT EQUIPMENT</b> <b>BLIN: 0941</b>				<b>SUBHEAD</b> 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
<p>1. FOR PB004 - CONTRACT METHODS LISTED AS "OTHER" ARE COST PLUS FIXED FEE (CPFF) CONTRACTS.</p> <p>2. FOR SHIPALT 4347K - "Contractor and Location" is marked as VARIOUS 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.</p> <p>3. FOR SSTG GOVERNOR - "Contractor and Location" is marked as VARIOUS 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.</p>											

**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 EXCHAGER  
 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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<u>FINANCIAL PLAN (IN MILLIONS)</u>																					
<u>RDT&amp;E</u>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	18																			18	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER - DSA		2.0		0.2		0.2		0.2		0.2		0.2		0.2		0.2		0.3		3.7	
OTHER - SHAPEC		0.2						0.1												0.3	
OTHER - ADVANCE PLANNING		0.8		0.1		0.2		0.2		0.1		0.1		0.1		0.1		0.3		2.0	
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	18	6.6	4	1.4			3	1.6	2	1.0	1	0.4	1	0.6	1	0.6	1	1.1	31	13.3	
<u>TOTAL PROCUREMENT</u>		9.6		1.7		0.4		2.1		1.3		0.7		0.9		0.9		1.7		19.3	



**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED SSN/SSBN HM&E THRESHOLD MODERNIZATION EAFW MODIFICATIONS (SHIPALT 4347)	MODIFICATION TITLE: SUBMARINE SUPPORT EQUIPMENT
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: K-ALT

ADMINISTRATIVE LEADTIME: N/A Months      PRODUCTION LEADTIME: N/A Months

CONTRACT DATES: FY 2010: FY 2011: FY 2012:

DELIVERY DATES: FY 2010: FY 2011: FY 2012:

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	18	6.6																	18
FY 2010 EQUIPMENT			4	1.4															4	1.4
FY 2011 EQUIPMENT																				
FY 2012 EQUIPMENT							3	1.6											3	1.6
FY 2013 EQUIPMENT									2	1.0									2	1.0
FY 2014 EQUIPMENT											1	0.4							1	0.4
FY 2015 EQUIPMENT												1	0.6						1	0.6
FY 2016 EQUIPMENT															1	0.6			1	0.6
TO COMPLETE																	1	1.1	1	1.1

**INSTALLATION SCHEDULE**

	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
In	18	2	0	1	1	0	0	0	0	1	1	0	1	0	0	0	2	0	1	0	0	0	0	0	1	0	0	0	0	1	1	31
Out	18	0	0	0	0	0	0	1	1	1	0	2	0	0	0	1	1	0	1	0	0	0	0	1	0	1	0	0	0	0	3	31

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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN (IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	18	1.3	5	0.4	8	0.6			1	0.1	6	0.4	11	0.8					49	3.6	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER - DSA		0.5		0.2				0.1				0.1									0.9
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST			10	0.9	18	1.6	3	0.3	1	0.1	5	0.5	12	1.2					49	4.6	
<u>TOTAL PROCUREMENT</u>		1.8		1.5		2.2		0.4		0.2		1.0		2.0						9.1	

CLASSIFICATION: UNCLASSIFIED															February 2011																									
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 2010:		NOV-09			FY 2011:		APR-11			FY 2012:																				
DELIVERY DATES:										FY 2010:		MAR-10			FY 2011:		AUG-11			FY 2012:																				
(\$ in Millions)																																								
COST															Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL							
															Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$				
PRIOR YEARS																	10	0.9	8	0.7															18	1.6				
FY 2010 EQUIPMENT																			5	0.5																	5	0.5		
FY 2011 EQUIPMENT																			5	0.5	3	0.3																8	0.8	
FY 2012 EQUIPMENT																																								
FY 2013 EQUIPMENT																							1	0.1															1	0.1
FY 2014 EQUIPMENT																											5	0.5	1	0.1									6	0.6
FY 2015 EQUIPMENT																													11	1.0									11	1.0
FY 2016 EQUIPMENT																																								
TO COMPLETE																																								
INSTALLATION SCHEDULE																																								
	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL									
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4											
In	0	0	0	5	5	0	6	7	5	3	0	0	0	0	0	1	0	0	0	3	2	1	0	6	5	0	0	0	0	0	0	49								
Out	0	0	0	5	5	0	6	7	5	3	0	0	0	0	0	1	0	0	0	3	2	1	0	6	5	0	0	0	0	0	0	49								
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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<u>FINANCIAL PLAN (IN MILLIONS)</u>																					
<u>RDT&amp;E</u>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT					1	0.8	4	2.4	1	0.7										6	3.9
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER - DSA									0.1												0.1
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST								2	0.5	4	0.6									6	1.1
<u>TOTAL PROCUREMENT</u>								0.8		3.0		1.3									5.1

CLASSIFICATION: UNCLASSIFIED February 2011

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED SSTG GOVERNORS SEAWOLF CLASS AND MOD 25 PROCUREMENT	MODIFICATION TITLE: SUBMARINE SUPPORT EQUIPMENT
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: K-ALT

ADMINISTRATIVE LEADTIME: 1 Months      PRODUCTION LEADTIME: 5 Months

CONTRACT DATES:	FY 2010:	FY 2011:	NOV-10	FY 2012:	NOV-11
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DELIVERY DATES:	FY 2010:	FY 2011:	MAR-11	FY 2012:	MAR-12
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	PRIOR YEARS																				
FY 2010 EQUIPMENT																					
FY 2011 EQUIPMENT							1	0.3												1	0.3
FY 2012 EQUIPMENT							1	0.3	3	0.5										4	0.8
FY 2013 EQUIPMENT									1	0.2										1	0.2
FY 2014 EQUIPMENT																					
FY 2015 EQUIPMENT																					
FY 2016 EQUIPMENT																					
TO COMPLETE																					

INSTALLATION SCHEDULE

	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
In	0	0	0	0	0	0	0	0	0	1	0	1	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Out	0	0	0	0	0	0	0	0	0	1	0	1	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6

Remarks:

<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>
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<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION</b>	DATE February 2011
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APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>	P-1 LINE ITEM NOMENCLATURE VIRGINIA CLASS SUPPORT EQUIPMENT <b>SUBHEAD NO. H1RC BLI: 0942</b>
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Program Element for Code B Items	Other Related Program Elements RDT&E PE 0604558N / SCN 0204281N
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	Prior Years	ID Code	FY 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total
Quantity	0		0	0	0	0	0	0	0	0	0	0	0
COST ( In Millions)	693.7	A	100.0	132.0	100.7	0.0	100.7	126.2	66.6	107.2	42.9	0.0	1,369.3
SPARES COST ( In Millions)	12.7	A	0.3	0.5	0.9	0.0	0.9	2.1	2.4	1.4	1.0	0.0	22.2

**PROGRAM DESCRIPTION/JUSTIFICATION:**  
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 Thin Line Towed Array components and other components. Insurance spares (which include a main propulsion unit, ship service turbine generator and propulsors) support unplanned equipment replacement due to casualty or emergent maintenance requirements. Insurance spares availability reduces the likelihood an operating ship will be materially impaired for an undetermined period or the construction schedule extended.

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.

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 in this line. Finally, it includes selected VIRGINIA-unique test equipment for maintenance and new component evaluation/checkout.

Funding for Special Operations Forces (SOF) provides for Reconfigurable Berthing Structures, Lockout Trunk (LOT) items, recompression equipment and other items required for SOF certification.

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: FTMPs/NTMPS, CHCS, prescriptions, MYPAY - DFAS, EPMAC, BUPERS, EMAIL, FTSCCLANT, SUBMEPP and NKO.

<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		DATE February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> VIRGINIA CLASS SUPPORT EQUIPMENT <b>SUBHEAD NO. H1RC BLI: 0942</b>	
<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 (performed by ship's force as well as organizational/depot level) by creating a set of tools to provide a robust, disconnected and comprehensive training and maintenance solution delivering dynamic content. This set of tools and the associated ship-to-shore data environment will reduce O&amp;MN funding over time. This will be fielded as part of the Non-Tactical Data Processing System (NTDPS) to VIRGINIA submarines.</p> <p>Funding for survival equipment to ensure compliance to CNO requirements for crew life support and survivability for seven days. Procurement includes LiOH canisters, Submarine Escape Immersion Equipment (SEIE) suits and oxygen (O2) candles.</p> <p>Ship Control Tactical Lab Set for Redesign Configuration procures the Acceptance Test Lab to support VIRGINIA Class upgrade of new ship control hardware development and qualification. Procurement includes a full tactical set of hardware for the lab.</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>		

<b>CLASSIFICATION:</b>			<b>UNCLASSIFIED</b>									
<b>EXHIBIT P-5 COST ANALYSIS</b>			Weapon System							DATE		
										February 2011		
APPROPRIATION/BUDGET ACTIVITY			ID Code		P-1 LINE ITEM NOMENCLATURE							
<b>OTHER PROCUREMENT, NAVY/BA 1</b>			<b>A</b>		<b>VIRGINIA CLASS SUPPORT EQUIPMENT</b>							
					<b>SUBHEAD NO. H1RC</b>							
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010			FY 2011			FY 2012		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<b><u>EQUIPMENT</u></b>											
H1RC1	VIRGINIA CLASS SOF SUPPORT	A	1.953	0	0.000	0.000	0	0.000	0.820	0	0.000	0.000
H1RC2	TEST & EVALUATION MEASURING EQUIPMENT	A	15.500	0	0.000	0.000	0	0.000	2.750	0	0.000	2.216
H1RC3	VLS PECULIAR SUPPORT EQUIPMENT	A	18.099	0	0.000	0.310	0	0.000	10.470	0	0.000	0.000
H1RC4	VA SHIP CONTROL OPERATOR (VSCOT) TRAINER	A	10.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
H1RC5	EXTERIOR COMMUNICATION SYSTEM (ECS) TRAINER	A	5.043	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
H1RC6	MAJOR SHORE SPARES(GENERAL)	A	158.851	0	0.000	13.769	0	0.000	20.162	0	0.000	3.053
H1RC7	REMAINING VA CLASS TRAINERS	A	27.792	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
H1RC8	INTERMEDIATE & DEPOT (I&D) SUPPORT EQUIPMENT	A	39.953	0	0.000	6.381	0	0.000	8.328	0	0.000	2.500
H1RC9	WEST COAST SEAFAC	A	28.170	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HRC10	VOYAGE MANAGEMENT SYSTEM	A	7.038	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HRC11	VIRGINIA CLASS SUP[ORT EQUIPMENT	A	12.185	0	0.000	0.000	0	0.000	4.378	0	0.000	7.200
HRC13	TECH INSERTION TECH REFRESH & UPGRADES	A	357.014	0	0.000	79.524	0	0.000	81.011	0	0.000	80.589
HRC14	SURVIVAL EQUIPMENT FOR SEA RIDERS		0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.735



<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>										
<b>EXHIBIT P-5 COST ANALYSIS (CONTINUATION)</b>				Weapon System							DATE February 2011	
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>				ID Code <b>A</b>		P-1 LINE ITEM NOMENCLATURE <b>VIRGINIA CLASS SUPPORT EQUIPMENT SUBHEAD NO. H1RC</b>						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
<b>HRC16</b>	SHIP CONTROL TACT LAB SET FOR REDESIGN CONFIGURATION		0.000	0	0.000	0.000	1	4.120	4.120	0	0.000	4.400
<b>HRC17</b>	MODERN LEGACY CRYPTO SYSTEM	A	3.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
<b>SCA1R</b>	SHIPBOARD WIRELESS MOBILE COMPUTING(NTDPS WIRELESS LAN)	A	7.200	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
<b>SCA2R</b>	VA MAINTENANCE PLANNING SYSTEM TECHNOLOGY	A	1.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
<b>WAXXX</b>	ACQUISITION WORKFORCE FUND 2009		0.927	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	<b>TOTAL EQUIPMENT</b>		<b>693.725</b>			<b>99.984</b>			<b>132.039</b>			<b>100.693</b>
	<b>TOTAL</b>		<b>693.725</b>			<b>99.984</b>			<b>132.039</b>			<b>100.693</b>
<b>Comment:</b> VARIOUS QUANTITIES												

CLASSIFICATION: UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			DATE: February 2011		
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
<b>FY 2010</b> VLS Peculiar Support Equipment (VLS-PSE) AUR Ballast Cans Acq. Life Cycle Supt.	8	39	NUWC	Oct-09	WR	NUWC Newport, RI	Jan-10	Apr-10	Yes	Oct-04
Major Shore Spares										
Propulsor - Rotatable Pool Rotors	Various	6,654	NAVSEA	Aug-07	WR; SS/CPIF	Naval Foundry & Propeller Ctr., Phila., PA, NSWC Carderock, MD/ PTI Bridgeville, PA / Electric Boat, Groton, CT	Apr-10	Oct-11	Yes	NA
Rotatable Pool Miscellaneous (Pumps/Motors/Accumulators)	Various	7,115	NAVSEA	Oct-09	SS/CPIF	Electric Boat, Groton, CT	Jan-10	Dec-10	Yes	Dec-04
Intermediate & Depot (I&D) Support Equipment										
'ER, Valve, Pump Tools, HFCA Tools	Various	1,673	NAVSEA	Oct-09	SS/CPIF	Electric Boat, Groton, CT / Oceaneering, Chesapeake, VA	Jan-10	Sep-10	Yes	NA
Diesel, Mast, LWVAA, Array, SPS, and SHT Tools	Various	3,247	NAVSEA	Oct-09	SS/CPIF	Electric Boat, Groton, CT / Oceaneering, Chesapeake, VA	Jan-10	Sep-10	Yes	NA
Electrical Ship Systems Special Tooling	Various	461	NAVSEA	Oct-09	SS/CPIF	Oceaneering, Chesapeake, VA	Jan-10	Sep-10	Yes	NA
Bow Dome Tools	Various	1,000	NAVSEA	Nov-09	SS/CPIF	Electric Boat, Groton, CT	Dec-09	Sep-10	Yes	NA
Modernization & Technology Upgrades										
HM&E Tech Refresh	Various	663	NAVSEA/NUWC KPT	May-10	SS/CPIF	Electric Boat, Groton, CT / NUWC, Keyport, WA	Jul-10	May-11	Yes	Jan-09
NPES Tech Refresh	Various	714	NAVSEA/NUWC KPT	May-10	SS/CPIF	Electric Boat, Groton, CT / NUWC, Keyport, WA	May-10	May-11	Yes	Jan-09
VA Platform Modernization	Various	46,435	NAVSEA	Oct-09	SS/CPIF	Electric Boat, Groton, CT	Feb-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	Jan-10	Jun-10	Yes	NA
System Level Activities PSA/Post PSA	Various	1,683	NAVSEA	Aug-09	SS/CPIF	Electric Boat, Groton, CT	Mar-10	Feb-10	Yes	NA
NTDPS Software	Various	4,955	NAVSEA	Oct-09	SS/CPFF	Progeny Systems, Manassas, VA	Feb-10	Jan-11	Yes	NA
VA CI Air Turbine Pump Sprague Clutch	Various	93	NAVSEA	Oct-09	WR	NUWC Newport, RI	Nov-09	Jan-10	No	NA
Deep Electromagnetic Research Measurement Array (DERMA) Upgrade	Various	3,440	NAVSEA	Dec-09	WX	NSWC Carderock, MD	Jan-10	Jun-10	Yes	NA
HM&E and CFE NPES Modernization	Various	19,596	NAVSEA	Oct-09	SS/CPIF	Electric Boat, Groton, CT	Dec-09	Jan-10	Yes	Oct-07
Propulsor Backfit Corrosion Prevention Features	Various	925	NAVSEA	Oct-09	SS/CPIF	Electric Boat, Groton, CT	Nov-09	Jan-10	Yes	NA

CLASSIFICATION: UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			DATE: February 2011			
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	
<b>FY 2011</b>											
VIRGINIA Class SOF Support	Various	820	NAVSEA	Jan-11	WR	NUWC Keyport, RI	Mar-11	Sep-11	No	Sep-08	
VLS Peculiar Support Equipment (VLS-PSE)	Various	10,470	NUWC	Oct-10	WR	NUWC Newport, RI	Feb-11	Jun-11	Yes	Oct-07	
Major Shore Spares Insurance Spares											
Propulsor - Rotatable Pool Rotors	Various	7,442	NAVSEA	Dec-10	WR	Naval Foundry & Propeller Ctr., Phila., PA	Jan-11	Dec-12	Yes	NA	
Propulsor - ILS Parts	Various	5,945	NAVSEA	Jan-10	WR/SS/CPIF/Option	BAE Systems LP, Minneapolis, MN/ Naval Foundry & Propeller Ctr., Phila., PA	Mar-11	Jan-12	Yes	NA	
Miscellaneous Fans/Pumps/Motors	Various	3,750	NAVSEA	Sep-10	SS/CPIF	Electric Boat, Groton, CT	Jan-11	May-11	Yes	Dec-04	
Rotatable Pool											
CO-H2 Burner	1	500	NAVSEA	Aug-10	SS/CPIF	Electric Boat, Groton, CT	Feb-11	May-12	Yes	Dec-04	
ILPE Blower/Motor	1	225	NAVSEA	Sep-10	SS/CPIF	Electric Boat, Groton, CT	Feb-11	May-11	Yes	Dec-04	
Sanitary Pump/Motor	2	300	NAVSEA	Sep-10	SS/CPIF	Electric Boat, Groton, CT	Feb-11	Sep-11	Yes	Dec-04	
Main Propulsion Shaft	1	2,000	NAVSEA	Mar-11	SS/CPIF	Electric Boat, Groton, CT	May-11	Sep-14	Yes	Oct-04	
Intermediate & Depot (I&D) Support Equipment											
Engine Room (Valve and Pump Tools, Shaft Equip)	Various	2,900	NAVSEA	Oct-10	SS/CPIF	Oceaneering, Chesapeake, VA	Feb-11	Sep-11	Yes	NA	
Auxiliary Equipment and SHT Tools	Various	798	NAVSEA	Oct-10	SS/CPIF	Oceaneering, Chesapeake, VA	Jan-11	Sep-11	Yes	NA	
Weapons Equipment (VLS, MAC VPT, Torpedo Tube).	Various	1,430	NAVSEA	Oct-10	WR	NUWC Newport, RI and Oceaneering, Chesapeake, VA	Jan-11	Sep-11	Yes	NA	
Sensors (Towed Array, Bow Dome, Chin Array)	Various	2,200	NAVSEA	Oct-10	SS/FP	NUWC Newport, RI and Oceaneering, Chesapeake, VA	Jan-11	Sep-11	Yes	NA	
Shaft/Propulsor Handling Equipment	Various	1,000	NAVSEA	Oct-10	SS/FP	NUWC Newport, RI and Oceaneering, Chesapeake, VA	Jan-11	Sep-11	Yes	NA	
Test & Evaluation (T&E) Measuring Equipment	Various	2,750	NAVSEA	Oct-10	WR	NSWC Carderock, MD	Nov-10	Jan-11	Yes	NA	
Virginia Class Support											
ISEA Labs	Various	4,378	NAVSEA	Oct-10	WR	Electric Boat, Groton, CT / NUWC Newport, RI	Jan-11	Apr-11	Yes	Oct-07	
Ship Control Tact Lab Set for Redesign Configurator	Various	4,120	NAVSEA	Jun-10	SS/CPIF	Electric Boat, Groton, CT	Apr-11	Apr-12	No	NA	

CLASSIFICATION: UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			DATE: February 2011			
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	
<b>FY 2011</b>											
Modernization & Technology Upgrades											
HM&E Tech Refresh	Various	1,353	NAVSEA/NUWC KPT	May-11	SS/CPIF	Electric Boat, Groton, CT / NUWC, Keyport, WA	Mar-11	May-12	Yes	Jan-09	
NPES Tech Refresh	Various	1,457	NAVSEA/NUWC KPT	May-10	SS/CPIF	Electric Boat Groton, CT / NUWC, Keyport, WA	Mar-11	May-12	Yes	Jan-09	
Shipboard Mobile Computing NTDPS (ULAN + SW Enclave + PODS + Upgrades)	Various	2,081	NAVSEA	Aug-10	SS/FP	Electric Boat, Groton, CT	Mar-11	Jun-11	Yes	NA	
VA Platform Modernization	Various	45,012	NAVSEA	Oct-10	SS/CPIF	Electric Boat, Groton, CT	Mar-11	Jan-12	Yes	NA	
System Level Activities PSA/Post PSA	Various	1,717	NAVSEA	Aug-10	SS/CPIF	Electric Boat, Groton, CT	Mar-11	Feb-11	Yes	NA	
NTDPS Software	Various	5,044	NAVSEA	Oct-10	SS/CPFF	Progeny Systems, Manassas, VA	Mar-11	Jan-12	Yes	NA	
VA CI Air Turbine Pump Sprague Clutch	Various	96	NAVSEA	Oct-10	WR	NUWC Newport, RI	Jan-11	Feb-11	No	NA	
HM&E and CFE NPES Modernization	Various	16,351	NAVSEA	Oct-10	SS/CPIF	Electric Boat, Groton, CT	Dec-10	Jan-11	Yes	Oct-07	
O2 Recompression Backfit	Various	900	NAVSEA	Feb-11	SS/CPIF	Electric Boat, Groton, CT	Mar-11	Sep-11	No	Apr-09	
SCS Modernization Backfit	Various	7,000	NAVSEA	Aug-10	SS/CPIF	Electric Boat, Groton, CT	Mar-11	Apr-12	No	N/A	

CLASSIFICATION:

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			DATE: February 2011		
B. APPROPRIATION/BUDGET ACTIVITY BA-1: SHIPS SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE					SUBHEAD	
				VIRGINIA CLASS SSN Support Equipment BLI: 094200					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
<b>FY 2012</b>										
T&E Measuring Equipment	Various	2,216	NAVSEA	Oct-11	WR	NSWC Carderock, MD	Nov-11	Jan-12	Yes	NA
Major Shore Spares										
Propulsor ILS Parts	Various	3,053	NAVSEA	Sep-10	WR/SS/CP/IF /Option	BAE Systems LP, Louisville, KY/NSWC Carderock, MD/PTI Bridgeville, PA/ Naval Foundry & Propeller Ctr., Phila., PA,	Oct-11	Jan-13	Yes	NA
Intermediate & Depot (I&D) Support Equipment										
Engine Room (Valve, Pump and Generator Tools)	Various	1,430	NAVSEA	Oct-11	SS/CPFF	Oceaneering, Chesapeake, VA	Nov-11	Sep-12	Yes	N/A
Weapons Equipment (VLS, MAC VPT, Torpedo Tube)	Various	1,070	NAVSEA	Oct-11	WR	NUWC Newport, RI	Nov-11	Sep-12	Yes	N/A
Modernization & Technology Upgrades										
HM&E Tech Refresh	Various	1,380	NAVSEA/NUWC KPT	May-11	SS/CP/IF	Electric Boat, Groton, CT/ NUWC, Keyport, WA	May-12	May-13	Yes	Jan-09
NPES Tech Refresh	Various	1,486	NAVSEA/NUWC KPT	May-10	SS/CP/IF	Electric Boat, Groton, CT/ NUWC, Keyport, WA	May-12	May-13	Yes	Jan-09
Shipboard Mobile Computing NTDPS (ULAN + SW Enclave + PODS + Upgrades)	Various	2,122	NAVSEA	Aug-11	SS/FP	Electric Boat, Groton, CT	Nov-11	Jun-12	Yes	NA
VA Platform Modernization	Various	46,038	NAVSEA	Oct-11	SS/CP/IF	Electric Boat, Groton, CT	Jan-12	Jan-13	Yes	NA
System Level Activities PSA/Post PSA	Various	1,751	NAVSEA	Aug-11	SS/CP/IF	Electric Boat, Groton, CT	Nov-11	Feb-12	Yes	NA
NTDPS Software	Various	5,135	NAVSEA	Oct-11	SS/CPFF	Progeny Systems, Manassas, VA	Jan-12	Jan-13	Yes	NA
VA CI Air Turbine Pump Sprague Clutch	Various	96	NAVSEA	Oct-11	WR	NUWC Newport, RI	Nov-11	Jan-12	No	NA
HM&E and CFE NPES Modernization	Various	18,575	NAVSEA	Oct-11	SS/CP/IF	Electric Boat, Groton, CT	Nov-11	Jan-12	Yes	Oct-07
O2 Recompression Backfit	Various	900	NAVSEA	Oct-11	SS/CP/IF	Electric Boat, Groton, CT	Jan-12	Sep-12	No	Apr-09
Horizontal Launch Sys Pressure Vent Control	Various	1,000	NAVSEA	Oct-11	SS/CP/IF	Electric Boat, Groton, CT	Jan-12	Sep-12	No	Sep-08
SCS Modernization Backfit	Various	2,106	NAVSEA	Aug-11	SS/CP/IF	Electric Boat, Groton, CT	Jan-12	Apr-13	No	N/A
Virginia Class Support										
ISEA Labs	Various	7,200	NAVSEA	Oct-10	SS/CP/IF	Electric Boat, Groton, CT / NUWC Newport, RI	Nov-11	Apr-12	Yes	Oct-07
Survival Equipment	Various	735	NAVSEA	Oct-11	SS/CP/IF	Electric Boat, Groton, CT	Jan-12	Sep-12	No	Feb-10
Ship Control Tact Lab Set for Redesign Configuration	Various	4,400	NAVSEA	Jun-10	SS/CP/IF	Electric Boat, Groton, CT	Jan-12	Dec-12	No	NA

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>												
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION</b>											<b>DATE</b> February 2011			
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>						<b>P-1 LINE ITEM NOMENCLATURE</b> SUBMARINE BATTERIES <b>SUBHEAD NO. H1HM BLI: 0945</b>								
Program Element for Code B Items						Other Related Program Elements								
	Prior Years	ID Code		FY 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total
Quantity	0			0	0	0	0	0	0	0	0	0	0	0
COST ( In Millions)	133.1	A		44.9	44.1	42.3	0.0	42.3	42.1	25.4	13.4	13.7	0.0	359.0
SPARES COST ( In Millions)	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
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>														
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 and installs initial VRLA batteries for 31 SSN688 Class, 3 SSN21 Class, 3 SSGN Class, 10 SSBN Class and 5 SSN774 Class Submarines. Batteries have a finite life and are consumables. Therefore, the budget also procures replacement VRLA batteries at a notional 8 year replacement cycle. Procurement with ABMS are new installation and procurement without ABMS are life cycle replacements. Installation of replacement batteries are funded by the Submarine Type Commander.														
<b>VRLA LOS ANGELES - HM002</b>														
Procurement of a low maintenance sealed lead acid battery which involves adapting commercial Valve Regulated Lead Acid (VRLA) technology to submarines. This replaces flooded battery technology for which the industrial base ceased manufacture and support of in FY05. Installation of VRLA battery require extensive battery well modification (SHIPALT) unique for each submarine class. All dates for VRLA installation on Los Angeles Class submarines are based on the FMPMIS schedule of 10 May 2010. Installation unit costs vary due to the availability types, location of installation and submarine type. Ships are shown below in the FY of installation funding. Since submittal of PB-11 budget, SSN 759 has moved from FY12 to FY14. Additional replacement battery procurements are required in FY10 and FY11 due to premature battery failures.														
Availability Types:														
DMP Depot Modernization Period														
EOH Engineered Overhaul														
DSRA Drydocking Selected Restricted Availability														
Prior Years														
SSN 768 DMP    SSN 770 DMP    SSN 723 EOH    SSN 725 EOH    SSN 767 DSRA														
SSN 763 DMP    SSN 772 DMP    SSN 764 DSRA    SSN 721 EOH														
SSN 724 EOH    SSN 773 DMP    SSN 719 DSRA    SSN 761 DSRA														

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>			
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>					<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>			<b>P-1 LINE ITEM NOMENCLATURE</b> SUBMARINE BATTERIES <b>SUBHEAD NO. H1HM BLI: 0945</b>		
<b>FY10</b>	<b>FY11</b>	<b>FY12</b>	<b>FY13</b>	<b>FY14</b>	<b>FY15</b>
SSN 751 EOH	SSN 766 DSRA	SSN 755 EOH	SSN 754 EOH	SSN 756 EOH	SSN 765 EOH
SSN 722 EOH	SSN 752 EOH	SSN 720 DSRA	SSN 769 DSRA	SSN 759 EOH	
SSN 762 DSRA	SSN 750 EOH	SSN 771 DSRA	SSN 757 EOH	SSN 760 EOH	
			SSN 753 EOH		
			SSN 758 EOH		
<b>VRLA OHIO - HM008</b>					
Procurement of a low maintenance sealed lead acid battery which involves adapting commercial Valve Regulated Lead Acid (VRLA) technology to submarines. This replaces flooded battery technology for which the industrial base ceased manufacture and support of in FY05. Installation of VRLA battery require extensive battery well modification (SHIPALT) unique for each submarine class. All dates for VRLA installation on Ohio Class submarines are based on the FMPMIS schedule of 10 May 2010. Installation unit costs vary due to the availability types, location of installation and submarine type. Ships are shown below in the FY of installation funding. Since submittal of PB-11 budget, SSBN 727 has been postponed due to budget reductions.					
Availability Types:					
ERO	Engineered Refueling Overhaul				
ERP	Extended Refit Period				
MMP	Major Maintenance Period				
<b>Prior Years</b>	<b>FY10</b>	<b>FY11</b>	<b>FY12</b>	<b>FY13</b>	
SSBN 740 ERP	SSBN 742 ERP	SSBN 743 ERP	SSBN 730 ERP	SSBN 738 ERO	
SSBN 741 ERP	SSGN 728 MMP	SSBN 736 ERO	SSBN 737 ERO	SSGN 726 ERP	
	SSBN 735 ERO	SSGN 729 MMP			
	(SCN Procurement)				
FY14	FY15	To Complete			
SSBN 739 ERO					
<b>VRLA SEAWOLF - HM009</b>					
Procurement of a low maintenance sealed lead acid battery which involves adapting commercial Valve Regulated Lead Acid (VRLA) technology to submarines. This replaces flooded battery technology for which the industrial base ceased manufacture and support of in FY05. Installation of VRLA battery require extensive battery well modification (SHIPALT) unique for each submarine class. All dates for VRLA installation on SEAWOLF Class submarines are based on the FMPMIS schedule of 10 May 2010. Installation unit costs vary due to the availability types, location of installation and submarine type. Ships are shown below in the FY of installation funding and SEAWOLF class installation of VRLA Shipalt was completed in FY08. Replacement battery procurement was required in FY10					

<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>			
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>				<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>		<b>P-1 LINE ITEM NOMENCLATURE</b> SUBMARINE BATTERIES <b>SUBHEAD NO. H1HM BLI: 0945</b>		
due to premature battery failure.				
Availability Types:				
DPMA	Drydocking Phased Maintenance Availability			
Special	Non-CNO Scheduled Availability			
Prior Years				
SSN 22 Special	SSN 21 Special	SSN 23 DPMA		
<b>VRLA VIRGINIA - HM010</b>				
Procurement of a low maintenance sealed lead acid battery which involves adapting commercial Valve Regulated Lead Acid (VRLA) technology to submarines. This replaces flooded battery technology for which the industrial base ceased manufacture and support of in FY05. Installation of VRLA battery require extensive battery well modification (SHIPALT) unique for each submarine class. All dates for VRLA installation on Virginia Class submarines are based on the FMPMIS schedule of 10 May 2010. Installation unit costs vary due to the availability types, location of installation and submarine type. Ships are shown below in the FY of installation funding. Since submittal of PB-11 budget, SSN 778 has been postponed due to budget reductions.				
Availability Types:				
EDSRA	Extended Drydocking Selected Restricted Availability			
FY10	FY11	FY12	FY13	FY14
SSN 774 EDSRA		SSN 775 EDSRA		
FY15	FY16	To Complete		
SSN 776 EDSRA	SSN 777 EDSRA	SSN 779 EDSRA		
<b>PRODUCTION ENGINEERING - HM830</b>				
NSWC Crane is the designated procurement activity and in-service engineering agent(ISEA) to monitor battery performance and establish replacement schedules with the fleet. NSWC Crane also conducts qualification testing of VRLA cells. In addition to this being a Performance Specification 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. 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. 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.				
<b>INSTALLATION - HM5IN</b>				
Installation funds are provided to the AITs to accomplish execution of new VRLA battery installations in submarines. Installation of replacement batteries are funded by the TYCOM. Installation unit costs will vary due to the availability types, location of installation, and submarine type.				



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		SUBMARINE BATTERIES				
								SUBHEAD NO. H1HM				
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<b><u>EQUIPMENT</u></b>											
<b>HM002</b>	<b><u>LOS ANGELES CLASS MAIN STORAGE BATTERY</u></b>											
	VRLA LOS ANGELES	A	0.836	2	0.500	0.999	1	1.100	1.100	0	0.000	0.000
	VRLA LOS ANGELES + ABMS	A	12.451	0	0.000	0.000	4	0.735	2.939	5	0.746	3.731
	VRLA LOS ANGELES MATERIAL	A	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	6.274
<b>HM008</b>	<b><u>OHIO CLASS MAIN STORAGE BATTERY</u></b>											
	VRLA OHIO + ABMS	A	0.000	2	2.187	4.374	0	0.000	0.000	0	0.000	0.000
	VRLA OHIO + ABMS	A	7.766	1	2.187	2.187	2	2.206	4.412	2	2.237	4.473
	VRLA OHIO MATERIAL	A	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	3.478
<b>HM009</b>	<b><u>SEAWOLF CLASS MAIN STORAGE BATTERY</u></b>											
	VRLA SEAWOLF	A	0.000	1	0.749	0.749	0	0.000	0.000	1	1.198	1.198
	VRLA SEAWOLF + ABMS	A	3.536	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
<b>HM010</b>	<b><u>VIRGINIA CLASS MAIN STORAGE BATTERY</u></b>											
	VRLA VIRGINIA + ABMS	A	0.000	1	1.377	1.377	1	1.486	1.486	0	0.000	0.000
<b>HM830</b>	PRODUCTION ENGINEERING	A	18.809	0	0.000	3.780	0	0.000	3.996	0	0.000	2.449
	<b>TOTAL EQUIPMENT</b>		<b>43.398</b>			<b>13.466</b>			<b>13.933</b>			<b>21.603</b>
	<b><u>INSTALLATION</u></b>											
<b>HM5IN</b>	FMP INSTALLATION		89.665	0	0.000	31.477	0	0.000	30.124	0	0.000	20.693
	<b>TOTAL INSTALLATION</b>		<b>89.665</b>			<b>31.477</b>			<b>30.124</b>			<b>20.693</b>
	<b>TOTAL</b>		<b>133.063</b>			<b>44.943</b>			<b>44.057</b>			<b>42.296</b>

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>										
<b>EXHIBIT P-5 COST ANALYSIS (CONTINUATION)</b>					Weapon System					DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>					ID Code <b>A</b>		P-1 LINE ITEM NOMENCLATURE <b>SUBMARINE BATTERIES</b> <b>SUBHEAD NO. H1HM</b>					
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010			FY 2011			FY 2012		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
<b>Comment:</b> Remarks: (1)Material funds identified are for ancillary material required to set up for and support installations. Starting in FY12, these funds are moved from installation to procurement and shown as separate line items to better reflect the required funding profile. (2)FY11 & FY13 VRLA LOS ANGELES (without ABMS)unit costs include SHIPALT 4348K spin lock trays(\$0.6M) to support life cycle replacement procedures, so unit cost is higher than bettery with ABMS.												

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE February 2011	
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 2010										
<b>HM002 LOS ANGELES CLASS MAIN STORAGE BATTERY</b> VRLA LOS ANGELES	2	0.500			C/OPT	ENERSYS WARRENSBURG MO	JUN-10	JAN-11	YES	
<b>HM008 OHIO CLASS MAIN STORAGE BATTERY</b> VRLA OHIO + ABMS	2	2.187	NSWC CRANE		C/OPT	ENERSYS WARRENSBURG MO	MAR-10	FEB-11	YES	
VRLA OHIO + ABMS	1	2.187	NSWC CRANE		C/FP	ENERSYS WARRENSBURG MO	AUG-10	JUN-11	YES	
<b>HM009 SEAWOLF CLASS MAIN STORAGE BATTERY</b> VRLA SEAWOLF	1	0.749			C/OPT	ENERSYS WARRENSBURG MO	APR-10	FEB-11	YES	
<b>HM010 VIRGINIA CLASS MAIN STORAGE BATTERY</b> VRLA VIRGINIA + ABMS	1	1.377	NSWC CRANE		C/OPT	ENERSYS WARRENSBURG MO	MAR-10	MAR-11	YES	
FY 2011										
<b>HM002 LOS ANGELES CLASS MAIN STORAGE BATTERY</b> VRLA LOS ANGELES	1	1.100	NSWC CRANE		C/OPT	ENERSYS WARRENSBURG MO	JAN-11	JAN-12	YES	
VRLA LOS ANGELES + ABMS	4	0.735	NSWC CRANE		C/OPT	ENERSYS WARRENSBURG MO	JAN-11	JAN-12	YES	
<b>HM008 OHIO CLASS MAIN STORAGE BATTERY</b> VRLA OHIO + ABMS	2	2.206	NSWC CRANE		C/OPT	ENERSYS WARRENSBURG MO	JAN-11	OCT-11	YES	
<b>HM010 VIRGINIA CLASS MAIN STORAGE BATTERY</b> VRLA VIRGINIA + ABMS	1	1.486	NSWC CRANE		C/OPT	ENERSYS WARRENSBURG MO	MAY-11	MAY-12	YES	
FY 2012										
<b>HM002 LOS ANGELES CLASS MAIN STORAGE BATTERY</b> VRLA LOS ANGELES + ABMS	5	0.746	NSWC CRANE		C/OPT	ENERSYS WARRENSBURG MO	JAN-12	AUG-12	YES	
<b>HM008 OHIO CLASS MAIN STORAGE BATTERY</b> VRLA OHIO + ABMS	2	2.237	NSWC CRANE		C/OPT	ENERSYS WARRENSBURG MO	JUL-12	JUL-13	YES	
<b>HM009 SEAWOLF CLASS MAIN STORAGE BATTERY</b> VRLA SEAWOLF	1	1.198	NSWC CRANE		C/OPT	ENERSYS WARRENSBURG MO	JAN-12	JAN-13	YES	

Remark: (1)C/OPT type procurements are options on a previous FY contract; award date is date option is exercised. C/FP type procurements are a new contract awarded on date shown.

<b>CLASSIFICATION:</b>					<b>UNCLASSIFIED</b>						
<b>Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)</b>					Weapon System				<b>DATE</b> February 2011		
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>					<b>P-1 LINE ITEM NOMENCLATURE</b> <b>SUBMARINE BATTERIES</b> <b>BLIN: 0945</b>				<b>SUBHEAD</b> <b>H1HM</b>		
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
(2)FY11 & FY13 VRLA LOS ANGELES (without ABMS)unit costs include SHIPALT 4348K spin lock trays(\$0.6M) to support life cycle replacement procedures, so unit cost is higher than bettery with ABMS.											

**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. Installation unit costs may vary depending on location and type of availability. Replacement batteries are not shown because installations are funded by TYCOM.

**DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:**

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN (IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	17	12.5			4	2.9	5	3.7	3	2.3	2	1.6								31	23.0
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	13	65.8	3	10.6	3	18.5	3	9.0	5	16.0	3	9.2	1	2.2						31	131.3
<u>TOTAL PROCUREMENT</u>		78.3		10.6		21.4		12.7		18.3		10.8		2.2							154.3

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED LOS ANGELES CLASS MAIN STORAGE BATTERY VRLA LOS ANGELES + ABMS	MODIFICATION TITLE: SUBMARINE BATTERIES
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 3 Months      PRODUCTION LEADTIME: 6-12 Months

CONTRACT DATES:	FY 2010:	FY 2011:	JAN-11	FY 2012:	JAN-12
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DELIVERY DATES:	FY 2010:	FY 2011:	JAN-12	FY 2012:	AUG-12
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	13	65.8	3	10.6	1	6.2													17
FY 2010 EQUIPMENT																				
FY 2011 EQUIPMENT					2	12.3	2	6.0											4	18.3
FY 2012 EQUIPMENT							1	3.0	4	12.8									5	15.8
FY 2013 EQUIPMENT									1	3.2	2	6.1							3	9.3
FY 2014 EQUIPMENT											1	3.1	1	2.2					2	5.3
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	13	0	1	1	1	0	0	0	3	0	1	0	2	2	2	0	1	0	0	1	2	0	0	0	1	0	0	0	0	0	31
Out	13	0	0	0	1	1	1	0	0	0	3	0	1	0	2	2	2	0	1	0	0	1	2	0	0	0	1	0	0	0	31

Remarks: (1)Installation funds must be in place at the start of availability. The availability start date can be up to six (6) months prior to battery delivery. (2)The delivery date identified at the top of the page is the battery delivery date and not the start of the availability.

Installation unit costs are lower in FY12 and later, because of realignment of ancillary material costs from Installation to Procurement as noted in the P-5 remarks.

One of the two 4th quarter FY12 installation starts( SSN 771 DSRA), require battery delivery in July 2012, therefore FY11 procurement is necessary to minimize risk.

**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. Installation unit costs may vary depending on location and type of availability. Replacement batteries are not shown because installations are funded by TYCOM.

**DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:**

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN (IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	3	7.8	3	6.6	2	4.4	2	4.5	1	2.3					1	2.3				12	27.9
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	2	9.1	3	14.3	3	11.5	2	7.2	2	7.0	1	2.4					1	2.7	14	54.2	
<u>TOTAL PROCUREMENT</u>		16.9		20.9		15.9		11.7		9.3		2.4				2.3		2.7		82.1	

CLASSIFICATION: UNCLASSIFIED															February 2011																									
EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)																																								
MODELS OF SYSTEM AFFECTED OHIO CLASS MAIN STORAGE BATTERY VRLA OHIO + ABMS															MODIFICATION TITLE: SUBMARINE BATTERIES																									
INSTALLATION INFORMATION:																																								
METHOD OF IMPLEMENTATION:															AIT																									
ADMINISTRATIVE LEADTIME:										3 Months					PRODUCTION LEADTIME:					6-12 Months																				
CONTRACT DATES:										FY 2010:		MAR-10			FY 2011:		JAN-11			FY 2012:		JUL-12																		
DELIVERY DATES:										FY 2010:		FEB-11			FY 2011:		OCT-11			FY 2012:		JUL-13																		
(\$ in Millions)																																								
COST															Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL							
															Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$				
PRIOR YEARS															2	9.1	2	9.6																		4	18.7			
FY 2010 EQUIPMENT																	1	4.8	3	11.5																	4	16.3		
FY 2011 EQUIPMENT																					2	7.1																2	7.1	
FY 2012 EQUIPMENT																							2	7.0														2	7.0	
FY 2013 EQUIPMENT																									1	2.4												1	2.4	
FY 2014 EQUIPMENT																																								
FY 2015 EQUIPMENT																																								
FY 2016 EQUIPMENT																																					1	2.7	1	2.7
TO COMPLETE																																								
INSTALLATION SCHEDULE																																								
	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL									
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4											
In	2	0	1	1	1	0	0	1	1	0	1	1	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0									
Out	2	0	0	0	1	1	1	0	0	1	1	0	1	1	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0									
Remarks: (1)Funding for OHIO Class VRLA Battery procurement and Shipalt installations during ERO availabilities shifted from SCN to OPN starting in FY10. (2)VRLA Battery and Automatic Battery Monitoring Systems procurement for installation on USS PENNSYLVANIA (SSBN735) in FY10 was procured in FY09 using SCN funding. (3)USS MICHIGAN(SSGN727), procurement and installation canceled in FY15 due to reduction in controls. (4)Installation funds must be in place at the start of availability. The availability start date can be up to six (6) months prior to battery delivery. (5)The delivery date identified at the top of the page is the battery delivery date and not the start of the availability. FY12 procurements will be on one single contract for all classes, therefore, contract dates are driven by 688 delivery dates and not OHIO delivery dates. Installation unit costs are lower in FY12 and later, because of realignment of ancillary material costs from Installation to Procurement as noted in the P-5 remarks.																																								



**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. Installation unit cost may vary depending on location and type of availability. Replacement batteries are not shown because installations are funded by TYCOM.

**DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:**

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	<i>FINANCIAL PLAN (IN MILLIONS)</i>																				
<i>RDT&amp;E</i>																					
<i>PROCUREMENT</i>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT			1	1.4	1	1.5					1	1.5	1	1.6	1	1.6				5	7.6
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST			1	6.6			1	4.6					1	4.3	1	4.3	1	4.3	5	24.1	
<b>TOTAL PROCUREMENT</b>				8.0		1.5		4.6				1.5		5.9		5.9		4.3		31.7	

CLASSIFICATION: UNCLASSIFIED February 2011

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED: VIRGINIA CLASS MAIN STORAGE BATTERY VRLA VIRGINIA + ABMS  
 MODIFICATION TITLE: SUBMARINE BATTERIES

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 6-12 Months

CONTRACT DATES: FY 2010: MAR-10 FY 2011: MAY-11 FY 2012:

DELIVERY DATES: FY 2010: MAR-11 FY 2011: MAY-12 FY 2012:

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS																					
FY 2010 EQUIPMENT			1	6.6																1	6.6
FY 2011 EQUIPMENT							1	4.6												1	4.6
FY 2012 EQUIPMENT																					
FY 2013 EQUIPMENT																					
FY 2014 EQUIPMENT												1	4.3							1	4.3
FY 2015 EQUIPMENT														1	4.3					1	4.3
FY 2016 EQUIPMENT																1	4.3			1	4.3
TO COMPLETE																					

**INSTALLATION SCHEDULE**

	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	5	
Out	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	5		

Remarks: (1)USS NEW HAMPSHIRE (SSN778), procurement in FY15 and installation in FY16 canceled due to reduction in controls. (2) Installation funds must be in place at the start of availability. The availability start date can be up to six (6) months prior to battery delivery. (2)The delivery date identified at the top of the page is the battery delivery date and not the start of the availability.  
 Installation unit costs are lower in FY12 and later, because of realignment of ancillary material costs from Installation to Procurement as noted in the P-5 remarks.

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>												
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION</b>											<b>DATE</b> February 2011			
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>						<b>P-1 LINE ITEM NOMENCLATURE</b> STRATEGIC PLATFORM SUPPORT EQUIP <b>SUBHEAD NO. H1HH BLI: 0950</b>								
Program Element for Code B Items						Other Related Program Elements								
	Prior Years	ID Code		FY 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total
Quantity	0			0	0	0	0	0	0	0	0	0	0	0
COST ( In Millions)	22.6	A		18.9	22.8	25.2	0.0	25.2	20.8	17.8	18.3	18.6	0.0	165.0
SPARES COST ( In Millions)	3.5	0		1.3	1.0	0.6	0.0	0.6	0.5	3.9	1.4	1.1	0.0	13.3
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>														
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) are dedicated shore support facilities 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.														
<b>HM&amp;E AND STRATEGIC WEAPONS SYSTEMS/SUPPORT SUBSYSTEM (SWS/SS) ALTERATIONS (HH009)-</b>														
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 equipment with new equipment 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 are 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. Starting in FY12, SSBN SWS OER Upgrades are planned for Ventilation Alarm Monitoring Panel (VAMP) and the Missile Heating and Cooling Proportional Controllers. Both upgrades are required to support Strategic Programs' SWS Integration program (Mod6/Mod7) which replaces the current Launcher, Fire Control and Weapons Support electronics.														
<b>TRIDENT ENGINEERED AVAILABILITY (EA) (HH012)</b>														
TRIDENT Engineered Availability (EA) material support funding is required to provide replacement and contingency material to support the critical path schedule during the SSBN 726 Class 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														

<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> STRATEGIC PLATFORM SUPPORT EQUIP <b>SUBHEAD NO. H1HH BLI: 0950</b>	
<p>required to reduce EA scheduled durations. This program also provides funding for installation of Depot level alterations packages, Quality Assurance (QA) oversight and certification by Supervisor Of Shipbuilding, Groton (SOS Groton) of OPN shipalts performed by Electric Boat Corporation (EB), Liaison Action Requests and Selected Record Drawings (LAR/SRD) mark ups for Shipalt related work, NUWC Newport test support and deck plate coordination of Alteration Installation Team (AIT) work for Extended Refit Periods (ERPs) / modernization periods.</p> <p><b>SSTG ROTORS (HH013)</b> Provides for the procurement of material and manufacturing of Ships Service Turbine Generator (SSTG) Rotors on OHIO Class submarines. This cost code was established for FY10. This is due to shifting Engineered Refueling Overhauls (EROs) beginning in FY10 from SCN funded to O&amp;MN, OPN, and WPN funded. This rotor effort used to be in the SSBN ERO SCN line and the transferred funding for this effort is OPN. Replaces both SSTG rotors port and starboard. 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. Starting in FY12, the last procurement, a Major Shore Spare (MSS), is procured with no installation required.</p> <p><b>SSGN MODIFICATIONS (HH0GN)</b> Provides for procurement of SSGN unique system components that will be installed during planned modernization periods. Also provides funding to perform integrated testing of these unique systems to ensure satisfactory operation with other HM&amp;E and Combat Systems. Beginning in FY11, funds are provided for procurement of Submarine Special Operations Forces (SOF) unique system components that will be installed during planned modernization periods.</p> <p><b>HM&amp;E INSTALLATION</b> Provides for the installation of SSTG Rotors on the OHIO Class Submarines, FY10, FY12-13. Additionally beginning in FY11, funds are provided for installation of Submarine Special Operations Forces (SOF) unique system components. Starting in FY12, installation of SSBN SWSS OER Upgrades are planned for Ventilation Alarm Monitoring Panel (VAMP) and Missile Heating and Cooling Proportional Controllers.</p>		

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>										
<b>EXHIBIT P-5 COST ANALYSIS</b>				Weapon System					DATE February 2011			
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>				ID Code <b>A</b>		P-1 LINE ITEM NOMENCLATURE <b>STRATEGIC PLATFORM SUPPORT EQUIP SUBHEAD NO. H1HH</b>						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<b><u>EQUIPMENT</u></b>											
<b>HH009</b>	<b><u>EQUIPMENT HM&amp;E &amp; SWS/SS ALTERATION</u></b>											
	SCS PY SHIPALT DEV	A	9.854	0	0.000	3.038	0	0.000	10.096	0	0.000	10.257
	SSBN SWSS OER UPGRADE	A	0.000	0	0.000	0.000	0	0.000	0.000	4	0.375	1.500
<b>HH012</b>	<b><u>EQUIPMENT HM&amp;E TRIDENT ENGINEERING AVAILABILITY</u></b>											
	SHIPALT INSTALLATION PLANNING AND ENGINEERING SERVICES	A	5.278	1	1.952	1.952	1	2.019	2.019	1	2.032	2.032
	CCS EQUIPMENT REFURBISHMENT & SHIPBOARD TESTING	A	4.839	1	1.586	1.586	1	1.641	1.641	1	1.663	1.663
	HM&E EQUIPMENT REFURBISHMENT & SHIPBOARD TESTING	A	2.615	1	1.116	1.116	1	1.154	1.154	1	1.171	1.171
<b>HH013</b>	<b><u>SSTG ROTORS</u></b>											
	OHIO CLASS PROCUREMENT	A	0.000	1	7.300	7.300	1	7.158	7.158	0	0.000	0.000
	OHIO CLASS PROCUREMENT - MSS	A	0.000	0	0.000	0.000	0	0.000	0.000	1	3.638	3.638
<b>HH0GN</b>	<b><u>SSGN MODIFICATIONS</u></b>											
	SOF UPGRADES	A	0.000	0	0.000	0.000	0	0.000	0.488	0	0.000	0.503
	<b>TOTAL EQUIPMENT</b>		<b>22.586</b>			<b>14.992</b>			<b>22.556</b>			<b>20.764</b>
	<b><u>INSTALLATION</u></b>											
<b>HH5IN</b>	<b>SSTG ROTORS</b>	A	0.000	1	2.739	2.739	0	0.000	0.000	1	3.037	3.037
<b>HH5IN</b>	<b>SOF UPGRADES</b>	A	0.000	0	0.000	1.203	0	0.000	0.255	0	0.000	0.262
<b>HH5IN</b>	<b>SSBN SWSS OER UPGRADE</b>	A	0.000	0	0.000	0.000	0	0.000	0.000	4	0.291	1.165
	<b>TOTAL INSTALLATION</b>		<b>0.000</b>			<b>3.942</b>			<b>0.255</b>			<b>4.464</b>
<b>TOTAL</b>			<b>22.586</b>			<b>18.934</b>			<b>22.811</b>			<b>25.228</b>

CLASSIFICATION:				UNCLASSIFIED							
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING						Weapon System			DATE		
APPROPRIATION/BUDGET ACTIVITY						P-1 LINE ITEM NOMENCLATURE			SUBHEAD		
OTHER PROCUREMENT, NAVY/BA 1						STRATEGIC PLATFORM SUPPORT EQUIP			H1HH		
BLIN: 0950											
COST ELEMENT	Quantity	UNIT	LOCATION	RFP ISSUE	CONTRACT	CONTRACTOR	AWARD	DATE OF	SPEC	DATE	
FISCAL YEAR		COST	OF PCO	DATE	METHOD	AND LOCATION	DATE	FIRST	AVAIL	REVISIONS	
					& TYPE			DELIVERY	NOW	AVAILABLE	
<b>FY 2010</b>											
<b>HH012 EQUIPMENT HM&amp;E TRIDENT ENGINEERING AVAILABILITY</b>											
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		
HM&E EQUIPMENT REFURBISHMENT & SHIPBOARD TESTING	1	1.116	NAVSEA	N/A	WR	NSWC CD, PHILADELPHIA PA	APR-10	AUG-10	YES		
<b>HH013 SSTG ROTORS</b>											
OHIO CLASS PROCUREMENT	1	7.300	NAVSEA	N/A	OTHER*	EB CORP., GROTON, CT	JUN-10	JUN-12	YES		
<b>HH5IN</b>											
SSTG ROTORS	1	2.739	NAVSEA	N/A	WR	PSNS, BREMERTON, WA	MAY-10	AUG-10	YES		
<b>FY 2011</b>											
<b>HH012 EQUIPMENT HM&amp;E TRIDENT ENGINEERING AVAILABILITY</b>											
SHIPALT INSTALLATION PLANNING AND ENGINEERING SERVICES	1	2.019	NAVSEA	N/A	OTHER*	EB CORP., GROTON, CT	APR-11	AUG-11	YES		
CCS EQUIPMENT REFURBISHMENT & SHIPBOARD TESTING	1	1.641	NAVSEA	N/A	WR	NUWC NEWPORT, RI	APR-11	AUG-11	YES		
HM&E EQUIPMENT REFURBISHMENT & SHIPBOARD TESTING	1	1.154	NAVSEA	N/A	WR	NSWC CD, PHILADELPHIA PA	APR-11	AUG-11	YES		
<b>HH013 SSTG ROTORS</b>											
OHIO CLASS PROCUREMENT	1	7.158	NAVSEA	N/A	OTHER*	EB CORP., GROTON, CT	JAN-11	JAN-13	YES		
<b>FY 2012</b>											
<b>HH009 EQUIPMENT HM&amp;E &amp; SWS/SS ALTERATION</b>											
SSBN SWSS OER UPGRADE	4	0.375	NAVSEA	N/A	OTHER*	EB CORP. GROTON CT	FEB-12	JUN-12	YES		
<b>HH012 EQUIPMENT HM&amp;E TRIDENT ENGINEERING AVAILABILITY</b>											
SHIPALT INSTALLATION PLANNING AND ENGINEERING SERVICES	1	2.032	NAVSEA	N/A	OTHER*	EB CORP., GROTON, CT	APR-12	AUG-12	YES		
CCS EQUIPMENT REFURBISHMENT & SHIPBOARD TESTING	1	1.663	NAVSEA	N/A	WR	NUWC, NEWPORT, RI	APR-12	AUG-12	YES		
HM&E EQUIPMENT REFURBISHMENT & SHIPBOARD TESTING	1	1.171	NAVSEA	N/A	WR	NSWC, PHILADELPHIA	APR-12	AUG-12	YES		
<b>HH013 SSTG ROTORS</b>											
OHIO CLASS PROCUREMENT - MSS	1	3.638	NAVSEA	N/A	OTHER*	EB CORP., GROTON, CT	APR-12	APR-14	YES		
<b>HH5IN</b>											

<b>CLASSIFICATION:</b>			<b>UNCLASSIFIED</b>								
<b>Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)</b>					Weapon System				<b>DATE</b> February 2011		
<b>APPROPRIATION/BUDGET ACTIVITY</b> OTHER PROCUREMENT, NAVY/BA 1					<b>P-1 LINE ITEM NOMENCLATURE</b> STRATEGIC PLATFORM SUPPORT EQUIP BLIN: 0950				<b>SUBHEAD</b> 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
SSTG ROTORS		1	3.037	NAVSEA	N/A	OTHER*	EB CORP., GROTON CT	JAN-12	AUG-12	YES	
SSBN SWSS OER UPGRADE		4	0.291	NAVSEA	N/A	OTHER*	EB CORP., GROTON CT	FEB-12	JUN-12	YES	
Remarks: *CONTRACT METHODS LISTED AS "OTHER" ARE COST PLUS FIXED FEE (CPFF) CONTRACTS.											

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED HH009 EQUIPMENT HM&E & SWS/SS ALTERATION SSBN SWSS OER UPGRADE	TYPE MODIFICATION: K-ALT	MODIFICATION TITLE: STRATEGIC PLATFORM SUPPORT EQUIP
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**DESCRIPTION/JUSTIFICATION:**

Strategic Weapons System Support Systems (SWSS) OER issues involving the Ventilation Alarm and Monitoring Panel (VAMP) and the Missile Heating and Cooling Proportional Controllers. Both upgrades are required to support Strategic Programs' SWS Integration program (Mod6/Mod7) which replaces the current Launcher, Fire Control and Weapons Support electronics.

**DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:**

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN( IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<b>PROCUREMENT</b>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT							4	1.5	4	1.0	4	1.0	4	1.0	4	1.0			20	5.5	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST							4	1.2	4	0.9	4	0.9	4	0.9	4	0.9			20	4.8	
<b>TOTAL PROCUREMENT</b>								2.7		1.9		1.9		1.9		1.9					10.3



CLASSIFICATION: UNCLASSIFIED February 2011

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED: EQUIPMENT HM&E & SWS/SS ALTERATION SSBN SWSS OER UPGRADE  
 MODIFICATION TITLE: STRATEGIC PLATFORM SUPPORT EQUIP

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: K-ALT

ADMINISTRATIVE LEADTIME: Months PRODUCTION LEADTIME: 4 Months

CONTRACT DATES: FY 2010: FY 2011: FY 2012: FEB-12

DELIVERY DATES: FY 2010: FY 2011: FY 2012: JUN-12

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS																					
FY 2010 EQUIPMENT																					
FY 2011 EQUIPMENT																					
FY 2012 EQUIPMENT								4	1.2											4	1.2
FY 2013 EQUIPMENT										4	0.9									4	0.9
FY 2014 EQUIPMENT												4	0.9							4	0.9
FY 2015 EQUIPMENT													4	0.9						4	0.9
FY 2016 EQUIPMENT																4	0.9			4	0.9
TO COMPLETE																					

INSTALLATION SCHEDULE

	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	0	0	0	4	0	0	0	4	0	0	0	4	0	0	20
Out	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	0	0	0	4	0	0	0	4	0	0	0	4	0	20

Remarks:

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED HH013 SSTG ROTORS OHIO CLASS PROCUREMENT	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. THIS ELIMINATES POTENTIAL FOR CATASTROPHIC FAILURE. INCLUDES PROCUREMENT OF 1 ROTOR (one half of a shipset) FOR A MAJOR SHORE SPARE (MSS).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																				
<u>RDT&amp;E</u>																				
<u>PROCUREMENT</u>																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT			1	7.3	1	7.2													2	14.5
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER - MSS (1 ROTOR)								1	3.6										1	3.6
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST			1	2.7			1	3.0	1	3.4									3	9.1
<u>TOTAL PROCUREMENT</u>				10.0				7.2		6.6										27.2

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED SSTG ROTORS OHIO CLASS PROCUREMENT	MODIFICATION TITLE: STRATEGIC PLATFORM SUPPORT EQUIP
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: K-ALT

ADMINISTRATIVE LEADTIME: 3 Months      PRODUCTION LEADTIME: 24 Months

CONTRACT DATES:	FY 2010:	JUN-10	FY 2011:	JAN-11	FY 2012:	
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DELIVERY DATES:	FY 2010:	JUN-12	FY 2011:	JAN-13	FY 2012:	
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	PRIOR YEARS			1	2.7																1
FY 2010 EQUIPMENT							1	3.0												1	3.0
FY 2011 EQUIPMENT									1	3.4										1	3.4
FY 2012 EQUIPMENT																					
FY 2013 EQUIPMENT																					
FY 2014 EQUIPMENT																					
FY 2015 EQUIPMENT																					
FY 2016 EQUIPMENT																					
TO COMPLETE																					

INSTALLATION SCHEDULE

	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL		
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
In	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Out	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	3

Remarks: The FY10 installation funds will install rotors procured with FY08 SCN. This is due to shifting EROs beginning in FY10 from SCN funded to O&MN and OPN funded.

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>												
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION</b>											DATE February 2011			
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>						P-1 LINE ITEM NOMENCLATURE DSSP EQUIPMENT <b>SUBHEAD NO. 81HJ BLI: 0955</b>								
Program Element for Code B Items						Other Related Program Elements								
	Prior Years	ID Code		FY 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total
Quantity	0			0	0	0	0	0	0	0	0	0	0	0
COST ( In Millions)	113.3	A		9.8	3.9	2.6	0.0	2.6	3.6	2.7	2.8	2.8	0.0	141.5
SPARES COST ( In Millions)	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
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>														
The Advanced Undersea Systems (AUS) Program, 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 search and rescue, inspection, and object location and retrieval from the ocean environment. 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.														
<b>SOURCES:</b>														
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 AUS Program. Accordingly, sole source contracts are sometimes required; however, where possible, contracting via open competition is utilized.														
<b>REFERENCES:</b>														
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:														
<b>RESCUE SUPPORT EQUIPMENT (HJ030)</b>														
ATMOSPHERIC DIVING SYSTEM/SUBMARINE RESCUE DIVING and RECOMPRESSION SYSTEM														
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 also provides world-wide capability in support of the Submarine Rescue Chamber (SRC) mission. ADS is used to clear disabled submarines seating surfaces, attach the SRC downhaul cable, attach salvage fittings, deliver emergency life support stores, and assess disabled submarines. The Submarine Rescue System-Rescue Capable System (SRS-RCS) completed OPEVAL in FY08 and is the rescue ready vehicle for the U.S. Navy. The final component of SRDRS is Transfer Under Pressure (TUP) or Submarine Rescue System-Submarine Decompression System (SRS-SDS) and is scheduled for IOC in FY14.														
<b>SURVIVABILITY</b>														
This equipment 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.														
<b>SUBMARINE ESCAPE &amp; IMMERSION EQUIPMENT (SEIE) (HJ100)</b>														

<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> DSSP EQUIPMENT <b>SUBHEAD NO. 81HJ BLI: 0955</b>	
<p>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 obsolete Stienke Hood escape appliance onboard USN submarines which 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><b>EQUIPMENT INSTALLATION (HJINS/HJ927)</b> These funds are for the installation of The Advanced Undersea Systems (AUS) Program equipment, as well as the SEIE equipment.</p>		

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>										
<b>EXHIBIT P-5 COST ANALYSIS</b>						Weapon System					DATE February 2011	
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>						ID Code <b>A</b>		P-1 LINE ITEM NOMENCLATURE <b>DSSP EQUIPMENT</b> <b>SUBHEAD NO. 81HJ</b>				
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<b><u>EQUIPMENT</u></b>											
<b>HJ030</b>	<b><u>RESCUE SUPPORT EQUIPMENT</u></b>											
	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	13.638	0	0.000	0.300	0	0.000	0.307	0	0.000	0.303
	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	2.077	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	SRC MATERIALS	A	0.000	0	0.000	0.246	0	0.000	0.252	0	0.000	0.257
	SRDRS SYSTEM UPGRADE AND UPGRADE SPARES	A	7.816	0	0.000	8.668	0	0.000	3.310	0	0.000	2.040
<b>HJ100</b>	<b><u>SUBMARINE ESCAPE &amp; IMMERSION EQUIPMENT</u></b>											
	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
<b>WAXXX</b>	ACQUISITION WORKFORCE FUND-2009		0.028	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	<b>TOTAL EQUIPMENT</b>		<b>67.252</b>			<b>9.214</b>			<b>3.869</b>			<b>2.600</b>
	<b><u>INSTALLATION</u></b>											
<b>HJ9IN</b>	INSTALL OF EQUIPMENT (FMP) HJ927	A	43.907	1	0.577	0.577	0	0.000	0.000	0	0.000	0.000
<b>HJINS</b>	INSTALL OF EQUIPMENT	A	2.093	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	<b>TOTAL INSTALLATION</b>		<b>46.000</b>			<b>0.577</b>			<b>0.000</b>			<b>0.000</b>

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>										
<b>EXHIBIT P-5 COST ANALYSIS (CONTINUATION)</b>				Weapon System						DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>				ID Code <b>A</b>		P-1 LINE ITEM NOMENCLATURE <b>DSSP EQUIPMENT</b> <b>SUBHEAD NO. 81HJ</b>						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<b>TOTAL</b>		<b>113.252</b>			<b>9.791</b>			<b>3.869</b>			<b>2.600</b>
<b>Comment:</b> FY10 Funding Increase: In accordance with Commander, Submarine Development Squadron 5 ltr Ser 00/314 dated 11 November 2009 (endorsed by Commander, Submarine Forces 29 Jan 2010 and Deputy Director, Submarine Warfare Division 19 Feb 2010) increased funding for HJ030 in FY10 supports Rescue Capable System (RCS) Post delivery required modifications/upgrades of the following: 688 Hydraulic Hand pump, Launch and Recovery System Active Motion Compensation System, DDG-51 fly-away kit, Submarine Emergency Position Indicating Radio Beacon, Pressurized Rescue Module (PRM) Shield, PRM Pilot Simulator; and procurement of 2 sets of Revision 1 Ship Interface Template Systems. Additionally, the FY10 increase in funds supports SRC materials due to transition of SRC maintenance to NAVSEA from the Fleet beginning in FY10. The FY13 funding increase supports RCS design improvements for integration with TUP.												

<b>CLASSIFICATION:</b>				<b>UNCLASSIFIED</b>						
<b>Exhibit P5A, PROCUREMENT HISTORY AND PLANNING</b>					Weapon System				<b>DATE</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY</b> OTHER PROCUREMENT, NAVY/BA 1					<b>P-1 LINE ITEM NOMENCLATURE</b> DSSP EQUIPMENT BLIN: 0955				<b>SUBHEAD</b> 81HJ	
<b>COST ELEMENT</b> FISCAL YEAR	<b>Quantity</b>	<b>UNIT</b> COST	<b>LOCATION</b> OF PCO	<b>RFP ISSUE</b> DATE	<b>CONTRACT</b> METHOD & TYPE	<b>CONTRACTOR</b> AND LOCATION	<b>AWARD</b> DATE	<b>DATE OF</b> FIRST DELIVERY	<b>SPEC</b> AVAIL NOW	<b>DATE</b> REVISIONS AVAILABLE
<b>FY 2010</b>										
<b>HJ91N</b> INSTALL OF EQUIPMENT (FMP) HJ927	1	0.577	NSWC CD DIV SSES	SEP-07	FFP	OCEANEERING CHESAPEAKE VA	OCT-07	JAN-10		



**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 obsolete Stienke Hood escape appliance onboard USN submarines which 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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	<i>FINANCIAL PLAN (IN MILLIONS)</i>																				
<i>RDT&amp;E</i>																					
<b>PROCUREMENT</b>																					
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	68	33.8	1	0.6																69	34.4
<b>TOTAL PROCUREMENT</b>		70.0		0.6																	70.6

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED SUBMARINE ESCAPE & IMMERSION EQUIPMENT LA CLASS SEIE SUIT SETS	MODIFICATION TITLE: DSSP EQUIPMENT
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: VARIOUS

ADMINISTRATIVE LEADTIME: Months      PRODUCTION LEADTIME: Months

CONTRACT DATES: FY 2010: FY 2011: FY 2012:

DELIVERY DATES: FY 2010: FY 2011: FY 2012:

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	68	33.8	1	0.6															69
FY 2010 EQUIPMENT																				
FY 2011 EQUIPMENT																				
FY 2012 EQUIPMENT																				
FY 2013 EQUIPMENT																				
FY 2014 EQUIPMENT																				
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	68	1	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	69
Out	68	0	1	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	69

Remarks: The equipment and installation on this page is only for SEIE suits. The higher equipment quantity of 369 on page 5 includes prior generation escape equipment (ex. Stienke Hoods) and additional equipment required for SEIE suits installation (ex. Valves, kits, hatch modifications, training suits, life rafts and crash bags). Installation dates are based upon ship availability.

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>													
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION</b>											<b>DATE</b> February 2011				
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>						<b>P-1 LINE ITEM NOMENCLATURE</b> CG MODERNIZATION <b>SUBHEAD NO. 81CC BLI: 0960</b>									
Program Element for Code B Items						Other Related Program Elements 0604307N, 0604567N, 0204221N									
	Prior Years	ID Code		FY 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total	
Quantity	3			2	1	3	0	3	3	3	3	0	4	22	
COST ( In Millions)	780.0			316.7	357.0	590.3	0.0	590.3	594.2	642.3	246.5	245.9	154.5	3,927.4	
SPARES COST ( In Millions)	16.6	0		6.2	6.9	1.9	0.0	1.9	7.0	6.3	5.5	5.6	0.0	56.0	
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b> 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.															
<b>CC001 - SPQ-9B UPGRADE</b> Procures SPQ-9B for all CG Modernization ships including equipment procurement, non-recurring and recurring equipment engineering, equipment integration, and Integrated Logistics Support (ILS).															
<b>CC002 - SARTIS</b> 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.															
<b>CC003 - CEC</b> Procures Cooperative Engagement Capability (CEC) for all ships including equipment procurement, non-recurring and recurring equipment engineering, equipment integration, and ILS.															
<b>CC004 - AN/SQQ-89</b> Procures AN/SQQ-89 for Baseline 3 and 4 ships including equipment procurement, non-recurring and recurring equipment engineering, equipment integration, and ILS.															
<b>CC005 - SGS / CDLMS</b> Procures Ship Gridlock System (SGS) and the Common Data Link Management System (CDLMS) for Baseline 2 ships including equipment procurement, non-recurring and recurring equipment engineering, equipment integration, and ILS.															
<b>CC007 - AWS UPGRADE</b> Procures AEGIS Weapons System (AWS) upgrade for all ships including equipment procurement, non-recurring and recurring equipment engineering, equipment integration, and ILS.															

<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> CG MODERNIZATION <b>SUBHEAD NO. 81CC BLI: 0960</b>	
<p><b>CC008 - VLS UPGRADE</b> Procures Vertical Launch System (VLS) upgrade for all ships including equipment procurement, non-recurring and recurring equipment engineering, equipment integration, and ILS.</p> <p><b>CC010 - MK34 UPGRADE</b> 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><b>CC011 - ISC UPGRADE</b> 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><b>CC012 - VIRGINIA SITES</b> 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><b>CC013 - INSTALLATION / DSA / AIT</b> Provides Planning Yard Design Services Allocation (DSA) (design, advance planning, kitted material), MSR installations and AIT installation support.</p> <p><b>CC014 - CONJUNCTIVE COMBAT SYSTEM ALTERATIONS</b> Conjunctive Combat System Alterations includes design integration, COTS refresh, procurement and backfit installation.</p> <p><b>CC015 - MULTI-MISSION SIGPRO</b> Procures Multi-Mission Signal Processor (MMSP) combat systems that consists of hardware, software, system engineering, integrated logistics support, system test &amp; evaluation, training, data, installation assistance teams, spare and repair parts, and program management.</p> <p><b>CC016 - SPY-1D(V) TRANSMITTER UPGRADES</b> Procures SPY-1D(V) Transmitter Upgrades combat systems that consists of hardware, software, system engineering, integrated logistics support, system test &amp; evaluation, training, data, installation assistance teams, spare and repair parts, and program management.</p> <p><b>CC017 - MULTI-MISSION BMD CAPABILITY</b> Procures Multi-Mission Ballistic Missile Defense (BMD) Capability combat systems that consists of hardware, software, system engineering, integrated logistics support, system test &amp; evaluation, training, data, installation assistance teams, spare and repair parts, and program management.</p> <p><b>CC018-MULTI-MISSION SSA/CWI MICROWAVE TUBES</b> 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 &amp; evaluation, training, data, installation assistance teams, spare and repair parts, and program management.</p>		

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>										
<b>EXHIBIT P-5 COST ANALYSIS</b>				Weapon System CG47 CLASS CRUISER MODERNIZATION						DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>				ID Code		P-1 LINE ITEM NOMENCLATURE <b>CG MODERNIZATION</b> <b>SUBHEAD NO. 81CC</b>						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<u><b>EQUIPMENT</b></u>											
<b>CC001</b>	<u>SPQ-9B UPGRADE</u>											
	SPQ-9B EQUIPMENT		39.288	3	6.130	18.390	3	6.234	18.702	3	6.346	19.039
	ENGINEERING SERVICES		0.851	0	0.000	2.664	0	0.000	3.934	0	0.000	2.274
<b>CC002</b>	<u>SARTIS</u>											
	SARTIS EQUIPMENT		0.898	3	0.106	0.318	4	0.108	0.432	3	0.110	0.330
<b>CC003</b>	<u>CEC</u>											
	CEC EQUIPMENT		27.482	3	4.686	14.058	3	4.765	14.295	3	4.851	14.553
	ENGINEERING SERVICES		0.962	0	0.000	2.926	0	0.000	2.976	0	0.000	1.721
<b>CC004</b>	<u>AN/SQQ-89</u>											
	AN/SQQ-89 EQUIPMENT		1.200	2	13.564	27.128	3	13.795	41.384	3	14.043	42.129
	ENGINEERING SERVICES		30.795	0	0.000	1.172	0	0.000	4.973	0	0.000	2.875
<b>CC005</b>	<u>SGS / CDLMS</u>											
	SGS/CDLMS EQUIPMENT		4.154	1	0.787	0.787	1	0.800	0.800	0	0.000	0.000
	ENGINEERING SERVICES		0.700	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
<b>CC007</b>	<u>AWS UPGRADE</u>											
	AWS EQUIPMENT		168.686	3	21.921	65.763	3	22.316	66.947	3	22.717	68.152
	ENGINEERING SERVICES		21.290	0	0.000	4.526	0	0.000	4.605	0	0.000	2.662
<b>CC008</b>	<u>VLS UPGRADE</u>											
	VLS EQUIPMENT		74.705	3	9.544	28.631	3	9.706	29.118	3	12.991	38.972
	ENGINEERING SERVICES		1.036	0	0.000	1.575	0	0.000	1.602	0	0.000	0.926

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)				Weapon System CG47 CLASS CRUISER MODERNIZATION						DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1				ID Code		P-1 LINE ITEM NOMENCLATURE CG MODERNIZATION SUBHEAD NO. 81CC						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
CC010	<u>MK34 UPGRADE</u>											
	MK34 EQUIPMENT		40.769	3	5.190	15.569	3	5.278	15.834	3	5.373	16.119
	ENGINEERING SERVICES		16.345	0	0.000	1.470	0	0.000	1.562	0	0.000	0.933
CC011	<u>ISC UPGRADE</u>											
	ISC EQUIPMENT		25.784	0	0.000	0.000	1	6.294	6.294	1	6.407	6.407
	ENGINEERING SERVICES		0.000	0	0.000	0.000	0	0.000	2.213	0	0.000	2.252
CC012	<u>VIRGINIA SITES</u>											
	VIRGINIA SITES		42.105	0	0.000	14.260	0	0.000	10.494	0	0.000	26.319
CC013	<u>INSTALLATION / DSA / AIT</u>											
	INSTALLATION / DSA / AIT		177.678	0	0.000	95.551	0	0.000	92.881	0	0.000	201.059
CC014	<u>CONJUNCTIVE COMBAT SYSTEM ALTERATIONS</u>											
	CONJUNCTIVE COMBAT SYSTEM ALTERATIONS		105.235	0	0.000	21.923	0	0.000	37.912	0	0.000	38.768
CC015	<u>MULTI-MISSION SIGPRO</u>											
	MULTI-MISSION SIGRPO EQUIPMENT		0.000	0	0.000	0.000	0	0.000	0.000	3	22.000	66.000
CC016	<u>SPY-1D(V) TRANSMITTER UPGRADES</u>											
	SPY-1D(V) TRANSMITTER EQUIPMENT		0.000	0	0.000	0.000	0	0.000	0.000	3	10.260	30.780
CC017	<u>MULTI-MISSION BMD CAPABILITY</u>											
	MULTI-MISSION BMD EQUIPMENT		0.000	0	0.000	0.000	0	0.000	0.000	3	1.553	4.659
CC018	<u>MULTI-MISSION SSA/CWI MICROWAVE TUBES</u>											

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>										
<b>EXHIBIT P-5 COST ANALYSIS (CONTINUATION)</b>				Weapon System CG47 CLASS CRUISER MODERNIZATION						DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>				ID Code		P-1 LINE ITEM NOMENCLATURE <b>CG MODERNIZATION</b> <b>SUBHEAD NO. 81CC</b>						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	MULTI-MISSION SSA/CWI MICROWAVE TUBES		0.000	0	0.000	0.000	0	0.000	0.000	3	1.140	3.420
	<b>TOTAL EQUIPMENT</b>		<b>779.963</b>			<b>316.711</b>			<b>356.958</b>			<b>590.349</b>
	<b>TOTAL</b>		<b>779.963</b>			<b>316.711</b>			<b>356.958</b>			<b>590.349</b>

CLASSIFICATION:					UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE		
					CG47 CLASS CRUISER MODERNIZATION				February 2011		
APPROPRIATION/BUDGET ACTIVITY					P-1 LINE ITEM NOMENCLATURE				SUBHEAD		
OTHER PROCUREMENT, NAVY/BA 1					CG MODERNIZATION				81CC		
					BLIN: 0960						
COST ELEMENT	Quantity	UNIT	LOCATION	RFP ISSUE	CONTRACT	CONTRACTOR	AWARD	DATE OF	SPEC	DATE	
FISCAL YEAR		COST	OF PCO	DATE	METHOD	AND LOCATION	DATE	FIRST	AVAIL	REVISIONS	
					& TYPE			DELIVERY	NOW	AVAILABLE	
<b>FY 2010</b>											
<b>CC001 SPQ-9B UPGRADE</b>											
SPQ-9B EQUIPMENT	3	6.130	NAVSEA	N/A	FP	NORTHROP GRUMMAN, NY	JUN-10	DEC-11	YES		
<b>CC002 SARTIS</b>											
SARTIS EQUIPMENT	3	0.106	NAVSEA	N/A	FP	NAWC, PATUXENT, MD	JUN-10	DEC-11	YES		
<b>CC003 CEC</b>											
CEC EQUIPMENT	3	4.686	NAVSEA	N/A	FP	RAYTHEON, PETERSBURG, FL	JUN-10	DEC-11	YES		
<b>CC004 AN/SQQ-89</b>											
AN/SQQ-89 EQUIPMENT	2	13.564	NAVSEA	N/A	FP	LOCKHEED MARTIN, NY	JUN-10	DEC-11	YES		
<b>CC005 SGS / CDLMS</b>											
SGS/CDLMS EQUIPMENT	1	0.787	NAVSEA	N/A	FP	GD/LM, MN	JUN-10	DEC-11	YES		
<b>CC007 AWS UPGRADE</b>											
AWS EQUIPMENT	3	21.921	NAVSEA	N/A	FP	LOCKHEED MARTIN, MN/NJ	APR-10	DEC-11	YES		
<b>CC008 VLS UPGRADE</b>											
VLS EQUIPMENT	3	9.544	NAVSEA	N/A	FP	LOCKHEED MARTIN, MD	JUN-10	DEC-11	YES		
<b>CC010 MK34 UPGRADE</b>											
MK34 EQUIPMENT	3	5.190	NAVSEA	N/A	FP	VARIOUS	JUN-10	DEC-11	YES		
<b>FY 2011</b>											
<b>CC001 SPQ-9B UPGRADE</b>											
SPQ-9B EQUIPMENT	3	6.234	NAVSEA	N/A	FP	NORTHROP GRUMMAN, NY	JUN-11	DEC-12	YES		
<b>CC002 SARTIS</b>											
SARTIS EQUIPMENT	4	0.108	NAVSEA	N/A	FP	NAWC, PATUXENT, MD	JUN-11	DEC-12	YES		
<b>CC003 CEC</b>											
CEC EQUIPMENT	3	4.765	NAVSEA	N/A	FP	RAYTHEON, PETERSBURG, FL	JUN-11	DEC-12	YES		
<b>CC004 AN/SQQ-89</b>											
AN/SQQ-89 EQUIPMENT	3	13.795	NAVSEA	N/A	FP	LOCKHEED MARTIN, NY	JUN-11	DEC-12	YES		
<b>CC005 SGS / CDLMS</b>											



CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System CG47 CLASS CRUISER MODERNIZATION				DATE February 2011	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE CG MODERNIZATION BLIN: 0960				SUBHEAD 81CC	
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
SGS/CDLMS EQUIPMENT <b>CC007 AWS UPGRADE</b>	1	0.800	NAVSEA	N/A	FP	GD/LM, MN	JUN-11	DEC-11	YES	
AWS EQUIPMENT <b>CC008 VLS UPGRADE</b>	3	22.316	NAVSEA	N/A	FP	LOCKHEED MARTIN, MN/NJ	APR-11	DEC-12	YES	
VLS EQUIPMENT <b>CC010 MK34 UPGRADE</b>	3	9.706	NAVSEA	N/A	FP	LOCKHEED MARTIN, MD	JUN-11	DEC-12	YES	
MK34 EQUIPMENT <b>CC011 ISC UPGRADE</b>	3	5.278	NAVSEA	N/A	FP	VARIOUS	JUN-11	DEC-12	YES	
ISC EQUIPMENT	1	6.294	NAVSEA	N/A	FP	HENSCHEL, NEWBURYPORT, MA	JUN-11	DEC-11	YES	
<b>FY 2012</b>										
<b>CC001 SPQ-9B UPGRADE</b>										
SPQ-9B EQUIPMENT	3	6.346	NAVSEA	N/A	FP	NORTHROP GRUMMAN, NY	JUN-12	DEC-13	YES	
<b>CC002 SARTIS</b>										
SARTIS EQUIPMENT	3	0.110	NAVSEA	N/A	FP	NAWC, PATUXENT, MD	JUN-12	DEC-13	YES	
<b>CC003 CEC</b>										
CEC EQUIPMENT	3	4.851	NAVSEA	N/A	FP	RAYTHEON, PETERSBURG, FL	JUN-12	DEC-13	YES	
<b>CC004 AN/SQQ-89</b>										
AN/SQQ-89 EQUIPMENT	3	14.043	NAVSEA	N/A	FP	LOCKHEED MARTIN, NY	JUN-12	DEC-13	YES	
<b>CC007 AWS UPGRADE</b>										
AWS EQUIPMENT	3	22.717	NAVSEA	N/A	FP	LOCKHEED MARTIN, MN/NJ	APR-12	DEC-13	YES	
<b>CC008 VLS UPGRADE</b>										
VLS EQUIPMENT	3	12.991	NAVSEA	N/A	FP	LOCKHEED MARTIN, MD	JUN-12	DEC-13	YES	
<b>CC010 MK34 UPGRADE</b>										
MK34 EQUIPMENT	3	5.373	NAVSEA	N/A	FP	VARIOUS	JUN-12	DEC-13	YES	
<b>CC011 ISC UPGRADE</b>										
ISC EQUIPMENT	1	6.407	NAVSEA	N/A	FP	HENSCHEL, NEWBURYPORT, MA	JUN-12	DEC-13	YES	
<b>CC015 MULTI-MISSION SIGPRO</b>										
MULTI-MISSION SIGRPO EQUIPMENT	3	22.000	NAVSEA	N/A	FP	LOCKHEED MARTIN, NJ	JUN-12	DEC-13	YES	

<b>CLASSIFICATION:</b>				<b>UNCLASSIFIED</b>							
<b>Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)</b>					Weapon System CG47 CLASS CRUISER MODERNIZATION				<b>DATE</b> February 2011		
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>					<b>P-1 LINE ITEM NOMENCLATURE</b> <b>CG MODERNIZATION</b> <b>BLIN: 0960</b>				<b>SUBHEAD</b> <b>81CC</b>		
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	
<b>CC016 SPY-1D(V) TRANSMITTER UPGRADES</b>											
SPY-1D(V) TRANSMITTER EQUIPMENT	3	10.260	NAVSEA	N/A	FP	RAYTHEON, MA	JUN-12	DEC-13	YES		
<b>CC017 MULTI-MISSION BMD CAPABILITY</b>											
MULTI-MISSION BMD EQUIPMENT	3	1.553	NAVSEA	N/A	FP	LOCKHEED MARTIN, NJ	JUN-12	DEC-13	YES		
<b>CC018 MULTI-MISSION SSA/CWI MICROWAVE TUBES</b>											
MULTI-MISSION SSA/CWI MICROWAVE TUBES	3	1.140	NAVSEA	N/A	FP	NSWC/CR, IN	JUN-12	DEC-13	YES		
Remarks: FY10 Sartis Equipment (CC002) is being procured for one Baseline 2 Availability and 2 Baseline 3-4 Availabilities. The lead time total will be 24 months (6 months administrative lead time, 18 months production lead time.)											

**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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN( IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	6	39.3	3	18.4	3	18.7	3	19.0	3	19.4	3	19.7						1	6.7	22	141.2
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	3	7.1	2	4.0	1	3.3	3	6.8	3	7.3	3	7.5	3	7.4	3	5.7	1	2.3	22	51.4	
<i>TOTAL PROCUREMENT</i>		46.4		22.4		22.0		25.8		26.7		27.2		7.4		5.7		9.0		192.6	

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED SPQ-9B UPGRADE SPQ-9B EQUIPMENT	MODIFICATION TITLE: CG MODERNIZATION
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: \*6 Months      PRODUCTION LEADTIME: \*18 Months

CONTRACT DATES:		FY 2010:	JUN-10	FY 2011:	JUN-11	FY 2012:	JUN-12
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DELIVERY DATES:		FY 2010:	DEC-11	FY 2011:	DEC-12	FY 2012:	DEC-13
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	3	7.1	2	3.7	1	1.6													6
FY 2010 EQUIPMENT			DSA	0.3	DSA	1.4	3	5.0											3	6.7
FY 2011 EQUIPMENT					DSA	0.3	DSA	1.5	3	5.4									3	7.2
FY 2012 EQUIPMENT							DSA	0.3	DSA	1.5	3	5.5							3	7.3
FY 2013 EQUIPMENT									DSA	0.4	DSA	1.6	3	5.8					3	7.8
FY 2014 EQUIPMENT											DSA	0.4	DSA	1.6	3	5.7			3	7.7
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																	1	2.3	1	2.3

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	3	0	1	0	1	0	0	0	1	0	3	0	0	0	2	1	0	0	3	0	0	0	2	1	0	0	0	1	1	1	22
Out	1	0	0	2	0	0	1	0	1	0	0	1	0	2	1	0	0	2	0	1	0	3	0	0	0	0	3	0	0	4	22

\*Remarks: Total lead time is 24 months, which includes Administration lead time (6 months) and Production lead time (18 months). Administrative lead time includes receipts of funds, document development, contracts review, comptroller review, and vendor concurrence.  
 Design Services Allocation (DSA) - Planning Yard design and ship check required for mandatory design tasks that must be completed within the two year period prior to the actual shipyard installation.

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED CC003 CEC CEC EQUIPMENT	TYPE MODIFICATION:	MODIFICATION TITLE: CG MODERNIZATION
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DESCRIPTION/JUSTIFICATION:  
Procure and Install Cooperative Engagement Capability for CG Modernization

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<i>FINANCIAL PLAN( IN MILLIONS)</i>																				
<i>RDT&amp;E</i>																				
<u>PROCUREMENT</u>																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	6	27.5	3	14.1	3	14.3	3	14.6	3	14.8	3	15.1					1	5.2	22	105.6
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	3	7.4	2	4.0	1	3.3	3	7.0	3	7.5	3	7.8	3	7.5	3	5.9	1	2.4	22	52.8
<i>TOTAL PROCUREMENT</i>		34.9		18.1		17.6		21.6		22.3		22.9		7.5		5.9		7.6		158.4

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

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

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: \*6 Months      PRODUCTION LEADTIME: \*18 Months

CONTRACT DATES:	FY 2010:	JUN-10	FY 2011:	JUN-11	FY 2012:	JUN-12
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DELIVERY DATES:	FY 2010:	DEC-11	FY 2011:	DEC-12	FY 2012:	DEC-13
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	3	7.4	2	3.7	1	1.6													6
FY 2010 EQUIPMENT			DSA	0.3	DSA	1.4	3	5.1											3	6.8
FY 2011 EQUIPMENT					DSA	0.3	DSA	1.5	3	5.5									3	7.3
FY 2012 EQUIPMENT							DSA	0.4	DSA	1.6	3	5.8							3	7.8
FY 2013 EQUIPMENT									DSA	0.4	DSA	1.6	3	5.9					3	7.9
FY 2014 EQUIPMENT											DSA	0.4	DSA	1.6	3	5.9			3	7.9
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																	1	2.4	1	2.4

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	3	0	1	0	1	0	0	0	1	0	3	0	0	0	2	1	0	0	3	0	0	0	2	1	0	0	1	1	1	1	22
Out	1	0	0	2	0	0	1	0	1	0	0	1	0	2	1	0	0	2	0	1	0	3	0	0	0	0	3	0	0	4	22

\*Remarks: Total lead time is 24 months, which includes Administration lead time (6 months) and Production lead time (18 months). Administrative lead time includes receipts of funds, document development, contracts review, comptroller review, and vendor concurrence.  
 Design Services Allocation (DSA) - Planning Yard design and ship check required for mandatory design tasks that must be completed within the two year period prior to the actual shipyard installation.

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED CC004 AN/SQQ-89 AN/SQQ-89 EQUIPMENT	TYPE MODIFICATION:	MODIFICATION TITLE: CG MODERNIZATION
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DESCRIPTION/JUSTIFICATION:  
Procure and Install An/SQQ-89 for CG Modernization

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<i>FINANCIAL PLAN( IN MILLIONS)</i>																				
<i>RDT&amp;E</i>																				
<u>PROCUREMENT</u>																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT		1.2	2	27.1	3	41.4	3	42.1	3	42.9	3	43.7					1	14.8	15	213.2
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST			DSA	0.3	DSA	2.3	2	11.9	3	16.8	3	17.3	3	17.2	3	14.2	1	5.6	15	85.6
<u>TOTAL PROCUREMENT</u>		1.2		27.4		43.7		54.0		59.7		61.0		17.2		14.2		20.4		298.8

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

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

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: \*6 Months      PRODUCTION LEADTIME: \*18 Months

CONTRACT DATES:	FY 2010:	JUN-10	FY 2011:	JUN-11	FY 2012:	JUN-12
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DELIVERY DATES:	FY 2010:	DEC-11	FY 2011:	DEC-12	FY 2012:	DEC-13
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	PRIOR YEARS																				
FY 2010 EQUIPMENT			DSA	0.3	DSA	1.6	2	8.5												2	10.4
FY 2011 EQUIPMENT					DSA	0.7	DSA	2.6	3	13.3										3	16.6
FY 2012 EQUIPMENT							DSA	0.8	DSA	2.7	3	13.6								3	17.1
FY 2013 EQUIPMENT									DSA	0.8	DSA	2.9	3	14.4						3	18.1
FY 2014 EQUIPMENT											DSA	0.8	DSA	2.8	3	14.2				3	17.8
FY 2015 EQUIPMENT																					
FY 2016 EQUIPMENT																					
TO COMPLETE																	1	5.6	1	5.6	

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	2	0	0	0	2	1	0	0	3	0	0	0	2	1	0	0	0	1	1	1	1	15
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	1	0	3	0	0	0	0	3	0	0	4	15	

\*Remarks: Total lead time is 24 months, which includes Administration lead time (6 months) and Production lead time (18 months). Administrative lead time includes receipts of funds, document development, contracts review, comptroller review, and vendor concurrence.  
 Design Services Allocation (DSA) - Planning Yard design and ship check required for mandatory design tasks that must be completed within the two year period prior to the actual shipyard installation.



**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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<i>FINANCIAL PLAN( IN MILLIONS)</i>																				
<i>RDT&amp;E</i>																				
<u>PROCUREMENT</u>																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	6	168.7	3	65.8	3	66.9	3	68.2	3	69.4	3	70.6					1	24.0	22	533.6
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	3	49.7	2	32.2	1	33.6	3	81.4	3	94.3	3	97.2	3	96.1	3	71.3	1	30.8	22	586.6
<u>TOTAL PROCUREMENT</u>		218.4		98.0		100.5		149.6		163.7		167.8		96.1		71.3		54.8		1,120.2

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

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

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: \*6 Months PRODUCTION LEADTIME: \*20 Months

CONTRACT DATES: FY 2010: APR-10 FY 2011: APR-11 FY 2012: APR-12

DELIVERY DATES: FY 2010: DEC-11 FY 2011: DEC-12 FY 2012: DEC-13

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	3	49.7	2	28.4	1	11.7													6
FY 2010 EQUIPMENT			DSA	3.8	DSA	17.6	3	54.6											3	76.0
FY 2011 EQUIPMENT					DSA	4.3	DSA	22.1	3	66.6									3	93.0
FY 2012 EQUIPMENT							DSA	4.7	DSA	22.6	3	68.1							3	95.4
FY 2013 EQUIPMENT									DSA	5.1	DSA	24.1	3	72.4					3	101.6
FY 2014 EQUIPMENT											DSA	5.0	DSA	23.7	3	71.3			3	100.0
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																	1	30.8	1	30.8

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	3	0	1	0	1	0	0	0	1	0	3	0	0	0	2	1	0	0	3	0	0	0	2	1	0	0	0	1	1	1	22
Out	1	0	0	2	0	0	1	0	1	0	0	1	0	2	1	0	0	2	0	1	0	3	0	0	0	0	3	0	0	4	22

\*Remarks: Total lead time is 26 months, which includes Administrative lead time (6 months) and Production lead time (20 months). The production lead time includes a 4 month Backfit Production Test Facility risk reduction effort. Administrative lead time includes receipt of funds, document development, contracts review, comptroller review, and vendor concurrence.

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

Note: AWS Installation costs vary based on combat systems configuration.

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED CC008 VLS UPGRADE VLS EQUIPMENT	TYPE MODIFICATION:	MODIFICATION TITLE: CG MODERNIZATION
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DESCRIPTION/JUSTIFICATION:  
Procure and Install Vertical Launch System for CG Modernization

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<i>FINANCIAL PLAN( IN MILLIONS)</i>																				
<i>RDT&amp;E</i>																				
<b>PROCUREMENT</b>																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	6	74.7	3	28.6	3	29.1	3	39.0	3	39.7	3	40.4					1	14.1	22	265.6
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	3	6.8	2	2.0	1	1.8	3	3.7	3	3.9	3	3.9	3	3.9	3	3.0	1	1.3	22	30.3
<i>TOTAL PROCUREMENT</i>		81.5	30.6	30.9	42.7	43.6	44.3	3.9	3.0	15.4	295.9									

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

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

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: \*6 Months      PRODUCTION LEADTIME: \*18 Months

CONTRACT DATES:		FY 2010:	JUN-10	FY 2011:	JUN-11	FY 2012:	JUN-12
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DELIVERY DATES:		FY 2010:	DEC-11	FY 2011:	DEC-12	FY 2012:	DEC-13
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	3	6.8	2	1.9	1	0.8													6
FY 2010 EQUIPMENT			DSA	0.1	DSA	0.8	3	2.6											3	3.5
FY 2011 EQUIPMENT					DSA	0.2	DSA	0.9	3	2.8									3	3.9
FY 2012 EQUIPMENT							DSA	0.2	DSA	0.9	3	2.8							3	3.9
FY 2013 EQUIPMENT									DSA	0.2	DSA	0.9	3	3.0					3	4.1
FY 2014 EQUIPMENT											DSA	0.2	DSA	0.9	3	3.0			3	4.1
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																	1	1.3	1	1.3

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	3	0	1	0	1	0	0	0	1	0	3	0	0	0	2	1	0	0	3	0	0	0	2	1	0	0	0	1	1	1	22
Out	1	0	0	2	0	0	1	0	1	0	0	1	0	2	1	0	0	2	0	1	0	3	0	0	0	0	3	0	0	4	22

\*Remarks: Total lead time is 24 months, which includes Administration lead time (6 months) and Production lead time (18 months). Administrative lead time includes receipts of funds, document development, contracts review, comptroller review, and vendor concurrence.

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

Note: VLS equipment procurement costs vary due to Ballistic Missile Defense (BMD) capability upgrades.

**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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN( IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<b>PROCUREMENT</b>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	6	40.8	3	15.6	3	15.8	3	16.1	3	16.4	3	16.7					1	5.7	22	127.1	
EQUIPMENT NONRECURRING		15.3		3.2		2.4		2.0												22.9	
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	3	11.8	2	6.7	1	5.7	3	11.8	3	12.5	3	12.7	3	12.7	3	9.8	1	4.0	22	87.7	
<i>TOTAL PROCUREMENT</i>			67.9		25.5		23.9		29.9		28.9		29.4		12.7		9.8		9.7	237.7	

**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: \*6 Months      PRODUCTION LEADTIME: \*18 Months

CONTRACT DATES:		FY 2010:	JUN-10	FY 2011:	JUN-11	FY 2012:	JUN-12
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DELIVERY DATES:		FY 2010:	DEC-11	FY 2011:	DEC-12	FY 2012:	DEC-13
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	3	11.8	2	6.3	1	2.6													6
FY 2010 EQUIPMENT			DSA	0.4	DSA	2.5	3	8.6											3	11.5
FY 2011 EQUIPMENT					DSA	0.6	DSA	2.6	3	9.1									3	12.3
FY 2012 EQUIPMENT							DSA	0.6	DSA	2.7	3	9.3							3	12.6
FY 2013 EQUIPMENT									DSA	0.7	DSA	2.8	3	9.9					3	13.4
FY 2014 EQUIPMENT											DSA	0.6	DSA	2.8	3	9.8			3	13.2
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																	1	4.0	1	4.0

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	3	0	1	0	1	0	0	0	1	0	3	0	0	0	2	1	0	0	3	0	0	0	2	1	0	0	0	1	1	1	22
Out	1	0	0	2	0	0	1	0	1	0	0	1	0	2	1	0	0	2	0	1	0	3	0	0	0	0	3	0	0	4	22

\*Remarks: Total lead time is 24 months, which includes Administration lead time (6 months) and Production lead time (18 months). Administrative lead time includes receipts of funds, document development, contracts review, comptroller review, and vendor concurrence.  
 Design Services Allocation (DSA) - Planning Yard design and ship check required for mandatory design tasks that must be completed within the two year period prior to the actual shipyard installation.

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED CC011 ISC UPGRADE ISC EQUIPMENT	TYPE MODIFICATION:	MODIFICATION TITLE: CG MODERNIZATION
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DESCRIPTION/JUSTIFICATION:  
Procure and Install Smartship Integrated Ship Control for CG modernization

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<i>FINANCIAL PLAN( IN MILLIONS)</i>																				
<i>RDT&amp;E</i>																				
<u>PROCUREMENT</u>																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	3	25.8			1	6.3	1	6.4			2	13.5	2	13.5					9	65.5
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	3	25.0		0.4		3.1	1	10.4	1	10.2		7.0	2	24.8	2	19.1			9	100.0
<u>TOTAL PROCUREMENT</u>		50.8		0.4		9.4		16.8		10.2		20.5		38.3		19.1				165.5

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

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

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: \*6 Months      PRODUCTION LEADTIME: \*6 Months

CONTRACT DATES:	FY 2010:	FY 2011:	JUN-11	FY 2012:	JUN-12
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DELIVERY DATES:	FY 2010:	FY 2011:	DEC-11	FY 2012:	DEC-13
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	3	25.0																	3
FY 2010 EQUIPMENT																				
FY 2011 EQUIPMENT			DSA	0.4	DSA	2.5	1	7.8											1	10.7
FY 2012 EQUIPMENT					DSA	0.6	DSA	2.6	1	8.9									1	12.1
FY 2013 EQUIPMENT																				
FY 2014 EQUIPMENT									DSA	1.3	DSA	5.7	2	19.2					2	26.2
FY 2015 EQUIPMENT											DSA	1.3	DSA	5.6	2	19.1			2	26.0
FY 2016 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	1	0	1	0	9
Out	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	2	0	9

\*Remarks: Total lead time is 12 months, which include Administrative lead time (6 months) and Production lead time (6 months). Administrative lead time includes receipts of funds, document development, contracts review, comptroller review, and vendor concurrence.  
 Design Services Allocation (DSA) - Planning Yard design and ship check required for mandatory design tasks that must be completed within the two year period prior to the actual shipyard installation.



**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED CC015 MULTI-MISSION SIGPRO MULTI-MISSION SIGRPO EQUIPMENT	TYPE MODIFICATION:	MODIFICATION TITLE: CG MODERNIZATION
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DESCRIPTION/JUSTIFICATION:  
Replaces existing AN/SPY-1B/B(V) Milstandard Signal Processor with the COTS Multi-Mission SIGPRO set.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN( IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT							3	66.0	3	67.2	3	68.4								9	201.6
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST							DSA	0.4	DSA	1.7	3	8.8	3	8.5	3	7.3				9	26.7
<u>TOTAL PROCUREMENT</u>								66.4		68.9		77.2		8.5		7.3					228.3

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED MULTI-MISSION SIGPRO MULTI-MISSION SIGRPO EQUIPMENT	MODIFICATION TITLE: CG MODERNIZATION
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: \*6 Months      PRODUCTION LEADTIME: \*18 Months

CONTRACT DATES:      FY 2010:      FY 2011:      FY 2012:      JUN-12

DELIVERY DATES:      FY 2010:      FY 2011:      FY 2012:      DEC-13

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	PRIOR YEARS																				
FY 2010 EQUIPMENT																					
FY 2011 EQUIPMENT																					
FY 2012 EQUIPMENT								DSA	0.4	DSA	1.3	3	7.1							3	8.8
FY 2013 EQUIPMENT										DSA	0.4	DSA	1.3	3	7.2					3	8.9
FY 2014 EQUIPMENT												DSA	0.4	DSA	1.3	3	7.3			3	9.0
FY 2015 EQUIPMENT																					
FY 2016 EQUIPMENT																					
TO COMPLETE																					

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	3	0	0	0	2	1	0	0	1	1	1	0	9	
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3	0	0	3	9	

Remarks: Total lead time is 24 months, which includes Administration lead time (6 months) and Production lead time (18 months). Administrative lead time includes receipts of funds, document development, contracts review, comptroller review, and vendor concurrence.

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

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED CC016 SPY-1D(V) TRANSMITTER UPGRADES SPY-1D(V) TRANSMITTER EQUIPMENT	TYPE MODIFICATION:	MODIFICATION TITLE: CG MODERNIZATION
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DESCRIPTION/JUSTIFICATION:  
Provides upgrades to the existing Radio Frequency Monitor (RFM), existing Driver/Pre-Driver (DPD) and modifies existing Deckhouse Wave Guide.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN( IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT							3	30.8	3	31.3	3	31.9								9	94.0
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST							DSA	0.5	DSA	2.3	3	11.3	3	11.0	3	9.3				9	34.4
<u>TOTAL PROCUREMENT</u>								31.3		33.6		43.2		11.0		9.3					128.4

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED SPY-1D(V) TRANSMITTER UPGRADES SPY-1D(V) TRANSMITTER EQUIPMENT	MODIFICATION TITLE: CG MODERNIZATION
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: \*6 Months      PRODUCTION LEADTIME: \*18 Months

CONTRACT DATES:      FY 2010:      FY 2011:      FY 2012:      JUN-12

DELIVERY DATES:      FY 2010:      FY 2011:      FY 2012:      DEC-13

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	PRIOR YEARS																				
FY 2010 EQUIPMENT																					
FY 2011 EQUIPMENT																					
FY 2012 EQUIPMENT								DSA	0.5	DSA	1.7	3	9.0							3	11.2
FY 2013 EQUIPMENT										DSA	0.6	DSA	1.7	3	9.2					3	11.5
FY 2014 EQUIPMENT												DSA	0.6	DSA	1.8	3	9.3			3	11.7
FY 2015 EQUIPMENT																					
FY 2016 EQUIPMENT																					
TO COMPLETE																					

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	3	0	0	0	2	1	0	0	0	1	1	1	0	9
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3	0	0	3	9	

Remarks: Remarks: Total lead time is 24 months, which includes Administration lead time (6 months) and Production lead time (18 months). Administrative lead time includes receipts of funds, document development, contracts review, comptroller review, and vendor concurrence.

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

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>												
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION</b>										<b>DATE</b>				
										February 2011				
<b>APPROPRIATION/BUDGET ACTIVITY</b>					<b>P-1 LINE ITEM NOMENCLATURE</b>									
<b>OTHER PROCUREMENT, NAVY/BA 1</b>					LCAC									
					<b>BLI: 0970</b>									
Program Element for Code B Items					Other Related Program Elements									
	Prior Years	ID Code		FY 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total
Quantity	0			0	0	0	0	0	0	0	0	0	0	0
<b>COST</b>														
( In Millions)	51.3			4.9	9.1	0.0	0.0	0.0	22.6	14.4	8.2	6.6	5.4	122.5
<b>SPARES COST</b>														
( In Millions)	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>														
The LCAC (Landing Craft Air Cushion) mission is to transport weapons systems, equipment, cargo and personnel of the assault elements for 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 sustainment funding is programmed for equipment procurement using OPN to replace selected engines, personnel transport modules and propeller shrouds that the fleet urgently requires to maintain acceptable levels of readiness.														
<b>LC001 - LCAC SYSTEM UPGRADES</b>														
The LCAC System Upgrade Program provides for selected modernization through procurement and installation of components required to maintain acceptable levels of fleet operational readiness. 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 the Service Life Extension Program (SLEP) in the near future.														
<b>LC002 - ENGINES</b>														
The ETF-40B engines are enhanced versions of the current TF-40B engines and are being provided with the rest of the SLEP craft. Engine procurements are also 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.														
<b>LC004 - PERSONNEL TRANSPORT MODULES</b>														
The Personnel Transport Module (PTM) is a quick-assemble habitable shelter provided as a deployable pack-up kit to greatly increase the ability of the LCAC to carry personnel. This is a rapid reaction technology and offers a tremendous enhancement in operational capability to amphibious mission planners, with a PTM-equipped LCAC able to carry up to 200 seated or 54 litter-borne personnel versus only 24 seated with the basic craft. Due to this capability, PTMs of the current design are deployed continuously and used extensively by the fleet while operating in forward-deployed regions, for transport of large numbers of combat-loaded Marines and for non-combatant evacuation operations and disaster relief. Composite PTMs reduce maintenance costs and weight, and increase serviceable life.														
<b>LC006 - INDUSTRIAL PLANT EQUIPMENT</b>														
This line funds the refurbishment and upgrade of the Assault Craft Unit (ACU) Intermediate Maintenance Activity (IMA) Industrial Plant Equipment (IPE). Refurbishing/upgrading ACU IMA IPE increases craft readiness, reduces repair and maintenance labor and helps sustain current craft. In addition, it will support the future Ship to Shore Connector (SSC) transition.														

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>										
<b>EXHIBIT P-5 COST ANALYSIS</b>				Weapon System LCAC EQUIPMENT						DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>				ID Code		P-1 LINE ITEM NOMENCLATURE <b>LCAC</b> <b>BLI: 0970</b>						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010			FY 2011			FY 2012		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<u><b>EQUIPMENT</b></u>											
<b>LC001</b>	<u>LCAC SYSTEMS UPGRADE</u>											
	MATERIAL	A	22.573	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	INSTALLATION	A	9.455	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	GOVT ENG & PROG SUPT	A	3.192	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	DETAIL DESIGN & TESTING	A	1.445	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
<b>LC002</b>	<u>ENGINES</u>											
	ETF 40-B ENGINES	A	10.462	2	1.283	2.565	0	0.000	0.000	0	0.000	0.000
<b>LC003</b>	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
<b>LC004</b>	PERSONNEL TRANSPORT MODULES		0.000	0	0.000	0.000	5	1.200	6.000	0	0.000	0.000
<b>LC006</b>	INDUSTRIAL PLANT EQUIPMENT		0.000	0	0.000	2.335	0	0.000	3.142	0	0.000	0.000
<b>WAXXX</b>	ACQUISITION WORKFORCE FUND - 2009		0.001	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	<b>TOTAL EQUIPMENT</b>		<b>51.256</b>			<b>4.900</b>			<b>9.142</b>			<b>0.000</b>
<b>TOTAL</b>			<b>51.256</b>			<b>4.900</b>			<b>9.142</b>			<b>0.000</b>

<b>CLASSIFICATION:</b>				<b>UNCLASSIFIED</b>							
<b>Exhibit P5A, PROCUREMENT HISTORY AND PLANNING</b>					Weapon System LCAC EQUIPMENT				<b>DATE</b> February 2011		
<b>APPROPRIATION/BUDGET ACTIVITY</b> OTHER PROCUREMENT, NAVY/BA 1					<b>P-1 LINE ITEM NOMENCLATURE</b> LCAC BLI: 0970				<b>SUBHEAD</b> 11LC		
<b>COST ELEMENT</b> FISCAL YEAR	<b>Quantity</b>	<b>UNIT COST</b>	<b>LOCATION OF PCO</b>	<b>RFP ISSUE DATE</b>	<b>CONTRACT METHOD &amp; TYPE</b>	<b>CONTRACTOR AND LOCATION</b>	<b>AWARD DATE</b>	<b>DATE OF FIRST DELIVERY</b>	<b>SPEC AVAIL NOW</b>	<b>DATE REVISIONS AVAILABLE</b>	
<b>FY 2010</b>											
<b>LC002 ENGINES</b> ETF 40-B ENGINES	2	1.283	DC	AUG-10	FFP	VERICOR CORP, GA	NOV-10	OCT-11			
<b>FY 2011</b>											
<b>LC004</b> PERSONNEL TRANSPORT MODULES	5	1.200	NSWC PCD, FL	JUN-11	C/FP	TBD	JUN-11	JUN-12			
Remarks: Regarding PTM procurement, there is no RFP release. The design was a SBIR effort and downselect to winning contractor will be June 2011.											

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>												
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION</b>										<b>DATE</b>		February 2011		
<b>APPROPRIATION/BUDGET ACTIVITY</b>					<b>P-1 LINE ITEM NOMENCLATURE</b>									
<b>OTHER PROCUREMENT, NAVY/BA 1</b>					<b>UNDERWATER EOD PROGRAM</b>									
					<b>SUBHEAD NO. 71UW BLI: 0977</b>									
Program Element for Code B Items					Other Related Program Elements									
	Prior Years	ID Code		FY 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total
Quantity	0			0	0	0	0	0	0	0	0	0	0	0
<b>COST</b>														
( In Millions)	0.0			31.2	15.9	18.5	0.0	18.5	18.9	22.9	27.2	34.5	0.0	169.1
<b>SPARES COST</b>														
( In Millions)	0.0	0		8.7	7.6	6.9	0.0	6.9	7.3	8.3	8.4	8.8	0.0	56.0
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>														
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 Underwater Mine Countermeasures (UMCM). All equipment must have inherently low acoustic and magnetic signatures. Program also includes the Marine Mammal Systems (MMS).														
<b>UQ019-MINE WARFARE VULNERABILITY IDENTIFICATION PROGRAM (MIW-VIP):</b>														
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.														
<b>UQ034-UNDERWATER EOD AND MINE COUNTERMEASURES SYSTEMS/EQUIPMENT:</b>														
UNDERWATER MINE COUNTERMEASURES (UMCM) EOD UNMANNED UNDERWATER VEHICLE (UUV): Provide for the procurement of UMCM EOD Unmanned Underwater Vehicles in support of UMCM EOD Operations.														
UUV INCREMENTAL CAPABILITY IMPROVEMENT PROGRAM RETROFIT: Provides for the procurement of evolving technology insertion of retrofit upgrades to UUV systems. Upgrades are the result of incremental capability improvements to address CNO validated preplanned production improvements 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 will vary based on the number and type of technologies included and systems being upgraded.														
UNDERWATER (UW) DIVER INTEGRATED SENSORS: Provides for the procurement of a family of systems based on Modified-Off-The Shelf (MOTS), mature technologies and upgrades to Diver Integrated Sensors. Specifically, this provides for more capable diver tools in support of EOD, UMCM and Mobile Diving & Salvage Unit (MDSU) object localization, precise navigation, managing data and underwater mine location and identification. Also provides retrofit kits to improve and increase capabilities. Unit cost of individual retrofit kits may vary based on number and type of technology included in the kit.														
ADVANCED FIRING SYSTEMS (AFS): Provides for the procurement of EOD Underwater firing systems, and sub-systems. Provides retrofit improvements to increase AFS capabilities using a tool box approach. Quantities and unit cost of toolbox kits may vary based on technologies included in each kit.														



<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> UNDERWATER EOD PROGRAM <b>SUBHEAD NO. 71UW BLI: 0977</b>	
<p>DIVER SAFETY &amp; LIFE SUPPORT SYSTEMS: Provides for the procurement of a family of systems based on MOTS and mature technologies to provide safer tools and life support systems for EOD UMCM and MDSU operations. Based on family of systems concept, unit cost of individual systems and sub-systems will vary based on number and type of technology included. Beginning FY-12 Diver Safety Life Support moved under a new Cost Code UQ036.</p> <p><b>UQ035-OUTFIT EOD/ UMCM TOOLS AND EQUIPMENT:</b> UNDERWATER (UW) INTEGRATED SYSTEM INTERFACE (previously - C4I UPGRADES): Provides for the upgrade of existing EOD systems to meet UW Integrated System Interface requirements.</p> <p><b>UQ036-DIVER SAFETY &amp; LIFE SUPPORT SYSTEMS</b> DIVER SAFETY &amp; LIFE SUPPORT SYSTEMS: Provide for the procurement of a family of systems based on MOTS and mature technologies to provide safer tools and life support systems for EOD UMCM and MDSU operations.</p> <p><b>UQ037-MARINE MAMMAL SYSTEM EQUIPMENT:</b> 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>MMS LITTORAL, PORT AND HARBOR DEFENSE OPERATIONS: Acquire technologies utilizing Marine Mammal resources to optimize the rapid detection, identification, and clearance of mines, Underwater Explosives, (including Improvised Explosive Devices (IEDs)), obstructions, and other objects from ports, harbors, or littoral waters to allow for safe passage of maritime assets.</p> <p><b>UQ830-PRODUCTION ENGINEERING:</b> 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><b>UQ850-PRODUCT IMPROVEMENT:</b> 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>		

<b>CLASSIFICATION:</b>	UNCLASSIFIED	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> UNDERWATER EOD PROGRAM <b>SUBHEAD NO. 71UW BLI: 0977</b>	
<p><b>UQTNG-INITIAL TRAINING:</b> Provides training support packages which include curriculum material and training aids for Underwater EOD/UMCM systems and Marine Mammal System equipment.</p> <p><b>UWG86-OCO SUPPLEMENTAL (FY10)</b> Marine Mammal Systems Equipment: Procurement to meet Force Protection, Underwater Mine Countermeasures 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 (MK6): Procurement to transition expeditionary Sea Lion based system for MK 6 with Technology upgrades to support world wide AT/FP operations. (OCO)</p>		

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS				Weapon System						DATE		
										February 2011		
APPROPRIATION/BUDGET ACTIVITY				ID Code		P-1 LINE ITEM NOMENCLATURE						
OTHER PROCUREMENT, NAVY/BA 1						UNDERWATER EOD PROGRAM						
						SUBHEAD NO. 71UW						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<u>EQUIPMENT</u>											
UQ019	MIW-VIP	A	0.000	0	0.000	0.288	0	0.000	0.291	0	0.000	0.316
UQ034	<u>U/W EOD &amp; MCM SYSTEM/EQUIPMENT</u>											
	UMCM/EOD UUV		0.000	3	1.650	4.950	0	0.000	0.000	3	1.757	5.271
	UMCM UUV INCREMENTAL (CIP) RETROFIT	A	0.000	6	0.400	2.400	2	0.500	1.000	1	1.000	1.000
	UW DIVER INTEGRATION SENSORS	A	0.000	0	0.000	0.000	40	0.150	6.000	32	0.150	4.800
	ADVANCED FIRING SYSTEM	A	0.000	35	0.020	0.700	35	0.020	0.700	0	0.000	0.000
	DIVER SAFETY LIFE SUPPORT EQUIPMENT	A	0.000	5	0.300	1.500	55	0.040	2.200	0	0.000	0.000
UQ035	<u>OUTFIT EOD/UMCM TOOLS &amp; EQUIPMENT</u>											
	UW INTEGRATED SYSTEM INTERFACE (PREVIOUSLY C4I UPGRADES)		0.000	0	0.000	0.190	0	0.000	0.190	0	0.000	0.210
UQ036	DIVER SAFETY LIFE SUPPORT EQUIPMENT	A	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	1.200
UQ037	<u>MARINE MAMMAL SYSTEM/EQUIPMENT</u>											
	MMS ALLOWANCE		0.000	0	0.000	0.260	0	0.000	0.263	0	0.000	0.268
	MEDICAL OUTFITTING		0.000	0	0.000	0.320	0	0.000	0.542	0	0.000	0.508
	MMS ENVIRON PEN ASSEMBLIES		0.000	0	0.000	3.490	0	0.000	0.129	0	0.000	0.000
	UW LOW MAGNETIC TEST EQUIPM UPGRADE		0.000	0	0.000	0.156	0	0.000	0.126	0	0.000	0.110
	MMS CIP		0.000	0	0.000	1.310	0	0.000	1.136	0	0.000	0.000
	MMS LITTORAL PORT & HARBOR DEFENSE OPERATIONS		0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	1.194
UQ830	PRODUCTION ENGINEERING	A	0.000	0	0.000	1.752	0	0.000	1.681	0	0.000	2.049
UQ850	PRODUCT IMPROVEMENT	A	0.000	0	0.000	1.612	0	0.000	1.421	0	0.000	1.366

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>										
<b>EXHIBIT P-5 COST ANALYSIS (CONTINUATION)</b>				Weapon System						DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>				ID Code		P-1 LINE ITEM NOMENCLATURE <b>UNDERWATER EOD PROGRAM</b> <b>SUBHEAD NO. 71UW</b>						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010			FY 2011			FY 2012		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
<b>UQTNG</b>	INITIAL TRAINING	A	0.000	0	0.000	0.245	0	0.000	0.229	0	0.000	0.207
<b>UWG86</b>	<u>OCO SUPPLEMENTAL</u>											
	MARINE MAMMAL SYSTEM (MMS) - MK 4, MK 6, MK 7, & MK 8 (OCO)		0.000	0	0.000	5.040	0	0.000	0.000	0	0.000	0.000
	MARINE MAMMAL SYSTEM (MMS) - MK 6 (OCO)		0.000	0	0.000	7.000	0	0.000	0.000	0	0.000	0.000
	<b>TOTAL EQUIPMENT</b>		<b>0.000</b>			<b>31.213</b>			<b>15.908</b>			<b>18.499</b>
	<b>TOTAL</b>		<b>0.000</b>			<b>31.213</b>			<b>15.908</b>			<b>18.499</b>

CLASSIFICATION:				UNCLASSIFIED							
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE UNDERWATER EOD PROGRAM BLIN: 0977				SUBHEAD 71UW		
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	
<b>FY 2010</b>											
<b>UQ034 U/W EOD &amp; MCM SYSTEM/EQUIPMENT</b>											
UMCM/EOD UUV	3	1.650	NSWCIHD, MD		FFP	HYDROID, MA	APR-10	APR-11	YES		
UMCM UUV INCREMENTAL (CIP) RETROFIT	6	0.400	NSWCIHD, MD		FFP	HYDROID, MA	APR-10	APR-11			
ADVANCED FIRING SYSTEM	35	0.020	NAVSEA, HQ		FFP	ARL, UT	APR-10	APR-11			
DIVER SAFETY LIFE SUPPORT EQUIPMENT	5	0.300	NAVSEA, HQ		FFP	ARL, UT	APR-10	APR-11			
<b>FY 2011</b>											
<b>UQ034 U/W EOD &amp; MCM SYSTEM/EQUIPMENT</b>											
UMCM UUV INCREMENTAL (CIP) RETROFIT	2	0.500	NSWCIHD, MD		FFP	HYDROID, MA	APR-11	APR-12			
UW DIVER INTEGRATION SENSORS	40	0.150	TBD		FFP	TBD	MAR-11	MAR-12			
ADVANCED FIRING SYSTEM	35	0.020	NAVSEA, HQ		FFP	ARL, UT	APR-11	APR-12			
DIVER SAFETY LIFE SUPPORT EQUIPMENT	55	0.040	NAVSEA, HQ		FFP	ARL, UT	APR-11	APR-12			
<b>FY 2012</b>											
<b>UQ034 U/W EOD &amp; MCM SYSTEM/EQUIPMENT</b>											
UMCM/EOD UUV	3	1.757	NSWCIHD, MD		FFP	HYDROID/BLUFIN, MA	APR-12	APR-13			
UMCM UUV INCREMENTAL (CIP) RETROFIT	1	1.000	NSWCIHD, MD		FFP	BLUFIN, MA	MAY-12	MAY-13			
UW DIVER INTEGRATION SENSORS	32	0.150	TBD		FFP	TBD	MAR-12	MAR-13			

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>												
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION</b>										<b>DATE</b> February 2011				
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>					<b>P-1 LINE ITEM NOMENCLATURE</b> ITEMS LESS THAN \$5M <b>SUBHEAD NO. 81LT, 61LT BLI: 0981</b>									
Program Element for Code B Items					Other Related Program Elements									
	Prior Years	ID Code		FY 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total
Quantity	0			0	0	0	0	0	0	0	0	0	0	0
COST ( In Millions)	372.2			123.6	126.8	113.8	0.0	113.8	115.0	133.6	137.4	195.5	0.0	1,317.9
SPARES COST ( In Millions)	0.0			3.9	0.4	2.9	0.0	2.9	3.4	4.1	0.8	1.3	0.0	16.8
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>														
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. This equipment accomplishes Program alterations for installation during CNO and Fleet availabilities, fills Fleet requisitions from casualties and attrition, provide tech refresh upgrades, and replaces 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 install various equipment including machinery pumps, generators, ships propellers and shafts, air compressors, davits, A/C Plants, and steam propulsion items. It also procures allowance items as required by the Coordinated Shipboard Allowance List (COSAL). Major programs are the LPD 17 Class Upgrades, Landing Craft Air Cushion (LCAC), MACHALTs, Carrier Smart Ship, Patrol Coastal Modernization and CVN Class Machinery Plant Upgrades.														
<b>LT010 - LANDING CRAFT AIR CUSHION (LCAC)</b>														
This line funds material procurement, 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 the 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.														
<b>LT040 - AEC (ASSESSMENT OF EQUIPMENT CONDITION)</b>														
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, on the job training and repair assistance to ships during TYCOM's TARGET process. These funds are for the outfitting and periodic replacement of the AEC team's Test Measurement and Diagnostic Equipment (TMDE) inventories, to provide deckplate diagnostic capability to improve the quality of AEC's process and products, and to leverage technology to streamline the visit process.														
<b>LT060 - MACHALTS</b>														
The Machinery Alteration Program (MACHALT) permits changes to HM&E equipment and systems which are contained within the boundaries of the individual equipment of systems and have limited system ramifications.														
<b>LT070 - FFG 7 CLASS MODERNIZATION</b>														
This program consists of 30 ships with 10 ships incorporating the Coherent Receiver Transmitter (CORT) baseline. The shipalts presented in the budget are for procurement of Ship's Service Diesel Generator (SSDG) Engines.														
<b>LT090 - LITTORAL COMBAT SHIP (LCS)</b>														

<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> ITEMS LESS THAN \$5M <b>SUBHEAD NO. 81LT, 61LT BLI: 0981</b>	
<p>The LCS class ships are propelled by waterjets (WJ). These items are designed to be removable and repaired at a depot. This program procures WJ units and the major WJ component, Impeller. These items will be designated 2S cog material. Each ship has 4 waterjets. Each variant of LCS (LCS-1, built by Lockheed Martin, with Rolls Royce Waterjets, and LCS-2, built by General Dynamics, with Wartsila Lips Waterjets) are different, with differently designed waterjets from different manufacturers. Note: the waterjet assemblies being procured are mounted external to the ship on the transom. The components internal to the ship are not included with this assembly.</p> <p><b>LT110- VARIOUS PROPELLERS AND SHAFTS</b> This funding procures spare water borne shafting (propeller shafts and stern tube shafts) and Controllable Pitch Propeller (CPP) system end items such as propeller blades, hubs and Oil Distribution (OD) boxes used on DDG 51 class ships. These spares are required to meet DDG 51 class Fleet demand requirements and ensure readiness. 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 times, 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 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 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><b>LT120 - PROPULSION PLANT INSPECTION TOOLING</b> Funds will be utilized to procure the latest technology inspection system tooling, i.e., laser-optic, ultrasonic, fiber-optic and electro-optic inspection systems.</p> <p><b>LT130 - STEAM PROPULSION ITEMS</b> 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 a Regular Overhaul (ROH), Selected Restricted Availability (SRA), Restricted availability by a shipyard, tender/Intermediate Maintenance Activity or Alteration Installation Team (AIT).</p> <p><b>LT140 - SMART SHIP</b> 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 CG 47, LSD 47 and on 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><b>LT160 - MACHINERY PLANT UPGRADES (INTEGRATED COMMUNICATIONS AND ADVANCED NETWORK (ICAN)</b> 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 upgradeable for rapid and cost effective expansion to support new technologies, such as IT-21, and is compatible with the Navy's integrated Information Networks MOA.</p> <p><b>LT240 -LPD 17 HARDWARE/SOFTWARE OBSOLESCENCE, SHORE-BASED SPARES, FORCENET UPGRADE, RADAR FENCES &amp; CAPABILITY/SAFETY UPGRADES</b> This effort addresses hardware obsolescence/technology refreshment issues, shored-based spares, the DoD-mandated ForceNet Upgrade (IPv6) requirement, and class upgrades focused on increased</p>		

<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> ITEMS LESS THAN \$5M <b>SUBHEAD NO. 81LT, 61LT BLI: 0981</b>	
<p>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 Systems, 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 class 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 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. Additional funding is required to procure Radar Fences and install in conjunction with the SPS-48E radar system in the Advanced Enclosed Mast System (AEMS). The Radar Fences will increase ship self-defense by optimizing radar detection and enhancing performance capabilities against low radar cross-section/high-diving targets. Funding for Schoolhouse Technical Training Equipment (TTE) is for the infrastructure and equipment to set up the schoolhouses for multiple systems such as ECS, SCS and SWAN. The schoolhouses will provide critical training to Sailors in operation and maintenance of those systems. System Kits funding will provide for the modernization of contractor furnished equipment as those systems transition to government In-Service Engineering Agent responsibility. 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><b>LT306 - AUTOMATED VOLTAGE REGULATOR</b> The CVN Automatic Voltage Regulator is a microprocessor based voltage regulator system for the NIMITZ Class, programmed to replace the legacy analog voltage regulator, which, although operational, lacks the improved reliability and lower maintenance costs of the AVR. It controls the output voltage of a turbine generator (TG), which converts steam into the electricity used for aircraft and combat operations, and reactor cooling.</p> <p><b>LT307 - CANNED LUBE OIL PUMP</b> The Canned Lube Oil Pump (CLOP) with a two-speed motor will replace both the Standby Lube Oil Pump (SLOP) and Emergency Lube Oil Pump (ELOP) on all CVN-68 Class ships. The ships have repeatedly overhauled SLOPs to replace turbine and reduction gear parts as well as replacing leaking mechanical seals at excessive costs. The ELOPs are also regularly overhauled to replace leaking mechanical seals. In addition, the installed ELOP does not meet all operational requirements for a Lube Oil System. The motor and pump are an integral piece on the CLOP which alleviates any alignment issues and a mechanical seal is no longer required.</p> <p><b>LT308 - LHD MIDLIFE, LHA MIDLIFE/SUSTAINMENT</b> Funding provides for the procurement of Rigid Inflatable Boat (RIB) Davits for LHA and LHD Class Ships. These allow ships to utilize Navy Standard 11M RIBs which replace antiquated Landing Craft Personnel (LCPL) boats which are no longer supported and present a maintenance burden, reduction in operational availability and jeopardize ships' ability to perform Anti-Terrorism Force Protection (ATFP) missions.</p> <p><b>LT309- SOLID-STATE LIGHTING (SSL) SYSTEM</b> Funds provide for replacement of fluorescent and incandescent lighting fixtures installed on surface combatants and Amphibious Class ships with a Solid-State Lighting (SSL) system. Solid State Lighting refers to a type of lighting that uses semiconductor Light-Emitting Diodes (LEDs), Organic Light-Emitting Diodes (OLEDs), or Polymer Light-Emitting Diodes (PLEDs) as sources of illumination rather than electrical filaments, plasma (used in arc lamps such as fluorescent lamps) or gas.</p> <p><b>LT311- INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS)</b> Integrated Condition Assessment System (ICAS) and the ICAS Remote Monitoring Utility (RMU) software package will allow ship-based and shore-based monitoring of Hull, Mechanical, and Electrical (HM&amp;E) equipment aboard LSD 41/49 ships.</p> <p><b>LT312 - T-AGS 66 OCEANOGRAPHIC SURVEY MISSION EQUIPMENT</b> Funds provide for the procurement and installation of Oceanographic Survey Mission equipment for the TAGS66. Specifically, a Side Scan Sonar (SSS), Autonomous Undersea Vehicle (AUV) Support</p>		



<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> ITEMS LESS THAN \$5M <b>SUBHEAD NO. 81LT, 61LT BLI: 0981</b>	
<p>System and Moving Vessel Profiler (MVP).</p> <p><b>LT313 - AS-39 MODERNIZATION</b> 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 installation of switchboards, upgrades to the steam propulsion plant, traveling crane replacement and installation of HVAC upgrades.</p> <p><b>LT316 - PATROL COASTAL MODERNIZATION</b> The PC Sustainment Program provides necessary modifications and upgrades to keep PC 1 class ships in-service and supportable through their expected service lives (until 2025). Upgrades include Heating, Ventilating and Air Conditioning (HVAC) upgrades, Electronic Chart Display and Information System-Navy (ECDIS-N) upgrades and procurement and install of Forward Looking Infrared (FLIR).</p> <p><b>LT830 - PRODUCTION ENGINEERING</b> 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><b>LT5IN, LT6IN, LT7IN, LT8IN- INSTALLATION OF EQUIPMENT</b> Funding is for installation of equipment in support of the Fleet Modernization Program (FMP).</p> <p><b>LTCA4 -CANNED LUBE PUMP LHD-1 CLASS (FY10 CONGRESSIONAL ADD)</b> The Canned Lube Oil Pump (CLOP) will replace the existing Main Propulsion Diesel Engine (MPDE) Standby Lube Oil Pumps which are obsolete and maintenance intensive. The existing lube oil pumps 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. CLOP's require no seal replacements, no coupling lubrication or complicated alignment and have only three (3) wearing parts.</p> <p><b>LTCB7-THE REMOTE MONITORING AND TROUBLESHOOTING (RMAT) PROJECT (FY10 CONGRESSIONAL ADD)</b> 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> <p><b>LTCB8 - SECURE REMOTE MONITORING SYSTEM (SRMS) - (FY10 CONGRESSIONAL ADD)</b> Secure Remote Monitoring System (SRMS) provides multi-level security for cross-domain connectivity supporting Shipboard LAN information transfer between classified data centers aboard ship and unclassified shipboard spaces; as well as distant support and remote monitoring centers ashore for Fleet logistics and maintenance decisions-making. It gives the required Information Assurance and protection to maintain the integrity of the Machine Control System, Shipboard Controls Network, Integrated Bridge Systems, and other shipboard networks. It will allow real-time ship-to-shore connectivity for remote monitoring, diagnostics, troubleshooting and repair thereby, enhancing the ships war-fighting capability by improving both mission readiness and cost effectiveness of maintenance operations.</p> <p><b>LTCB9 - ROLLS ROYCE WATERJETS FOR LCS 1 CLASS (FY10 CONGRESSIONAL ADD)</b> The LCS class ships are propelled by waterjets (WJ). These items are designed to be removable and repaired at a depot. This program procures WJ units and the major WJ component, Impeller. These items will be designated 2S cog material. Each ship has 4 waterjets. The LCS-1 is built by Lockheed Martin and uses Rolls Royce waterjets for which this funding is provided. Note: the waterjet assemblies being procured are mounted external to the ship on the transom, the components internal to the ship are not included with this assembly.</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						ITEMS LESS THAN \$5M						
						SUBHEAD NO. 81LT, 61LT						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<u>EQUIPMENT</u>											
	<u>INFORMATION DOMINANCE</u>											
LT312	<u>T-AGS OCEANOGRAPHIC SURVEY MISSION EQUIPMENT</u>											
	MOVING VESSEL PROFILER (MVP)		0.000	0	0.000	0.000	0	0.000	0.000	1	0.762	0.762
	SIDE SCAN SONAR (SSS)		0.000	0	0.000	0.000	0	0.000	0.000	1	0.650	0.650
	AUV SUPPORT SYSTEM		0.000	0	0.000	0.000	0	0.000	0.000	1	1.538	1.538
	<b>INFORMATION DOMINANCE Subtotal</b>		<b>0.000</b>			<b>0.000</b>			<b>0.000</b>			<b>2.950</b>
	<u>EXPEDITIONARY WARFARE</u>											
LT010	MOD KITS LAND CRAFT CUSHION		12.668	0	0.000	2.436	0	0.000	6.333	0	0.000	0.000
LT060	MACHALTS (AMPHIB SHIPS)		4.599	0	0.000	1.506	0	0.000	1.751	0	0.000	4.702
LT110	<u>PROPELLERS AND SHAFTS</u>											
	LHD 8 SHAFTS		0.000	1	2.179	2.179	0	0.000	0.000	0	0.000	0.000
LT240	<u>LPD 17</u>											
	RADAR FENCES		0.000	0	0.000	0.000	3	0.255	0.765	3	0.217	0.650
	SCHOOLHOUSE TTE		0.000	0	0.000	0.000	0	0.000	0.000	1	7.284	7.284
	HF ALE		2.400	0	0.000	0.000	3	0.450	1.350	0	0.000	0.000
	SYSTEM KITS		0.000	0	0.000	0.000	0	0.000	0.465	0	0.000	2.690
	LPD 17 HW/SW OBSOLESCENCE		2.428	0	0.000	0.000	1	1.775	1.775	1	6.184	6.184
	FORCENET UPGRADE (IPV6)		29.432	0	0.000	0.000	1	6.655	6.655	0	0.000	0.000
	SHORE BASED SPARES		14.404	0	0.000	0.403	0	0.000	0.000	0	0.000	2.687
LT308	<u>LHD MIDLIFE, LHA MIDLIFE/SUSTAINABILITY</u>											

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						ITEMS LESS THAN \$5M						
						SUBHEAD NO. 81LT, 61LT						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	BOAT (RIB) DAVITS		7.725	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
LT309	<u>SOLID-STATE LIGHTING (SSL)</u>											
	SOLID-STATE LIGHTING (SSL) SYSTEM PROCUREMENT		0.000	0	0.000	0.000	0	0.000	0.000	2	0.395	0.790
	SOLID-STATE LIGHTING (SSL) INSTALL		0.000	0	0.000	0.000	0	0.000	0.000	2	0.476	0.952
LT311	ICAS - INTEGRATED CONDITION ASSESSMENT SYSTEM		0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.315
LTCA4	CANNED LUBE PUMP LHD-1 CLASS		0.000	0	0.000	0.800	0	0.000	0.000	0	0.000	0.000
	<b>EXPEDITIONARY WARFARE Subtotal</b>		<b>73.656</b>			<b>7.324</b>			<b>19.094</b>			<b>26.254</b>
	<u><b>SURFACE WARFARE</b></u>											
LT040	AEC		0.825	0	0.000	0.435	0	0.000	0.437	0	0.000	0.443
LT060	MACHALTS (SURFACE SHIPS)		11.392	0	0.000	8.851	0	0.000	11.579	0	0.000	11.526
LT070	<u>FFG7 CLASS MODERNIZATION</u>											
	SSDG (SHIPSET=4 GENERATORS)		26.200	0	0.000	0.000	1	1.600	1.600	0	0.000	0.000
	PROGRAM SUPPORT		0.000	0	0.000	0.117	0	0.000	0.000	0	0.000	0.000
LT090	<u>LCS</u>											
	WATER JET IMPELLER (LM VARIANT 1)		0.000	4	0.674	2.694	0	0.000	0.000	0	0.000	0.000
	WATER JET IMPELLER ASSEMBLY (LM VARIANT 1)		0.000	0	0.000	0.000	4	2.198	8.792	3	2.310	6.931
	WATER JET IMPELLER (GD VARIANT 2)		0.200	2	0.683	1.365	1	0.709	0.709	5	0.786	3.928
	WATER JET IMPELLER ASSEMBLY (GD VARIANT 2)		0.000	0	0.000	0.000	3	1.529	4.587	0	0.000	0.000
LT110	<u>PROPELLERS AND SHAFTS</u>											

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)				Weapon System						DATE		
										February 2011		
APPROPRIATION/BUDGET ACTIVITY				ID Code		P-1 LINE ITEM NOMENCLATURE						
OTHER PROCUREMENT, NAVY/BA 1						ITEMS LESS THAN \$5M						
						SUBHEAD NO. 81LT, 61LT						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	BLADE SET PORT/STBD, DDG51 CL		0.503	0	0.000	0.000	0	0.000	0.000	1	0.500	0.500
	HUB SET PORT/STBD DDG51 CL		1.291	3	0.900	2.700	2	0.900	1.800	1	0.900	0.900
	PROP SHAFT DDG-51 CL		4.070	2	1.320	2.640	2	1.366	2.732	1	1.327	1.327
	STERN TUBE DDG51 CL		3.320	2	1.000	2.000	2	1.075	2.150	1	1.000	1.000
	OIL DISTRIBUTION (OD) BOX, DDG51 CL CPP		0.800	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
LT130	STEAM PROPULSION ITEMS		0.585	0	0.000	0.304	0	0.000	0.310	0	0.000	0.317
LT309	<u>SOLID-STATE LIGHTING (SSL)</u>											
	SOLID-STATE LIGHTING (SSL) SYSTEM PROCUREMENT		0.000	0	0.000	0.000	0	0.000	0.000	4	0.460	1.840
	SOLID-STATE LIGHTING (SSL) INSTALL		0.000	0	0.000	0.000	0	0.000	0.000	4	0.397	1.586
LT316	<u>PATROL COASTAL MODERNIZATION</u>											
	ECDIS-N		0.900	0	0.000	0.000	0	0.000	0.000	1	0.409	0.409
	HVAC UPGRADES		4.500	0	0.000	0.000	0	0.000	0.000	1	0.900	0.900
	NAVIGATION UPGRADE		0.522	0	0.000	0.000	0	0.000	0.000	1	0.250	0.250
	FLIR		0.000	0	0.000	0.000	0	0.000	0.000	1	0.790	0.790
	MAIN PROPULSION DIESEL ENGINE		0.000	1	5.403	5.403	0	0.000	0.000	0	0.000	0.000
LTCB7	REMOTE MONITORING AND TROUBLESHOOTING		2.500	0	0.000	2.320	0	0.000	0.000	0	0.000	0.000
LTCB8	SECURE REMOTE MONITORING SYSTEM		0.000	0	0.000	1.600	0	0.000	0.000	0	0.000	0.000
LTCB9	<u>ROLLS ROYCE WATERJETS FOR LCS 1 CLASS</u>											
	WATER JET IMPELLER ASSEMBLY (LM VARIANT 1)		0.000	2	0.673	1.346	0	0.000	0.000	0	0.000	0.000
	WATER JET IMPELLER (LM VARIANT 1)		0.000	1	1.854	1.854	0	0.000	0.000	0	0.000	0.000
	<b>SURFACE WARFARE Subtotal</b>		<b>57.608</b>			<b>33.629</b>			<b>34.696</b>			<b>32.647</b>

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)				Weapon System						DATE		
										February 2011		
APPROPRIATION/BUDGET ACTIVITY				ID Code		P-1 LINE ITEM NOMENCLATURE						
OTHER PROCUREMENT, NAVY/BA 1						ITEMS LESS THAN \$5M						
						SUBHEAD NO. 81LT, 61LT						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<b><u>SUBMARINE WARFARE</u></b>											
LT313	AS-39 MODERNIZATION											
	MAIN PROPULSION		6.272	0	0.000	0.255	1	0.894	0.894	0	0.000	0.000
	REPLACE TRAVELING CRANES		0.000	0	0.000	0.000	0	0.000	0.000	1	3.369	3.369
	SELF CONTAINED AC UNITS		0.000	0	0.000	0.000	1	1.035	1.035	0	0.000	0.000
	ELECTRICAL UPGRADES		2.001	0	0.000	0.000	1	1.278	1.278	1	0.492	0.492
	<b>SUBMARINE WARFARE Subtotal</b>		<b>8.273</b>			<b>0.255</b>			<b>3.207</b>			<b>3.861</b>
	<b><u>AIR WARFARE</u></b>											
LT120	PROPULSION PLANT INSPECTION		0.347	0	0.000	0.173	0	0.000	0.173	0	0.000	0.170
LT140	SMARTSHIP		51.053	1	15.630	15.630	1	16.089	16.089	0	0.000	0.000
LT160	MACHINERY PLANT UPGRADES		26.056	2	2.950	5.900	1	3.200	3.200	2	2.705	5.410
LT306	<u>AUTO VOLTAGE REGULATOR PROGRAM</u>											
	AUTO VOLTAGE REGULATOR		8.516	16	0.449	7.184	4	0.521	2.084	20	0.435	8.700
	FIELD ENGINEERING SERVICES		0.567	0	0.000	0.250	0	0.000	0.200	0	0.000	0.300
LT307	CANNED LUBE OIL PUMP		0.000	0	0.000	0.000	8	0.350	2.800	8	0.360	2.880
LT830	PRODUCTION ENGINEERING		0.077	0	0.000	0.040	0	0.000	0.041	0	0.000	0.040
	<b>AIR WARFARE Subtotal</b>		<b>86.616</b>			<b>29.177</b>			<b>24.587</b>			<b>17.500</b>
	<b>TOTAL EQUIPMENT</b>		<b>226.153</b>			<b>70.385</b>			<b>81.584</b>			<b>83.212</b>

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)				Weapon System						DATE		
										February 2011		
APPROPRIATION/BUDGET ACTIVITY				ID Code		P-1 LINE ITEM NOMENCLATURE						
OTHER PROCUREMENT, NAVY/BA 1						ITEMS LESS THAN \$5M						
						SUBHEAD NO. 81LT, 61LT						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
LT5IN  LT6IN  LT7IN  LT8IN	<u>INSTALLATION</u>											
	INSTALL OF EQUIPMENT N85		81.461	0	0.000	19.179	0	0.000	19.286	0	0.000	4.419
	INSTALL OF EQUIPMENT N86		35.921	0	0.000	19.016	0	0.000	10.216	0	0.000	2.074
	INSTALL OF EQUIPMENT N87		4.264	0	0.000	4.143	0	0.000	3.008	0	0.000	3.834
	INSTALL OF EQUIPMENT N88		24.372	0	0.000	10.912	0	0.000	12.748	0	0.000	20.270
	TOTAL INSTALLATION		146.018			53.250			45.258			30.597
TOTAL			372.171			123.635			126.842			113.809

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE	
APPROPRIATION/BUDGET ACTIVITY					P-1 LINE ITEM NOMENCLATURE				SUBHEAD	
OTHER PROCUREMENT, NAVY/BA 1					ITEMS LESS THAN \$5M				81LT, 61LT	
BLIN: 0981										
COST ELEMENT	Quantity	UNIT	LOCATION	RFP ISSUE	CONTRACT	CONTRACTOR	AWARD	DATE OF	SPEC	DATE
FISCAL YEAR		COST	OF PCO	DATE	METHOD	AND LOCATION	DATE	FIRST	AVAIL	REVISIONS
					& TYPE			DELIVERY	NOW	AVAILABLE
<b>FY 2010</b>										
<b>LT110 PROPELLERS AND SHAFTS</b>										
LHD 8 SHAFTS	1	2.179	NAVICP		FP (OPT)	ERIE FORGE, PA	NOV-10	MAY-12		
<b>LT090 LCS</b>										
WATER JET IMPELLER (LM VARIANT 1)	4	0.674	NAVICP		FP	ROLLS ROYCE, MS	APR-11	APR-13		
WATER JET IMPELLER (GD VARIANT 2)	2	0.683	NAVICP		FP	WARTSILLA, VA	APR-11	APR-13		
<b>LT110 PROPELLERS AND SHAFTS</b>										
HUB SET PORT/STBD DDG51 CL	3	0.900	NAVICP		FP	ROLLS ROYCE, MS	AUG-10	SEP-11		
PROP SHAFT DDG-51 CL	2	1.320	NAVICP		FP	ERIE FORGE, PA	AUG-10	SEP-12		
STERN TUBE DDG51 CL	2	1.000	NAVICP		FP	ERIE FORGE, PA	AUG-10	SEP-12		
<b>LT316 PATROL COASTAL MODERNIZATION</b>										
MAIN PROPULSION DIESEL ENGINE	1	5.403	NAVICP		FP	MANDIESEL, UK	JUN-10	AUG-10		
<b>LTCB9 ROLLS ROYCE WATERJETS FOR LCS 1 CLASS</b>										
WATER JET IMPELLER ASSEMBLY (LM VARIANT 1)	2	0.673	NAVICP		FP	ROLLS ROYCE, MS	APR-11	APR-13		
WATER JET IMPELLER (LM VARIANT 1)	1	1.854	NAVICP		FP	ROLLS ROYCE, MS	APR-11	APR-13		
<b>LT140</b>										
SMARTSHIP	1	15.630	NSWC, PHILA		VARIOUS	VARIOUS	APR-10	JUN-10		
<b>LT160</b>										
MACHINERY PLANT UPGRADES	2	2.950	NSWC, PHILA		VARIOUS	VARIOUS	FEB-10	MAY-10		
<b>LT306 AUTO VOLTAGE REGULATOR PROGRAM</b>										
AUTO VOLTAGE REGULATOR	16	0.449	NAVSEA		CPFF	NG P/CS, MD	JUL-10	FEB-12		
<b>FY 2011</b>										
<b>LT240 LPD 17</b>										
RADAR FENCES	3	0.255	NAVSEA		CPAF	HOFFMAN DESIGN, IN	MAR-11	AUG-11		
HF ALE	3	0.450	SSC CHARLESTON		SS	HARRIS, NY	MAR-11	AUG-11		
LPD 17 HW/SW OBSOLESCENCE	1	1.775	NAVSEA		CPAF	RAYTHEON CO, CA	JAN-11	MAY-11		
FORCENET UPGRADE (IPV6)	1	6.655	NAVSEA		CPAF	RAYTHEON CO, CA	APR-11	SEP-11		

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				DATE	
APPROPRIATION/BUDGET ACTIVITY					P-1 LINE ITEM NOMENCLATURE				SUBHEAD	
OTHER PROCUREMENT, NAVY/BA 1					ITEMS LESS THAN \$5M				81LT, 61LT	
					BLIN: 0981					
COST ELEMENT	Quantity	UNIT	LOCATION	RFP ISSUE	CONTRACT	CONTRACTOR	AWARD	DATE OF	SPEC	DATE
FISCAL YEAR		COST	OF PCO	DATE	METHOD	AND LOCATION	DATE	FIRST	AVAIL	REVISIONS
					& TYPE			DELIVERY	NOW	AVAILABLE
<b>LT070 FFG7 CLASS MODERNIZATION</b>										
SSDG (SHIPSET=4 GENERATORS)	1	1.600	NSWC, PHILA		FP	CATERPILLAR	JUL-11	SEP-11		
<b>LT090 LCS</b>										
WATER JET IMPELLER ASSEMBLY (LM VARIANT 1)	4	2.198	NAVICP		FP	ROLLS ROYCE, MS	MAY-11	MAY-13		
WATER JET IMPELLER (GD VARIANT 2)	1	0.709	NAVICP		FP	WARTSILLA, VA	MAY-11	MAY-13		
WATER JET IMPELLER ASSEMBLY (GD VARIANT 2)	3	1.529	NAVICP		FP	WARTSILLA, VA	MAY-11	MAY-13		
<b>LT110 PROPELLERS AND SHAFTS</b>										
HUB SET PORT/STBD DDG51 CL	2	0.900	NAVICP		FP	ROLLS ROYCE, MS	JUN-11	MAY-12		
PROP SHAFT DDG-51 CL	2	1.366	NAVICP		FP	ERIE FORGE, PA	JUN-11	JUN-13		
STERN TUBE DDG51 CL	2	1.075	NAVICP		FP	ERIE FORGE, PA	JUN-11	JUN-13		
<b>LT313 AS-39 MODERNIZATION</b>										
MAIN PROPULSION	1	0.894	NSWC, PHILA		FP	GENERAL DYNAMICS, PA	MAY-11	FEB-12		
SELF CONTAINED AC UNITS	1	1.035	MSC		FP	TBD	MAR-11	JUL-11		
ELECTRICAL UPGRADES	1	1.278	NSWC, PHILA		FP	GENERAL DYNAMICS, PA	APR-11	JAN-12		
<b>LT140</b>										
SMARTSHIP	1	16.089	NSWC, PHILA		VARIOUS	VARIOUS	FEB-11	APR-11		
<b>LT160</b>										
MACHINERY PLANT UPGRADES	1	3.200	NSWC PHILA		VARIOUS	VARIOUS	FEB-11	MAY-11		
<b>LT306 AUTO VOLTAGE REGULATOR PROGRAM</b>										
AUTO VOLTAGE REGULATOR	4	0.521	NAVSEA		CPFF	NG P/CS, MD	JUN-11	JAN-13		
<b>LT307</b>										
CANNED LUBE OIL PUMP	8	0.350	NSWC PHILA		TBD	TBD	JAN-11	NOV-11		
<b>FY 2012</b>										
<b>LT312 T-AGS OCEANOGRAPHIC SURVEY MISSION EQUIPMENT</b>										
MOVING VESSEL PROFILER (MVP)	1	0.762	NAVSEA		FP	ROLLS ROYCE, NOVA SCOTIA	JAN-12	JUL-13		
SIDE SCAN SONAR (SSS)	1	0.650	NAVSEA		FP	SALEM, NH	JAN-12	JUL-13		
AUV SUPPORT SYSTEM	1	1.538	NAVSEA		FP	TBD	APR-12	AUG-13		
<b>LT240 LPD 17</b>										



CLASSIFICATION:				UNCLASSIFIED							
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				DATE		
APPROPRIATION/BUDGET ACTIVITY					P-1 LINE ITEM NOMENCLATURE				SUBHEAD		
OTHER PROCUREMENT, NAVY/BA 1					ITEMS LESS THAN \$5M				81LT, 61LT		
					BLIN: 0981						
COST ELEMENT	Quantity	UNIT	LOCATION	RFP ISSUE	CONTRACT	CONTRACTOR	AWARD	DATE OF	SPEC	DATE	
FISCAL YEAR		COST	OF PCO	DATE	METHOD	AND LOCATION	DATE	FIRST	AVAIL	REVISIONS	
					& TYPE			DELIVERY	NOW	AVAILABLE	
RADAR FENCES	3	0.217	NAVSEA		CPAF	HOFFMAN DESIGN, IN	DEC-11	JUL-12			
SCHOOLHOUSE TTE	1	7.284	NAVSEA		CPAF	TBD	DEC-11	JUL-12			
LPD 17 HW/SW OBSOLESCENCE	1	6.184	NAVSEA		CPAF	RAYTHEON CO, CA	DEC-11	JUL-12			
<b>LT309 SOLID-STATE LIGHTING (SSL)</b>											
SOLID-STATE LIGHTING (SSL) SYSTEM PROCUREMENT	2	0.395	NAVSEA		TBD	TBD	DEC-11	JUN-11			
SOLID-STATE LIGHTING (SSL) INSTALL	2	0.476	NAVSEA		TBD	TBD	DEC-11	JUN-11			
<b>LT090 LCS</b>											
WATER JET IMPELLER ASSEMBLY (LM VARIANT 1)	3	2.310	NAVICP		FP	ROLLS ROYCE	JAN-12	JAN-14			
WATER JET IMPELLER (GD VARIANT 2)	5	0.786	NAVICP		FP	WARTSILLA, VA	JAN-12	JAN-14			
<b>LT110 PROPELLERS AND SHAFTS</b>											
BLADE SET PORT/STBD, DDG51 CL	1	0.500	NAVICP		FP	ROLLS ROYCE, MS	JUN-12	APR-13			
HUB SET PORT/STBD DDG51 CL	1	0.900	NAVICP		FP	ROLLS ROYCE, MS	JUN-12	APR-13			
PROP SHAFT DDG-51 CL	1	1.327	NAVICP		FP	ERIE FORGE, PA	JUN-12	APR-14			
STERN TUBE DDG51 CL	1	1.000	NAVICP		FP	ERIE FORGE, PA	JUN-12	APR-14			
<b>LT309 SOLID-STATE LIGHTING (SSL)</b>											
SOLID-STATE LIGHTING (SSL) SYSTEM PROCUREMENT	4	0.460	NAVSEA		TBD	TBD	DEC-11	JUN-11			
SOLID-STATE LIGHTING (SSL) INSTALL	4	0.397	NAVSEA		TBD	TBD	DEC-11	JUN-11			
<b>LT316 PATROL COASTAL MODERNIZATION</b>											
ECDIS-N	1	0.409	NSWC PHILA		FP	TBD	MAR-12	SEP-12			
HVAC UPGRADES	1	0.900	NSWC PHILA		FP	TBD	MAR-12	SEP-12			
NAVIGATION UPGRADE	1	0.250	SPAWAR		FP	TBD	MAR-12	SEP-12			
FLIR	1	0.790	NSWC PHILA		FP	TBD	MAR-12	SEP-12			
<b>LT313 AS-39 MODERNIZATION</b>											
REPLACE TRAVELING CRANES	1	3.369	MSC		TBD	TBD	FEB-12	OCT-12			
ELECTRICAL UPGRADES	1	0.492	MSC		TBD	TBD	JAN-12	OCT-12			
<b>LT160</b>											
MACHINERY PLANT UPGRADES	2	2.705	NSWC, PHILA		VARIOUS	VARIOUS	NOV-11	FEB-12			
<b>LT306 AUTO VOLTAGE REGULATOR PROGRAM</b>											
AUTO VOLTAGE REGULATOR	20	0.435	NAVSEA		CPFF	NG P/CS, MD	MAY-12	DEC-13			

<b>CLASSIFICATION:</b>				<b>UNCLASSIFIED</b>							
<b>Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)</b>					Weapon System				<b>DATE</b> February 2011		
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>					<b>P-1 LINE ITEM NOMENCLATURE</b> <b>ITEMS LESS THAN \$5M</b> <b>BLIN: 0981</b>				<b>SUBHEAD</b> 81LT, 61LT		
<b>COST ELEMENT</b>	<b>Quantity</b>	<b>UNIT</b>	<b>LOCATION</b>	<b>RFP ISSUE</b>	<b>CONTRACT</b>	<b>CONTRACTOR</b>	<b>AWARD</b>	<b>DATE OF</b>	<b>SPEC</b>	<b>DATE</b>	
<b>FISCAL YEAR</b>		<b>COST</b>	<b>OF PCO</b>	<b>DATE</b>	<b>METHOD</b>	<b>AND LOCATION</b>	<b>DATE</b>	<b>FIRST</b>	<b>AVAIL</b>	<b>REVISIONS</b>	
					<b>&amp; TYPE</b>			<b>DELIVERY</b>	<b>NOW</b>	<b>AVAILABLE</b>	
<b>LT307</b>											
CANNED LUBE OIL PUMP	8	0.360	NSWC, PHILA		TBD	TBD	JAN-12	NOV-12			

**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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<u>FINANCIAL PLAN( IN MILLIONS)</u>																					
<u>RDT&amp;E</u>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	20	26.2			1	1.6														21	27.8
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	17	69.7	2	17.8	2	10.2														21	97.7
<u>TOTAL PROCUREMENT</u>		95.9		17.8		11.8															125.5

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED FFG7 CLASS MODERNIZATION SSDG (SHIPSET=4 GENERATORS)	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD/COMP

ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 2 Months

CONTRACT DATES: FY 2010: FY 2011: JUL-11 FY 2012:

DELIVERY DATES: FY 2010: FY 2011: SEP-11 FY 2012:

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	17	69.7	2	15.0	1	3.8													20
FY 2010 EQUIPMENT																				
FY 2011 EQUIPMENT			AP	2.8	1	6.4													1	9.2
FY 2012 EQUIPMENT																				
FY 2013 EQUIPMENT																				
FY 2014 EQUIPMENT																				
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	17	1	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Out	17	0	0	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21

Remarks:  
FY11 Install Cost differences between two installs due to higher Puget Sound Naval Shipyard Manday Rate

**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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	<u>FINANCIAL PLAN( IN MILLIONS)</u>																				
<u>RDT&amp;E</u>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	14	26.1	2	5.9	1	3.2	2	5.4	2	5.9	5	15.8	3	9.5	4	13.6			33	85.4	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	14	56.1	2	7.4	1	7.7	2	8.4	2	18.3	4	46.9	4	57.3	4	54.6			33	256.7	
<u>TOTAL PROCUREMENT</u>		82.2		13.3		10.9		13.8		24.2		62.7		66.8		68.2					342.1

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

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

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 2 Months PRODUCTION LEADTIME: 3 Months

CONTRACT DATES:		FY 2010:	FEB-10	FY 2011:	FEB-11	FY 2012:	NOV-11
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DELIVERY DATES:		FY 2010:	MAY-10	FY 2011:	MAY-11	FY 2012:	FEB-12
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	14	55.4																	14
FY 2010 EQUIPMENT	AP	0.7	2	6.9															2	7.6
FY 2011 EQUIPMENT			AP	0.5	1	6.5													1	7.0
FY 2012 EQUIPMENT					AP	1.2	2	7.6											2	8.8
FY 2013 EQUIPMENT							AP	0.8	2	12.3									2	13.1
FY 2014 EQUIPMENT									AP	6.0	4	42.4	1	12.8					5	61.2
FY 2015 EQUIPMENT											AP	4.5	3	38.5					3	43.0
FY 2016 EQUIPMENT												AP	6.0	4	54.6				4	60.6
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	14	0	0	1	1	0	1	0	0	0	1	1	0	0	0	2	0	0	2	1	1	1	1	2	0	0	3	1	0	0	33
Out	12	0	2	0	0	1	1	0	0	0	1	0	0	2	0	0	0	0	2	1	1	0	2	2	0	2	0	0	3	1	33

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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<i>FINANCIAL PLAN( IN MILLIONS)</i>																				
<i>RDT&amp;E</i>																				
<i>PROCUREMENT</i>																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	4	29.4			1	6.7													5	36.1
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	2	8.0	1	4.2	1	3.9	1	3.5											5	19.6
<i>TOTAL PROCUREMENT</i>		37.4		4.2		10.6		3.5												55.7

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

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

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: VAR Months PRODUCTION LEADTIME: 5-6 Months

CONTRACT DATES: FY 2010: FY 2011: APR-11 FY 2012:

DELIVERY DATES: FY 2010: FY 2011: SEP-11 FY 2012:

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	2	8.0	1	4.2	1	3.9													4
FY 2010 EQUIPMENT																				
FY 2011 EQUIPMENT							1	3.5											1	3.5
FY 2012 EQUIPMENT																				
FY 2013 EQUIPMENT																				
FY 2014 EQUIPMENT																				
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	2	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Out	2	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	

Remarks:



**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED LT240 LPD 17 HF ALE	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:  
 Tests RF environment for clear channels. Increased probability of reliable communications by selecting best quality frequency from a pool of pre-programmed frequencies. This is a high priority USMC requirement.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	<u>FINANCIAL PLAN( IN MILLIONS)</u>																				
<u>RDT&amp;E</u>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	5	2.4			3	1.4														8	3.8
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	5	1.3			1	0.5	2	0.5												8	2.3
<u>TOTAL PROCUREMENT</u>		3.7				1.9		0.5													6.1

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

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

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 3 Months      PRODUCTION LEADTIME: 5-7 Months

CONTRACT DATES:	FY 2010:	FY 2011:	MAR-11	FY 2012:	
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DELIVERY DATES:	FY 2010:	FY 2011:	AUG-11	FY 2012:	
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	5	1.3																	5
FY 2010 EQUIPMENT																				
FY 2011 EQUIPMENT					1	0.5	2	0.5											3	1.0
FY 2012 EQUIPMENT																				
FY 2013 EQUIPMENT																				
FY 2014 EQUIPMENT																				
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	5	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Out	5	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8

Remarks:

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED LT240 LPD 17 RADAR FENCES	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:  
LPD 17 Radar Fences will correct an interaction between the SPS-48E radar and the LPD 17 Class Advanced Enclosed Mast/Sensor (AEM/S) System.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	<u>FINANCIAL PLAN( IN MILLIONS)</u>																				
<u>RDT&amp;E</u>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT					3	0.8	3	0.7											6	1.5	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST					3	0.4	3	0.3											6	0.7	
<u>TOTAL PROCUREMENT</u>						1.2		1.0													2.2

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED LPD 17 RADAR FENCES	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 5-7 Months

CONTRACT DATES:	FY 2010:	FY 2011:	MAR-11	FY 2012:	DEC-11
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DELIVERY DATES:	FY 2010:	FY 2011:	AUG-11	FY 2012:	JUL-12
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	PRIOR YEARS																				
FY 2010 EQUIPMENT																					
FY 2011 EQUIPMENT					3	0.4														3	0.4
FY 2012 EQUIPMENT							3	0.3												3	0.3
FY 2013 EQUIPMENT																					
FY 2014 EQUIPMENT																					
FY 2015 EQUIPMENT																					
FY 2016 EQUIPMENT																					
TO COMPLETE																					

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Out	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6

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 CVN Automatic Voltage Regulator is a microprocessor based voltage regulator system for the NIMITZ Class, programmed to replace the legacy analog voltage regulator, which, although operational, lacks the improved reliability and lower maintenance costs of the AVR. It controls the output voltage of a turbine generator (TG), which converts steam into the electricity used for aircraft and combat operations, and reactor cooling.

**DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:**

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<i>FINANCIAL PLAN( IN MILLIONS)</i>																				
<i>RDT&amp;E</i>																				
<i>PROCUREMENT</i>																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	21	8.5	16	7.2	4	2.1	20	8.7											61	26.5
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	7	8.4	10	3.6	4	2.2	16	6.2	4	2.5	20	7.1							61	30.0
<i>TOTAL PROCUREMENT</i>		16.9		10.8		4.3		14.9		2.5		7.1								56.5

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED AUTO VOLTAGE REGULATOR PROGRAM AUTO VOLTAGE REGULATOR	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: NAVAL SHIPYARD

ADMINISTRATIVE LEADTIME: 2 Months PRODUCTION LEADTIME: \*18 Months

CONTRACT DATES:		FY 2010:	JUL-10	FY 2011:	JUN-11	FY 2012:	MAY-12
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DELIVERY DATES:		FY 2010:	FEB-12	FY 2011:	JAN-13	FY 2012:	DEC-13
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	7	8.4	10	3.6	4	1.4													21
FY 2010 EQUIPMENT					AP	0.8	16	5.9											16	6.7
FY 2011 EQUIPMENT							AP	0.3	4	1.4									4	1.7
FY 2012 EQUIPMENT									AP	1.1	20	7.1							20	8.2
FY 2013 EQUIPMENT																				
FY 2014 EQUIPMENT																				
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	7	0	0	4	6	0	4	0	0	0	8	8	0	0	0	4	0	0	8	4	8	0	0	0	0	0	0	0	0	0	0	0	0	61
Out	3	0	4	0	0	4	6	0	0	4	0	0	0	16	0	0	0	0	4	0	8	0	12	0	0	0	0	0	0	0	0	0	61	

\*Remarks: Contracts for AVR procurements are targeted for May of each year to provide maximum cost efficiency for the Government. For the FY12 AVR procurement, the contract option for 20 units is planned for award in May 2012. With a procurement lead time of 18 months, the delivery of the initial 8 units of the FY12 procurement is December 2013. The delivery of follow-on AVR units from the manufacturer (NG P/CS) to the shipyards is staggered every two months. The units must be delivered to the shipyards no later than three months prior to availability start for installation checks, pre-installation preparation, and to meet planning and scheduling requirements. For the FY12 buy:

CVN 75- 8 units- availability start 3/3/14 - in yard due date Dec 13  
 CVN 68- 4 units- availability start 5/15/14 - in yard due date Feb 14  
 CVN 77- 8 units- availability start 8/29/14 - in yard due date Jun 14

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED LT307 CANNED LUBE OIL PUMP	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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**DESCRIPTION/JUSTIFICATION:**  
 The Canned Lube Oil Pump (CLOP) with a two-speed motor will replace both the Standby Lube Oil Pump (SLOP) and Emergency Lube Oil Pump (ELOP) on all CVN-68 Class ships. The ships have repeatedly overhauled SLOPs to replace turbine and reduction gear parts as well as replacing leaking mechanical seals at excessive costs. The ELOPs are also regularly overhauled to replace leaking mechanical seals. In addition, the installed ELOP does not meet all operational requirements for Lube Oil System. The motor and pump are an integral piece on the CLOP which alleviates any alignment issues and a mechanical seal is no longer required.

**DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:**

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<u>FINANCIAL PLAN( IN MILLIONS)</u>																					
<u>RDT&amp;E</u>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT					8	2.8	8	2.9	8	3.0									24	8.7	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST					AP	2.9	8	5.6	8	5.0	8	3.3							24	16.8	
<u>TOTAL PROCUREMENT</u>						5.7		8.5		8.0		3.3									25.5

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED: CANNED LUBE OIL PUMP  
 MODIFICATION TITLE: ITEMS LESS THAN \$5M

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: NAVAL SHIPYARD

ADMINISTRATIVE LEADTIME: 2 Months PRODUCTION LEADTIME: 10 Months

CONTRACT DATES: FY 2010: FY 2011: JAN-11 FY 2012: JAN-12

DELIVERY DATES: FY 2010: FY 2011: NOV-11 FY 2012: NOV-12

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS																			
FY 2010 EQUIPMENT																				
FY 2011 EQUIPMENT					AP	2.9	8	3.9											8	6.8
FY 2012 EQUIPMENT							AP	1.7	8	3.3									8	5.0
FY 2013 EQUIPMENT									AP	1.7	8	3.3							8	5.0
FY 2014 EQUIPMENT																				
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	8	0	0	0	0	8	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	8	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	24

Remarks:



**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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<i>FINANCIAL PLAN( IN MILLIONS)</i>																				
<i>RDT&amp;E</i>																				
<b>PROCUREMENT</b>																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	9	7.7							2	2.1									11	9.8
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	2	3.1	1	2.8	1	1.4			2	5.6	1	2.8	2	4.5	2	4.5			11	24.7
<b><i>TOTAL PROCUREMENT</i></b>		10.8		2.8		1.4				7.7		2.8		4.5		4.5				34.5

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

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

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 3 Months      PRODUCTION LEADTIME: 20 Months

CONTRACT DATES: FY 2010: FY 2011: FY 2012:

DELIVERY DATES: FY 2010: FY 2011: FY 2012:

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	2	3.1	1	2.8	1	1.4			2	5.6	1	2.8	2	4.5					9
FY 2010 EQUIPMENT																				
FY 2011 EQUIPMENT																				
FY 2012 EQUIPMENT																				
FY 2013 EQUIPMENT															2	4.5			2	4.5
FY 2014 EQUIPMENT																				
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	2	1	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	11
Out	2	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0	2	0	0	0	0	11	

Remarks:

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED LT309 SOLID-STATE LIGHTING (SSL) SOLID-STATE LIGHTING (SSL) SYSTEM PROCUREMENT	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:  
Procure/Install solid state lighting fixtures to replace fluorescent and incandescent lighting fixtures installed on Surface combatants and Amphibious Class ships

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN( IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<b>PROCUREMENT</b>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT							6	2.6	7	3.3	8	3.4	8	3.4	8	3.4			37	16.1	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST							6	2.6	7	3.2	8	3.4	8	3.4	8	3.2			37	15.8	
<b><i>TOTAL PROCUREMENT</i></b>								5.2		6.5		6.8		6.8		6.6					31.9

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED SOLID-STATE LIGHTING (SSL) SOLID-STATE LIGHTING (SSL) SYSTEM PROCUREMENT	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: TBD

ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 6 Months

CONTRACT DATES: FY 2010: FY 2011: FY 2012: DEC-11

DELIVERY DATES: FY 2010: FY 2011: FY 2012: JUN-11

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	PRIOR YEARS																				
FY 2010 EQUIPMENT																					
FY 2011 EQUIPMENT																					
FY 2012 EQUIPMENT							6	2.6												6	2.6
FY 2013 EQUIPMENT									7	3.2										7	3.2
FY 2014 EQUIPMENT											8	3.4								8	3.4
FY 2015 EQUIPMENT												8	3.4							8	3.4
FY 2016 EQUIPMENT															8	3.2				8	3.2
TO COMPLETE																					

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	6	0	0	0	7	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	0	0	0	0	0	0	37	
Out	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	7	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	0	0	0	0	0	0	37

Remarks:

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED LT312 T-AGS OCEANOGRAPHIC SURVEY MISSION EQUIPMENT AUV SUPPORT SYSTEM	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:  
The Autonomous Undersea Vehicle (AUV) is an autonomous (unmanned and un-tethered) mobile sensor platform to support multiple sensor payloads for search and survey in coastal waters.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	<u>FINANCIAL PLAN( IN MILLIONS)</u>																				
<u>RDT&amp;E</u>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT							1	1.5												1	1.5
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>										1.5	1.7										3.2

<b>CLASSIFICATION: UNCLASSIFIED</b>															<b>February 2011</b>																																			
<b>EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)</b>																																																		
MODELS OF SYSTEM AFFECTED T-AGS OCEANOGRAPHIC SURVEY MISSION EQUIPMENT AUV SUPPORT SYSTEM															MODIFICATION TITLE: ITEMS LESS THAN \$5M																																			
INSTALLATION INFORMATION:																																																		
METHOD OF IMPLEMENTATION:															AIT																																			
ADMINISTRATIVE LEADTIME:										3 Months					PRODUCTION LEADTIME:										18 Months																									
CONTRACT DATES:															FY 2010:										FY 2011:										FY 2012:					APR-12										
DELIVERY DATES:															FY 2010:										FY 2011:										FY 2012:					AUG-13										
(\$ in Millions)																																																		
COST															Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL																	
															Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$														
PRIOR YEARS																																																		
FY 2010 EQUIPMENT																																																		
FY 2011 EQUIPMENT																																																		
FY 2012 EQUIPMENT																																																		
FY 2013 EQUIPMENT																																																		
FY 2014 EQUIPMENT																																																		
FY 2015 EQUIPMENT																																																		
FY 2016 EQUIPMENT																																																		
TO COMPLETE																																																		
INSTALLATION SCHEDULE																																																		
															FY 2009 & Prior		FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	TC	TOTAL						
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	1	1			
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	0	0	0
Remarks:																																																		

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED LT312 T-AGS OCEANOGRAPHIC SURVEY MISSION EQUIPMENT MOVING VESSEL PROFILER (MVP)	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:  
Moving Vessel Profiler(MVP) is a multi-purpose instrument for aiding in the collection of both shallow and deep water data sets. The MVP's primary function is to allow accurate data collection without the need to stop the ship.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	<u>FINANCIAL PLAN( IN MILLIONS)</u>																				
<u>RDT&amp;E</u>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT							1	0.8												1	0.8
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST										1	0.1									1	0.1
<u>TOTAL PROCUREMENT</u>										0.8	0.1										0.9

CLASSIFICATION: UNCLASSIFIED February 2011

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED: T-AGS OCEANOGRAPHIC SURVEY MISSION EQUIPMENT MOVING VESSEL PROFILER (MVP) MODIFICATION TITLE: ITEMS LESS THAN \$5M

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 18 Months

CONTRACT DATES: FY 2010: FY 2011: FY 2012: JAN-12

DELIVERY DATES: FY 2010: FY 2011: FY 2012: JUL-13

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	PRIOR YEARS																				
FY 2010 EQUIPMENT																					
FY 2011 EQUIPMENT																					
FY 2012 EQUIPMENT									1	0.1										1	0.1
FY 2013 EQUIPMENT																					
FY 2014 EQUIPMENT																					
FY 2015 EQUIPMENT																					
FY 2016 EQUIPMENT																					
TO COMPLETE																					

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

Remarks:



**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED LT312 T-AGS OCEANOGRAPHIC SURVEY MISSION EQUIPMENT SIDE SCAN SONAR (SSS)	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:  
 Side Scan Sonar (SSS) is used for mapping the seabed for a wide variety of purposes, including creation of nautical charts and detection and identification of underwater objects and bathymetric features.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	<i>FINANCIAL PLAN( IN MILLIONS)</i>																				
<i>RDT&amp;E</i>																					
<i>PROCUREMENT</i>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT							1	0.7											1	0.7	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST									1	0.1									1	0.1	
<i>TOTAL PROCUREMENT</i>									0.7	0.1										0.8	

CLASSIFICATION: UNCLASSIFIED February 2011

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED: T-AGS OCEANOGRAPHIC SURVEY MISSION EQUIPMENT SIDE SCAN SONAR (SSS) MODIFICATION TITLE: ITEMS LESS THAN \$5M

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 18 Months

CONTRACT DATES: FY 2010: FY 2011: FY 2012: JAN-12

DELIVERY DATES: FY 2010: FY 2011: FY 2012: JUL-13

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS																			
FY 2010 EQUIPMENT																				
FY 2011 EQUIPMENT																				
FY 2012 EQUIPMENT									1	0.1									1	0.1
FY 2013 EQUIPMENT																				
FY 2014 EQUIPMENT																				
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

Remarks:

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED LT313 AS-39 MODERNIZATION ELECTRICAL UPGRADES	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
--	--------------------	---

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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	<u>FINANCIAL PLAN( IN MILLIONS)</u>																				
<u>RDT&amp;E</u>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	1	2.0			1	1.3	1	0.5												3	3.8
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	1	0.9			DSA	0.9	1	1.3	1	0.5										3	3.6
<u>TOTAL PROCUREMENT</u>		2.9				2.2		1.8		0.5											7.4

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED AS-39 MODERNIZATION ELECTRICAL UPGRADES	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: 4 Months      PRODUCTION LEADTIME: 9 Months

CONTRACT DATES:      FY 2010:      FY 2011: APR-11      FY 2012: JAN-12

DELIVERY DATES:      FY 2010:      FY 2011: JAN-12      FY 2012: OCT-12

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	1	0.9																	1
FY 2010 EQUIPMENT																				
FY 2011 EQUIPMENT					DSA	0.9	1	1.3											1	2.2
FY 2012 EQUIPMENT									1	0.5									1	0.5
FY 2013 EQUIPMENT																				
FY 2014 EQUIPMENT																				
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Out	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3

Remarks:

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED LT313 AS-39 MODERNIZATION MAIN PROPULSION	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
--	--------------------	---

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 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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	<u>FINANCIAL PLAN( IN MILLIONS)</u>																			
<u>RDT&amp;E</u>																				
<u>PROCUREMENT</u>																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	2	6.3		0.3	1	0.9													3	7.5
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	1	3.4	1	4.1	DSA	0.3	1	2.0											3	9.8
<u>TOTAL PROCUREMENT</u>		9.7		4.4		1.2		2.0												17.3

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED AS-39 MODERNIZATION MAIN PROPULSION	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: 6 Months      PRODUCTION LEADTIME: 9 Months

CONTRACT DATES:      FY 2010:      FY 2011: MAY-11      FY 2012:

DELIVERY DATES:      FY 2010:      FY 2011: FEB-12      FY 2012:

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	1	3.4	1	4.1															2
FY 2010 EQUIPMENT																				
FY 2011 EQUIPMENT					DSA	0.3	1	2.0											1	2.3
FY 2012 EQUIPMENT																				
FY 2013 EQUIPMENT																				
FY 2014 EQUIPMENT																				
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Out	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3

Remarks:

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED LT313 AS-39 MODERNIZATION REPLACE TRAVELING CRANES	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 traveling cranes.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	<u>FINANCIAL PLAN( IN MILLIONS)</u>																				
<u>RDT&amp;E</u>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT							1	3.4			1	3.4								2	6.8
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST						DSA	0.4	DSA	0.5	1	1.2	DSA	0.3	1	1.9					2	4.3
<u>TOTAL PROCUREMENT</u>							0.4		3.9		1.2		3.7		1.9						11.1

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED AS-39 MODERNIZATION REPLACE TRAVELING CRANES	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME: 9 Months      PRODUCTION LEADTIME: 8 Months

CONTRACT DATES:      FY 2010:      FY 2011:      FY 2012:      FEB-12

DELIVERY DATES:      FY 2010:      FY 2011:      FY 2012:      OCT-12

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	PRIOR YEARS																				
FY 2010 EQUIPMENT																					
FY 2011 EQUIPMENT																					
FY 2012 EQUIPMENT					DSA	0.4	DSA	0.5	1	1.1										1	2.0
FY 2013 EQUIPMENT																					
FY 2014 EQUIPMENT									DSA	0.1	DSA	0.3	1	1.9						1	2.3
FY 2015 EQUIPMENT																					
FY 2016 EQUIPMENT																					
TO COMPLETE																					

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2

Remarks:



**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED LT313 AS-39 MODERNIZATION SELF CONTAINED AC UNITS	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 to increase air conditioning capacity for operations in tropical climates.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	<u>FINANCIAL PLAN( IN MILLIONS)</u>																				
<u>RDT&amp;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					1	1.4														1	1.4
<u>TOTAL PROCUREMENT</u>						2.4															2.4

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED AS-39 MODERNIZATION SELF CONTAINED AC UNITS	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 3 Months      PRODUCTION LEADTIME: 6 Months

CONTRACT DATES:	FY 2010:	FY 2011:	MAR-11	FY 2012:
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DELIVERY DATES:	FY 2010:	FY 2011:	JUL-11	FY 2012:
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS																			
FY 2010 EQUIPMENT																				
FY 2011 EQUIPMENT					1	1.4													1	1.4
FY 2012 EQUIPMENT																				
FY 2013 EQUIPMENT																				
FY 2014 EQUIPMENT																				
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	1	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	1
Out	0	0	0	0	0	0	0	0	1	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	1

Remarks:

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED LT316 PATROL COASTAL MODERNIZATION ECDIS-N	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:  
Funding provided for Electronic Chart Display Information System-Navy (ECDIS-N) for the Patrol Coastal Ships. This modification installs hardware and software for an approved ECDIS-N for digital nautical charts aboard the PC-1 Class ships per CNO direction to transition from paper to electronic charts.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<u>FINANCIAL PLAN( IN MILLIONS)</u>																					
<u>RDT&amp;E</u>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	2	0.9					1	0.4	2	0.9	2	0.9	2	0.9	6	2.6			15	6.6	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	2	0.7	DSA	0.2			1	0.3	2	0.7	1	0.3	2	0.7	7	4.0			15	6.9	
<u>TOTAL PROCUREMENT</u>		1.6		0.2				0.7		1.6		1.2		1.6		6.6					13.5

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED PATROL COASTAL MODERNIZATION ECDIS-N	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 3 Months      PRODUCTION LEADTIME: 6 Months

CONTRACT DATES:	FY 2010:	FY 2011:	FY 2012:	MAR-12
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DELIVERY DATES:	FY 2010:	FY 2011:	FY 2012:	SEP-12
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	2	0.7																	2
FY 2010 EQUIPMENT																				
FY 2011 EQUIPMENT																				
FY 2012 EQUIPMENT			DSA	0.2			1	0.3											1	0.5
FY 2013 EQUIPMENT									2	0.7									2	0.7
FY 2014 EQUIPMENT											1	0.3	1	0.4					2	0.7
FY 2015 EQUIPMENT												1	0.3	1	0.4				2	0.7
FY 2016 EQUIPMENT															6	3.6			6	3.6
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0	0	7	0	15
Out	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	1	0	0	0	0	2	0	0	7	15	

Remarks:

**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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<i>FINANCIAL PLAN( IN MILLIONS)</i>																				
<i>RDT&amp;E</i>																				
<u>PROCUREMENT</u>																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	5	4.5					1	0.9			1	0.9	1	0.9	3	2.7			11	9.9
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	5	7.0	DSA	0.9			1	1.4			1	1.4	1	1.4	3	4.2			11	16.3
<u>TOTAL PROCUREMENT</u>		11.5		0.9				2.3				2.3		2.3		6.9				26.2

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED PATROL COASTAL MODERNIZATION HVAC UPGRADES	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 6 Months

CONTRACT DATES:	FY 2010:	FY 2011:	FY 2012:	MAR-12
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DELIVERY DATES:	FY 2010:	FY 2011:	FY 2012:	SEP-12
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	5	7.0																	5
FY 2010 EQUIPMENT																				
FY 2011 EQUIPMENT																				
FY 2012 EQUIPMENT			DSA	0.9			1	1.4											1	2.3
FY 2013 EQUIPMENT																				
FY 2014 EQUIPMENT											1	1.4							1	1.4
FY 2015 EQUIPMENT												1	1.4						1	1.4
FY 2016 EQUIPMENT															3	4.2			3	4.2
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	5	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	3	0	11
Out	5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	3	0	11

Remarks:

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED LT316 PATROL COASTAL MODERNIZATION NAVIGATION UPGRADE	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:  
 Funding provided for Navigation Upgrades for the Patrol Coastal Ships. The navigation sensor suite modernization provides essential technology improvements using the mobility mission support equipment, satellite-based position keeping, electronic heading, and automatic helm control.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	<u>FINANCIAL PLAN( IN MILLIONS)</u>																				
<u>RDT&amp;E</u>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	2	0.5					1	0.3	4	1.0	1	0.3	2	0.5	3	0.8			13	3.4	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	2	0.7	DSA	0.1			1	0.3	2	0.7	2	0.7	2	0.7	4	2.5			13	5.7	
<u>TOTAL PROCUREMENT</u>		1.2		0.1				0.6		1.7		1.0		1.2		3.3				9.1	

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED PATROL COASTAL MODERNIZATION NAVIGATION UPGRADE	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 3 Months      PRODUCTION LEADTIME: 6 Months

CONTRACT DATES: FY 2010: FY 2011: FY 2012: MAR-12

DELIVERY DATES: FY 2010: FY 2011: FY 2012: SEP-12

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	2	0.7																	2
FY 2010 EQUIPMENT																				
FY 2011 EQUIPMENT																				
FY 2012 EQUIPMENT			DSA	0.1			1	0.3											1	0.4
FY 2013 EQUIPMENT									2	0.7	2	0.7							4	1.4
FY 2014 EQUIPMENT													1	0.4					1	0.4
FY 2015 EQUIPMENT													1	0.3	1	0.5			2	0.8
FY 2016 EQUIPMENT															3	2.0			3	2.0
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	2	0	0	0	1	0	1	0	1	0	3	0	13
Out	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	2	0	0	1	0	1	0	1	1	3	13

Remarks:



**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED LT316 PATROL COASTAL MODERNIZATION FLIR	TYPE MODIFICATION:	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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DESCRIPTION/JUSTIFICATION:  
Funding provided for the Forward Looking Infrared (FLIR) mod on Patrol Coastal Ship. FLIR Mod replaces an obsolete systems and installs an Electro-Optic system that provides situational awareness with visual imagery along with detailed ship system and target information.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	<u>FINANCIAL PLAN( IN MILLIONS)</u>																				
<u>RDT&amp;E</u>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT							1	0.8					1	0.8	10	7.9			12	9.5	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST									1	0.1					11	0.9			12	1.0	
<u>TOTAL PROCUREMENT</u>								0.8		0.1				0.8		8.8				10.5	

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED PATROL COASTAL MODERNIZATION FLIR	MODIFICATION TITLE: ITEMS LESS THAN \$5M
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 3 Months      PRODUCTION LEADTIME: 6 Months

CONTRACT DATES:	FY 2010:	FY 2011:	FY 2012:	MAR-12
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DELIVERY DATES:	FY 2010:	FY 2011:	FY 2012:	SEP-12
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
	PRIOR YEARS																					
FY 2010 EQUIPMENT																						
FY 2011 EQUIPMENT																						
FY 2012 EQUIPMENT									1	0.1										1	0.1	
FY 2013 EQUIPMENT																						
FY 2014 EQUIPMENT																						
FY 2015 EQUIPMENT																1	0.1				1	0.1
FY 2016 EQUIPMENT																10	0.8				10	0.8
TO COMPLETE																						

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	10	0	12
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	10	12

Remarks:

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 February 2011										
					FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				LATER
					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	
ACTIVE FORCE INVENTORY	8				1					1																							
SCHOOL/OTHER TRAINING																																	
OTHER																																	
<b>TOTAL PHASED REQ</b>	8	8	8	8	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10				
ASSETS ON HAND																																	
DELIVERY																																	
FY 09 & PRIOR	8																																
FY 10				1																													
FY 11								1																									
FY 12																																	
FY 13																																	
FY 14																																	
FY 15																																	
FY 16																																	
TC																																	
<b>TOTAL ASSETS</b>	8	8	8	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10				
QTY OVER(+) OR SHORT(-)				1				1																									
REMARKS:					TOTAL RQMT				INSTALLED ON 10/09				ON HAND AS OF 10/09				FY 09 & PRIOR UNDELIVERED				UNFUNDED												
					APPN OPN (1810)				10				7				0				0												
					APPN				0				0				0				0												
					APPN				0				0				0				0												
	PROC LEADTIME 6 mos								ADMIN 2 mos								INITIAL ORDER mos								REORDER mos								

<b>CLASSIFICATION: UNCLASSIFIED</b>															
Exhibit P-23A, Installation Data								P-1 LINE ITEM NOMENCLATURE ITEMS LESS THAN \$5M						DATE February 2011	
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 2010								FY 2011							
						CVN69	1							CVN77	1
FY 2012								FY 2013							

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>												
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION</b>										<b>DATE</b> February 2011				
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>					<b>P-1 LINE ITEM NOMENCLATURE</b> <b>CHEMICAL WARFARE DETECTORS</b> <b>SUBHEAD NO. 81CW BLI: 0989</b>									
Program Element for Code B Items					Other Related Program Elements									
	Prior Years	ID Code		FY 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total
Quantity	0			0	0	0	0	0	0	0	0	0	0	0
<b>COST</b> ( In Millions)	18.4	A		8.9	7.5	5.5	0.0	5.5	4.4	4.5	4.5	4.6	1.8	60.1
<b>SPARES COST</b> ( In Millions)	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
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>														
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), Improved Point Detection System/Lifecycle Replacement (IPDS/LR), 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 90.														
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 21.														
The IPDS/LR (formerly 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 143.														
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.														

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>										
<b>EXHIBIT P-5 COST ANALYSIS</b>				Weapon System						DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>				ID Code <b>A</b>		P-1 LINE ITEM NOMENCLATURE <b>CHEMICAL WARFARE DETECTORS</b> <b>SUBHEAD NO. 81CW</b>						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010			FY 2011			FY 2012		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
<b>CW001</b>	<u>EQUIPMENT</u> CHEMICAL WARFARE PROGRAM	A	0.006	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	<b>TOTAL EQUIPMENT</b>		<b>0.006</b>			<b>0.000</b>			<b>0.000</b>			<b>0.000</b>
<b>CWINS</b>	<u>INSTALLATION</u> INSTALL OF EQUIPMENT ALL	A	18.415	0	0.000	8.872	0	0.000	7.470	0	0.000	5.508
	<b>TOTAL INSTALLATION</b>		<b>18.415</b>			<b>8.872</b>			<b>7.470</b>			<b>5.508</b>
<b>TOTAL</b>			<b>18.421</b>			<b>8.872</b>			<b>7.470</b>			<b>5.508</b>

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED CW001 CHEMICAL WARFARE PROGRAM IPDS/LR	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 (CBRD) policy and establishes functional responsibilities to ensure the highest level of Fleet readiness and warfighting sustainability in a CBR environment. CBRD Improved Point Detection System/Lifecycle Replacement (IPDS/LR) provides shipboard point detection system for detecting and identifying nerve and blister agent contamination presence. The equipment procurement is funded out of the Joint Service Chemical Biological Defense Program Budget.

**DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:**

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN (IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT			1		12		19		24		31		26		30					143	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST			1	1.0	12	2.4	19	1.8	24	1.7	31	2.3	26	2.2	30	3.0				143	14.4
<i>TOTAL PROCUREMENT</i>				1.0		2.4		1.8		1.7		2.3		2.2		3.0					14.4

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED CHEMICAL WARFARE PROGRAM IPDS/LR	MODIFICATION TITLE: CHEMICAL WARFARE DETECTORS
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME:   PRODUCTION LEADTIME:  

CONTRACT DATES:		FY 2010:		FY 2011:		FY 2012:	
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DELIVERY DATES:		FY 2010:		FY 2011:		FY 2012:	
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
	PRIOR YEARS																					
FY 2010 EQUIPMENT			1	1.0																	1	1.0
FY 2011 EQUIPMENT					12	2.4															12	2.4
FY 2012 EQUIPMENT							19	1.8													19	1.8
FY 2013 EQUIPMENT									24	1.7											24	1.7
FY 2014 EQUIPMENT											31	2.3									31	2.3
FY 2015 EQUIPMENT													26	2.2							26	2.2
FY 2016 EQUIPMENT															30	3.0					30	3.0
TO COMPLETE																						

INSTALLATION SCHEDULE

	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	1	1	3	4	4	4	4	5	6	6	6	6	6	10	10	8	3	6	6	8	6	0	10	10	10	0	143
Out	0	0	0	0	1	1	3	4	4	4	4	5	6	6	6	6	6	10	10	8	3	6	6	8	6	0	10	10	10	0	143

Remarks:



**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 (CBRD) policy and establishes functional responsibilities to ensure the highest level of 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 per the CENTCOM HR (dated Aug 2009) with the addition of detection capability for the 2009/A/H1Ni influenza (see letter for highlighted changes). The equipment procurement is funded out of the Joint Service Chemical Biological Defense Program Budget P-1 Item Nomenclature: Joint Biological Agent Identification and Diagnostic System. Beginning in FY13, system will install with refrigeration unit.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	<i>FINANCIAL PLAN (IN MILLIONS)</i>																				
<i>RDT&amp;E</i>																					
<i>PROCUREMENT</i>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	2		18						1												21
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	2	1.0	18	3.9					1	0.1										21	5.0
<i>TOTAL PROCUREMENT</i>		1.0		3.9						0.1											5.0

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: PRODUCTION LEADTIME:

CONTRACT DATES: FY 2010: FY 2011: FY 2012:

DELIVERY DATES: FY 2010: FY 2011: FY 2012:

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS	2	1.0																	2	1.0
FY 2010 EQUIPMENT			18	3.9															18	3.9
FY 2011 EQUIPMENT																				
FY 2012 EQUIPMENT																				
FY 2013 EQUIPMENT									1	0.1									1	0.1
FY 2014 EQUIPMENT																				
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	2	3	3	6	6	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Out	2	3	3	6	6	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	

Remarks:

**EXHIBIT P-3A INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED CW001 CHEMICAL WARFARE PROGRAM JBAIDS REFRIGERATION UPGRADE	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 (CBRD) policy and establishes functional responsibilities to ensure the highest level of Fleet readiness and warfighting sustainability in a CBR environment. Joint Biological Agent Identification and Diagnostic System (JBAIDS) systems will detect and identify biological organisms of operational concern and other pathogens of clinical significance for confirmatory and prognostic purposes. The CENTCOM HR urgent need (dated Aug 2009) modifies the JBAIDS ORD (dated May 2003) with the addition of detection capability for the 2009/A/H1N1 influenza. This requires the installation of added support equipment, hard-wired freezers. The equipment procurement is funded out of the Joint Service 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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	<u>FINANCIAL PLAN( IN MILLIONS)</u>																				
<u>RDT&amp;E</u>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT																					
EQUIPMENT NONRECURRING					16		4													20	
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST					16	0.9	4	0.2												20	1.1
<u>TOTAL PROCUREMENT</u>						0.9		0.2													1.1

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED CHEMICAL WARFARE PROGRAM JBAIDS REFRIGERATION UPGRADE	MODIFICATION TITLE: CHEMICAL WARFARE DETECTORS
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME:

CONTRACT DATES: FY 2010: FY 2011: FY 2012:

DELIVERY DATES: FY 2010: FY 2011: FY 2012:

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS																					
FY 2010 EQUIPMENT																					
FY 2011 EQUIPMENT					16	0.9														16	0.9
FY 2012 EQUIPMENT							4	0.2												4	0.2
FY 2013 EQUIPMENT																					
FY 2014 EQUIPMENT																					
FY 2015 EQUIPMENT																					
FY 2016 EQUIPMENT																					
TO COMPLETE																					

INSTALLATION SCHEDULE

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				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	4	4	4	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Out	0	0	0	0	0	4	4	4	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20

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 (CBRD) 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 Service 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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN (IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<b>PROCUREMENT</b>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	36		8		11		12		11		7		5							90	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	36	13.6	8	4.0	11	4.2	12	3.5	11	2.6	7	1.7	5	1.3						90	30.9
<b>TOTAL PROCUREMENT</b>		13.6		4.0		4.2		3.5		2.6		1.7		1.3							30.9

CLASSIFICATION: UNCLASSIFIED February 2011

**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: PRODUCTION LEADTIME:

CONTRACT DATES: FY 2010: FY 2011: FY 2012:

DELIVERY DATES: FY 2010: FY 2011: FY 2012:

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	36	13.6																	36
FY 2010 EQUIPMENT			8	4.0															8	4.0
FY 2011 EQUIPMENT					11	4.2													11	4.2
FY 2012 EQUIPMENT							12	3.5											12	3.5
FY 2013 EQUIPMENT									11	2.6									11	2.6
FY 2014 EQUIPMENT											7	1.7							7	1.7
FY 2015 EQUIPMENT													5	1.3					5	1.3
FY 2016 EQUIPMENT																				
TO COMPLETE																				

**INSTALLATION SCHEDULE**

	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	36	1	4	2	1	2	3	2	4	1	1	2	8	2	3	3	3	1	2	2	2	2	1	0	2	0	0	0	0	0	90
Out	36	1	4	2	1	2	3	2	4	1	1	2	8	2	3	3	3	1	2	2	2	2	1	0	2	0	0	0	0	0	90

Remarks:

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>												
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION</b>										<b>DATE</b>			February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY</b>					<b>P-1 LINE ITEM NOMENCLATURE</b>									
<b>OTHER PROCUREMENT, NAVY/BA 1</b>					<b>SUBMARINE LIFE SUPPORT SYSTEM</b>									
					<b>SUBHEAD NO. 815D BLI: 0990</b>									
Program Element for Code B Items					Other Related Program Elements									
	Prior Years	ID Code		FY 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total
Quantity	0	A		0	0	0	0	0	0	0	0	0	0	0
<b>COST</b>														
( In Millions)	89.4	A		14.7	13.0	13.4	0.0	13.4	13.9	8.5	8.8	9.0	20.5	191.2
<b>SPARES COST</b>														
( In Millions)	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
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>														
<b>5D009 - CENTRAL ATMOSPHERE MONITORING SYSTEM (CAMS) IIA</b>														
A replacement atmosphere analyzer to replace the current CAMS I units on 688 Class submarines due to obsolescence.														
<b>5D010 - THE LOW PRESSURE ELECTROLYZER (LPE)</b>														
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.														
<b>5D011- LPE TRAINING UNITS</b>														
Front panel simulators for training of the operation of the shipboard LPE. There will be two training units.														
<b>5D830 - PRODUCTION ENGINEERING</b>														
The review and approval of any production contract technical documentation, or the separate development of this documentation to include, technical manuals, Preventive Maintenance Schedule (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.														

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>										
<b>EXHIBIT P-5 COST ANALYSIS</b>				Weapon System						DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>				ID Code <b>A</b>		P-1 LINE ITEM NOMENCLATURE <b>SUBMARINE LIFE SUPPORT SYSTEM</b> <b>SUBHEAD NO. 815D</b>						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<b><u>EQUIPMENT</u></b>											
<b>5D007</b>	ELECTROLYTIC OXYGEN GENERATOR (EOG) CONTROLS	A	53.361	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
<b>5D009</b>	CAMS IIA	A	7.024	7	0.393	2.749	7	0.393	2.749	8	0.438	3.504
<b>5D010</b>	LOW PRESSURE ELECTROLYZER	A	20.239	4	2.555	10.220	4	2.555	10.220	4	2.397	9.588
<b>5D011</b>	LPE TRAINING UNITS	A	1.036	1	1.140	1.140	0	0.000	0.000	0	0.000	0.000
<b>5D012</b>	AEOG INSTALLATIONS	A	2.708	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
<b>5D830</b>	PRODUCTION ENGINEERING		5.002	0	0.000	0.567	0	0.000	0.047	0	0.000	0.305
<b>WAXXX</b>	ACQUISITION WORKFORCE FUND-2009		0.074	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	<b>TOTAL EQUIPMENT</b>		<b>89.444</b>			<b>14.676</b>			<b>13.016</b>			<b>13.397</b>
<b>TOTAL</b>			<b>89.444</b>			<b>14.676</b>			<b>13.016</b>			<b>13.397</b>



CLASSIFICATION:				UNCLASSIFIED							
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE SUBMARINE LIFE SUPPORT SYSTEM BLIN: 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	
<b>FY 2010</b>											
<b>5D009</b> CAMS IIA	7	0.393	NSWC PHILA, PA		SS/FP	HAMILTON SUNSTRAND CT	MAY-10	JUN-11	YES		
<b>5D010</b> LOW PRESSURE ELECTROLYZER	4	2.555	NSWC PHILA, PA		C/OPT	TREADWELL CORP CT	JAN-10	FEB-11	YES		
<b>5D011</b> LPE TRAINING UNITS	1	1.140	NSWC PHILA, PA		C/OPT	TREADWELL CORP CT	DEC-09	JAN-11	YES		
<b>FY 2011</b>											
<b>5D009</b> CAMS IIA	7	0.393	NSWC PHILA, PA		SS/FP	HAMILTON SUNDSTRAND CT	JAN-11	FEB-12	YES		
<b>5D010</b> LOW PRESSURE ELECTROLYZER	4	2.555	NSWC PHILA, PA		C/OPT	TREADWELL CORP CT	JAN-11	FEB-12	YES		
<b>FY 2012</b>											
<b>5D009</b> CAMS IIA	8	0.438	NSWC PHILA, PA		SS/FP	HAMILTON SUNDSTRAND CT	NOV-11	DEC-12	YES		
<b>5D010</b> LOW PRESSURE ELECTROLYZER	4	2.397	NSWC PHILA, PA		SS/FP	TREADWELL CORP CT	NOV-11	DEC-12	YES		

CLASSIFICATION: UNCLASSIFIED																																				
Exhibit P-23, TIME PHASED REQUIREMENT SCHEDULE CAMS IIA 5D009				APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY / BA 1												P-1 LINE ITEM NOMENCLATURE SUBMARINE LIFE SUPPORT SYSTEM (815D)								DATE February 2011												
				FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				LATER				
				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	1	2	3	4	
ACTIVE FORCE INVENTORY						5	5				3	3	1	3	3	1	3	3	2			3	3	2												
SCHOOL/OTHER TRAINING																																				
OTHER																																				
<b>TOTAL PHASED REQ</b>						5	10	10	10	13	16	17	20	23	24	27	30	32	32	35	38	40	40	40	40	40	40	40	40	40	40	40	40	40		
ASSETS ON HAND																																				
DELIVERY																																				
FY 09 & PRIOR						5	5																													
FY 10						C				3	3	1																								
FY 11									C				3	3	1																					
FY 12												C				3	3	2																		
FY 13																C					3	3	2													
FY 14																																				
FY 15																																				
FY 16																																				
TC																																				
<b>TOTAL ASSETS</b>						5	10	10	10	13	16	17	20	23	24	27	30	32	32	35	38	40	40	40	40	40	40	40	40	40	40	40	40			
QTY OVER(+) OR SHORT(-)																																				
REMARKS:				TOTAL RQMT								INSTALLED ON 10/09				ON HAND AS OF 10/09				FY 09 & PRIOR UNDELIVERED				UNFUNDED												
				APPN								40				0				0				0				0								
				APPN								0				0				0				0				0								
				APPN								0				0				0				0				0								
				PROC LEADTIME 13 mos								ADMIN 3 mos				INITIAL ORDER 13 mos				REORDER 13 mos																

<b>CLASSIFICATION: UNCLASSIFIED</b>															
Exhibit P-23A, Installation Data								P-1 LINE ITEM NOMENCLATURE SUBMARINE LIFE SUPPORT SYSTEM				DATE February 2011			
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 2010								FY 2011							
				SSN 688	5	SSN 688	5					SSN 688	3	SSN 688	3
FY 2012								FY 2013							
SSN 688	1	SSN 688	3	SSN 688	3	SSN 688	1	SSN 688	3	SSN 688	3	SSN 688	2	SSN 688	

<b>CLASSIFICATION: UNCLASSIFIED</b>															
Exhibit P-23A, Installation Data								P-1 LINE ITEM NOMENCLATURE SUBMARINE LIFE SUPPORT SYSTEM				DATE February 2011			
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	
E/I/F	QTY	E/I/F	QTY	E/I/F	QTY	E/I/F	QTY	E/I/F	QTY	E/I/F	QTY	E/I/F	QTY	E/I/F	QTY
FY 2014								FY 2015							
SSN 688	3	SSN 688	3	SSN 688	2										
FY 2016															

CLASSIFICATION: UNCLASSIFIED																																											
Exhibit P-23, TIME PHASED REQUIREMENT SCHEDULE LOW PRESSURE ELECTROLYZER 5D010				APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY / BA 1												P-1 LINE ITEM NOMENCLATURE SUBMARINE LIFE SUPPORT SYSTEM (815D)								DATE February 2011																			
				FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				LATER											
				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	1	2	3	4								
ACTIVE FORCE INVENTORY				4	2	2					2	2				2	2				2	2				2	2				2	1				2	1					9	
SCHOOL/OTHER TRAINING																																											
OTHER																																											
<b>TOTAL PHASED REQ</b>				4	6	8	8	8	8	10	12	12	12	14	16	16	18	20	20	20	22	24	24	24	26	27	27	27	29	30	30	30										39	
ASSETS ON HAND																																											
DELIVERY																																											
FY 09 & PRIOR				4	2	2																																					
FY 10						C				2	2																																
FY 11									C				2	2																													
FY 12												C					2	2																									
FY 13																C								2	2																		
FY 14																								C																			
FY 15																											2	1															
FY 16																																											
TC																																											
<b>TOTAL ASSETS</b>				4	6	8	8	8	8	10	12	12	12	14	16	16	18	20	20	20	22	24	24	24	26	27	27	27	29	30	30	30										39	
QTY OVER(+) OR SHORT(-)				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	0	0	0	0	0	0	
REMARKS:												TOTAL RQMT				INSTALLED ON 10/09				ON HAND AS OF 10/09				FY 09 & PRIOR UNDELIVERED				UNFUNDED															
												39				0				4				0				0															
												0				0				0				0				0															
												0				0				0				0				0															
				PROC LEADTIME 13 mos								ADMIN 3 mos				INITIAL ORDER 13 mos				REORDER 13 mos																							

<b>CLASSIFICATION: UNCLASSIFIED</b>															
Exhibit P-23A, Installation Data								P-1 LINE ITEM NOMENCLATURE SUBMARINE LIFE SUPPORT SYSTEM				DATE February 2011			
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	
E/F	QTY	E/F	QTY	E/F	QTY	E/F	QTY	E/F	QTY	E/F	QTY	E/F	QTY	E/F	QTY
FY 2010								FY 2011							
SSGN	2	SSGN	2							SSGN	2	SSGN	1		
												SSBN	1		
FY 2012								FY 2013							
		SSBN	2	SSBN	2			SSBN	2	SSBN	2				

<b>CLASSIFICATION: UNCLASSIFIED</b>															
Exhibit P-23A, Installation Data								P-1 LINE ITEM NOMENCLATURE SUBMARINE LIFE SUPPORT SYSTEM				DATE February 2011			
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	
E/I/F	QTY	E/I/F	QTY	E/I/F	QTY	E/I/F	QTY	E/I/F	QTY	E/I/F	QTY	E/I/F	QTY	E/I/F	QTY
FY 2014								FY 2015							
SSBN	2	SSBN	2					SSBN	2	SSBN	1				
FY 2016															
SSBN	2	SSBN	1												

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 February 2011													
				FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				LATER					
				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	1	2	3	4		
ACTIVE FORCE INVENTORY				0		1				1																											
SCHOOL/OTHER TRAINING				0																																	
OTHER				0																																	
<b>TOTAL PHASED REQ</b>						1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
ASSETS ON HAND				0																																	
DELIVERY																																					
FY 09 & PRIOR				0	1	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	
FY 10				0	C				1																												
FY 11				0																																	
FY 12				0																																	
FY 13				0																																	
FY 14				0																																	
FY 15				0																																	
FY 16				0																																	
TC				0																																	
<b>TOTAL ASSETS</b>					1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
QTY OVER(+) OR SHORT(-)				0	1	0	0	0	1	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:												TOTAL RQMT				INSTALLED ON 10/09				ON HAND AS OF 10/09				FY 09 & PRIOR UNDELIVERED				UNFUNDED									
												2				0				0				0				0									
												0				0				0				0				0									
												0				0				0				0				0									
				PROC LEADTIME 13 mos								ADMIN 3 mos				INITIAL ORDER 13 mos				REORDER 13 mos																	



<b>CLASSIFICATION: UNCLASSIFIED</b>															
Exhibit P-23A, Installation Data								P-1 LINE ITEM NOMENCLATURE SUBMARINE LIFE SUPPORT SYSTEM				DATE February 2011			
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	
E/F	QTY	E/F	QTY	E/F	QTY	E/F	QTY	E/F	QTY	E/F	QTY	E/F	QTY	E/F	QTY
FY 2010								FY 2011							
TTF KB	1							TF BANGOR	1						
FY 2012								FY 2013							

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>													
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION</b>										<b>DATE</b> February 2011					
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>					<b>P-1 LINE ITEM NOMENCLATURE</b> REACTOR POWER UNITS <b>SUBHEAD NO. BLI: 1010</b>										
Program Element for Code B Items					Other Related Program Elements										
	Prior Years	ID Code		FY 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total	
Quantity															
COST ( In Millions)	0.0			0.0	438.5	436.8	0.0	436.8	286.6	0.0	298.2	0.0	0.0	1,460.1	
SPARES COST ( In Millions)	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>															
<p>The details of this program are classified CONFIDENTIAL and are submitted to Congress annually in the classified budget justification books.</p>															

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>												
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION</b>										<b>DATE</b> February 2011				
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>					<b>P-1 LINE ITEM NOMENCLATURE</b> REACTOR COMPONENTS <b>SUBHEAD NO. BLI: 1020</b>									
Program Element for Code B Items					Other Related Program Elements									
	Prior Years	ID Code		FY 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total
Quantity														
COST ( In Millions)	0.0			261.5	266.5	271.6	0.0	271.6	276.8	285.2	293.4	303.6	Continuing	Continuing
SPARES COST ( In Millions)	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>														
<p>The details of this program are classified CONFIDENTIAL and are submitted to Congress annually in the classified budget justification books.</p>														

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>												
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION</b>										<b>DATE</b> February 2011				
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>					<b>P-1 LINE ITEM NOMENCLATURE</b> DIVING AND SALVAGE EQUIPMENT <b>SUBHEAD NO. 81HY BLI: 1130</b>									
Program Element for Code B Items					Other Related Program Elements									
	Prior Years	ID Code		FY 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total
Quantity	0			0	0	0	0	0	0	0	0	0	0	0
<b>COST</b> ( In Millions)	31.9	A		4.9	10.2	11.2	0.0	11.2	9.0	8.7	8.1	8.8	0.0	92.8
<b>SPARES COST</b> ( In Millions)	3.2	0		0.4	0.7	0.5	0.0	0.5	0.7	0.3	0.4	0.0	0.0	6.2
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>														
<p><b>DIVING</b></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><b>SALVAGE:</b></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>														
<b>HY106 LIGHTWEIGHT DIVE SYSTEM (LWDS):</b>														
<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 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 2.</p>														

<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		<b>DATE</b> February 2011
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<p>DLSS:</p> <ol style="list-style-type: none"> <li>1. Compressor Package - Compressor and prime mover mounted on a common frame; with external fuel tank and gauges.</li> <li>2. Composite Flasks - Racks of composite HP cylinders; with manifolds and interconnecting hoses.</li> <li>3. Volume Tank - Assembly mounted on separate frame; with interconnecting hoses.</li> <li>4. Control Console - Suitcase size with air supply and pneumofathometer control.</li> </ol> <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 20.</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 27.</p> <p>e. Engineering Change Proposals: Required to upgrade the LWDS for 190 fsw capability and 5000 psi service.</p> <p><b>HY107 PORTABLE RECOMPRESSION CHAMBER:</b></p> <ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>c. Engineering Change Proposals</li> <li>d. Environmental Upgrade Package: This item modified existing systems with an environmental system to allow operation in both hot and cold extreme temperature environments.</li> </ol> <p><b>HY123 FLYAWAY DIVE SYSTEM (FADS) III:</b></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 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 2 High Pressure Air Systems, 95 Mixed Gas Systems, and 2 Fads III Support Equipment.</p> <p><b>HY132 STANDARD NAVY DOUBLE LOCK RECOMPRESSION CHAMBER:</b></p> <p>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 30.</p>		

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<p><b>HY179 NAVY EXPERIMENTAL DIVING UNIT:</b>  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><b>HY043 SWISS/DEEP DRONE/ORION/CURVE/MAGNUM UMBILICAL:</b>  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 Inventory Objective I/O is 16 (12 plus 4 spares).</p> <p><b>HY141 U/W SHIP HUSBANDRY INSPECTION SYSTEM:</b>  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><b>HY145 COFFERDAM SYSTEM:</b>  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> <p><b>HY146 PROPELLER REPAIR KIT:</b>  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><b>HY166 ROV TOOL PACKAGE:</b>  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><b>HY190 VIDEO EQUIPMENT:</b>  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><b>HY191 MOBILE DIVING AND SALVAGE UNIT OUTFITTING EQUIPMENT:</b>  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><b>HY195 UNDERWATER RIGGING SUPPORT SYSTEM:</b></p>		

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<p>General and special purpose rigging equipment designed for use in underwater ship repair applications. Required Inventory Objective I/O is 8.</p> <p><b>HY196 UNDERWATER SHIP HUSBANDRY SUBMARINE SUPPORT SYSTEM:</b> 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><b>HY197 UNDERWATER SHIP HUSBANDRY PIERSIDE SUPPORT VAN:</b> Portable milvans and shippable containers outfitted with general and special purpose tools to support various underwater ship husbandry operations. Required Inventory Objective I/O is 10.</p> <p><b>HY176 H.P. AIR COMPRESSOR:</b> 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 300.</p> <p><b>HY192 THERMAL DIVING SUIT:</b> 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 1000.</p> <p><b>HY050 SYNTHETIC LINE:</b> 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><b>HY164 FLYAWAY FADOSS SYSTEM:</b> 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> <p><b>HY169 UNDERWATER SHIP HUSBANDRY POWER TOOLS:</b> 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><b>HY184 SALVAGE SUPPORT SYSTEM:</b> 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><b>HY177 AIR PURIFICATION UNIT</b> 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><b>HY193 SURFACE SUPPLIED DIVING HELMET</b> Replacement helmets for the current MK 21 which have reached the end of their service life. Required Inventory Objective I/O is 250.</p> <p><b>HY116 PORTABLE SUBMERSIBLE PUMPS</b> 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><b>HY194 CONTAMINATED WATER DIVING EQUIPMENT</b> Surface supplied diving equipment (helmets, drysuits, umbilicals, surface exhaust consoles, etc.) specially designed for diving in contaminated water. Required Inventory Objective I/O is 3.</p> <p><b>HY016 DECK CAPSTANS</b></p>		

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<p>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 53.</p> <p><b>HY062 SWISS/DEEP DRONE/ORION/CURV SONAR SYSTEM</b> 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><b>HY131 ROV HANDLING SYSTEMS:</b> 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><b>HY140 ROV CONTROL PACKAGE</b> 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> <p><b>HY147 ROV TELEMETRY SYSTEM</b> 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><b>HY153 TENSIO METER SYSTEMS</b> 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 101.</p> <p><b>HY154 WATER PURIFIERS</b> 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><b>HY155 POWER GENERATORS</b> 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 44 (5 KW) and 58 (30 KW).</p> <p><b>HY156 SALVAGE VANS</b> 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><b>HY158 ROV PROPULSION SYSTEMS</b> 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><b>HY162 TRASH PUMP SYSTEMS</b> 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 101.</p>		



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<p><b>HY198 - UWSH SURFACE SHIP SUPPORT SYSTEMS</b> 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><b>HY199 NAVY DIVE COMPUTER</b> 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 2500.</p> <p><b>HY142 SALVAGE AIR COMPRESSOR</b> Salvage Air Compressors are utilized to provide large quantities of compressed air for restoration of lost buoyancy. Required Inventory Objective I/O is 12.</p> <p><b>HY186 SMART TOW SYSTEMS</b> Systems consists of load cells, accelerometers, fire and flooding alarms, telemetry links and ancillary equipment to provide ship handlers with information critical to safe conduct of open ocean tows. Required Inventory Objective I/O is 12.</p> <p><b>HY200 DEEP DRONE 21</b> Modernization of the Remotely Operated Vehicle (ROV) DEEP DRONE to include power, telemetry, avionics, thrusters, camera systems, and tools. Required Inventory Objective I/O is 1.</p> <p><b>HY201 JETTING PUMPS</b> System is designed to provide a high velocity water stream to move mud, sand, or silt. The system consists of a medium pressured, high flow rate pump that supplies water to specially designed diver operated jetting nozzles via high pressure hoses. The system is used mainly for jetting, but also can be used for firefighting and limited dewatering. Required Inventory Objective I/O is 41.</p> <p><b>HY202 - 300/400 AMP PORTABLE ELECTRIC WELDER</b> System consists of a portable electric powered welder, welding cables, a stinger and ground clamp, welding safety equipment, and a spare parts kit. The system is used for arc welding and oxygen-arc cutting. Required Inventory Objective I/O is 37.</p> <p><b>HY203 - HYDRAULIC U/W TOOL KIT</b> Tool Kit consists of various hydraulic actuated tools operated by a diver to perform various tasks underwater. The kit also contains hydraulic hoses, various fittings, and accessories. Required Inventory Objective I/O is 25.</p> <p><b>HY204 - 400 AMP WELDER -DIESEL</b> System consists of a skid-mounted, portable, diesel powered welding generator, welding cables, a stinger and ground clamp, welding safety equipment, and a spare parts kit. The system is used for arc welding and oxygen-arc cutting. Required Inventory Objective I/O is 37.</p> <p><b>HY205 - LIGHTING KIT SYSTEM</b> System consists of extend able masts, 500-watt halogen floodlights, drop lights, extension cords, spare bulbs, and other miscellaneous items to support general lighting for salvage and oil pollution operations. The Lighting Kit System can use any 110-volt, single phase power source found at the salvage or pollution site. Required Inventory Objective I/O is 44.</p> <p><b>HY206 - KERRIE CABLE U/W CUTTING SYSTEM</b> System is used for underwater cutting. The kit contains a flexible thermic lance, oxygen hoses, an oxygen regulator, various fittings, and a 400-amp safety switch enclosed in a watertight box.</p>		

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<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		DATE February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> <b>DIVING AND SALVAGE EQUIPMENT</b> <b>SUBHEAD NO. 81HY BLI: 1130</b>	
<p>Required Inventory Objective I/O is 25.</p> <p><b>HY207 - EXTREME LIGHTWEIGHT DIVING SYSTEM (XLDS)</b> System consists of the Interspiro DIVIATOR DP-1 Surface Supply System combined with the Interspiro DIVIATOR SCUBA System. This is a very lightweight system that allows the portability of SCUBA and some of the benefits of surface supplied diving. Required Inventory Objective I/O is 50.</p> <p><b>HY208 - IMPROVED TRANSPORTABLE RECOMPRESSION CHAMBER SYSTEM (I-TRCS)</b> This system will be a replacement for the aging TRCS chambers. It will run on 5000 psi air and utilize the new CASRA &amp; COSRA for a gas supplies. This will be a highly portable double lock chamber that will conduct a TT6A with all extensions and will be able to provide surface decompression for fleet divers. Required Inventory Objective I/O is 45.</p> <p><b>HY209 - OXYGEN REGULATING CONSOLE ASSEMBLY (ORCA)</b> System consists of a control panel and hoses that can interface with a surface supplied diving system (FADS III (air) or MK3 LWDS) in order to provide 100% oxygen to up to three (3) divers during decompression at 30 FSW and 20 FSW while in the water. This equipment is required when conducting longer decompression dives utilizing the dive tables contained in REV 6 of the USN Dive manual. Required Inventory Objective I/O is 40.</p> <p><b>HY210 - COMPACT AIR SUPPLY RACK ASSEMBLY (CASRA)</b> This is a smaller version of the Air Supply Rack Assembly (ASRA) that will have 4 cylinders rather than the 9 contained in the ASRA. The rack is anticipated to have 3 primary and 1 secondary cylinders with a simple, unregulated control panel. the rack will provide 5000 psi air to either a FADS III, FADS IV, TRCS or I-TRCS. This is for use in surface supplied diving and hyperbaric treatment operations. Required Inventory Objective I/O is 25.</p> <p><b>HY211 - COMPACT OXYGEN SUPPLY RACK ASSEMBLY (COSRA)</b> This is a smaller version of the OSRA Supply Rack Assembly (OSRA) that will have 4 cylinders rather than the 9 contained in the OSRA. The rack is anticipated to have 3 primary and 1 secondary cylinders with a simple, unregulated control panel. the rack will provide 3000 psi oxygen to either a ORCA, FADS IV, TRCS or I-TRCS. This is for use in surface supplied diving and hyperbaric treatment operations. Required Inventory Objective I/O is 25.</p> <p><b>HY212 - FLY AWAY DIVE SYSTEM (FADS) IV CONTROL CONSOLE ASSEMBLY (CCA)</b> This is a surface supplied diving system that will combine the functionality of the FADS III Air System and ORCA into one control panel. The system will reduce the footprint of the SSDS on dive station and will make decompression utilizing oxygen simpler for the operator. Air can be supplied by either CAOS, ARSA or a new CASRA. Oxygen could be supplied to the console utilizing K-bottles, CAOS, OSRA, or a new COSRA. The system is not anticipated to have a volume tank as it will operator on HP air only. Required Inventory Objective I/O is 20.</p> <p><b>HY213 - HP COMPOSITE FLASK REPLACEMENT</b> The flasks used in the CAOS, ASRA, OSRA, HOSRA, CASRA, and COSRA all require replacement after 15 years. NAVSEA 00C has promised to provided the cylinders to fleet diving commands. Required Inventory Objective I/O is 2500.</p> <p><b>HY214 - CONTAMINATED WATER DIVING (CWD) SURFACE DECONTAMINATION EQUIPMENT</b> This equipment includes Tender protective gear, tents, diver decontamination equipment, capturing and disposal containers to be used during a major contaminated water diving event. Required I/O is 3.</p>		

<b>CLASSIFICATION:</b>			<b>UNCLASSIFIED</b>									
<b>EXHIBIT P-5 COST ANALYSIS</b>			Weapon System							DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>			ID Code		P-1 LINE ITEM NOMENCLATURE <b>DIVING AND SALVAGE EQUIPMENT</b> <b>SUBHEAD NO. 81HY</b>							
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010			FY 2011			FY 2012		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<u><b>EQUIPMENT</b></u>											
HY016	DECK CAPSTANS	A	0.000	0	0.000	0.000	2	0.028	0.056	6	0.029	0.174
HY043	OCEANOGRAPHIC UMBILICAL	A	0.821	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HY062	ROV SONAR SYSTEMS	A	0.186	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HY106	<u>LIGHTWEIGHT DIVE SYSTEMS</u>											
	A. SYSTEMS	A	0.000	0	0.000	0.000	1	0.170	0.170	0	0.000	0.000
	C. PORTABLE AIR DIVE CONSOLES	A	0.854	10	0.041	0.411	9	0.040	0.363	0	0.000	0.000
	D. PORTABLE OXYGEN DIVE CONSOLES	A	0.255	11	0.026	0.286	16	0.027	0.424	0	0.000	0.000
	E. ENGINEERING CHANGE PROPOSALS	A	0.081	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HY107	<u>PORTABLE RECOMPRESSION CHAMBERS</u>											
	C. ENGINEERING CHANGE PROPOSALS	A	0.465	0	0.000	0.000	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	0.313	3	0.060	0.181	5	0.070	0.350	10	0.072	0.720
HY123	<u>FLYAWAY DIVE SYSTEM III</u>											
	G. HP COMPOSITE FLASK REPLACEMENT	A	0.332	70	0.004	0.300	23	0.004	0.101	0	0.000	0.000
	A. HIGH PRESSURE AIR SYSTEMS	A	0.000	2	0.344	0.687	0	0.000	0.000	0	0.000	0.000
	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	5.221	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	F. FADS III SUPPORT EQUIPMENT	A	0.098	1	0.035	0.035	1	0.026	0.026	0	0.000	0.000
HY132	STANDARD NAVY DOUBLE LOCK RECOMPRESSION CHAMBER (SNDL)	A	3.497	0	0.000	0.000	1	1.210	1.210	0	0.000	0.000

<b>CLASSIFICATION:</b>			<b>UNCLASSIFIED</b>									
<b>EXHIBIT P-5 COST ANALYSIS (CONTINUATION)</b>			Weapon System							DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>			ID Code		P-1 LINE ITEM NOMENCLATURE <b>DIVING AND SALVAGE EQUIPMENT</b> <b>SUBHEAD NO. 81HY</b>							
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
HY136	30 KIP FADOSS	A	0.362	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HY142	SALVAGE AIR COMPRESSOR	A	0.000	0	0.000	0.000	2	0.035	0.070	2	0.036	0.072
HY145	COFFERDAM SYSTEM	A	1.380	1	0.229	0.229	1	0.150	0.150	0	0.000	0.000
HY146	PROPELLER REPAIR KIT	A	0.718	0	0.000	0.000	1	0.124	0.124	0	0.000	0.000
HY147	ROV TELEMETRY SYSTEM	A	0.000	0	0.000	0.000	0	0.000	0.000	1	0.400	0.400
HY153	TENSIOMETERS	A	0.048	0	0.000	0.000	4	0.014	0.056	6	0.015	0.090
HY154	WATER PURIFIERS	A	0.000	2	0.070	0.140	0	0.000	0.000	0	0.000	0.000
HY155	POWER GENERATORS	A	0.025	4	0.012	0.046	5	0.007	0.035	5	0.008	0.040
HY156	SALVAGE VANS	A	0.000	0	0.000	0.000	2	0.122	0.244	1	0.125	0.125
HY158	ROV PROPULSION SYSTEMS	A	0.000	0	0.000	0.000	0	0.000	0.000	1	0.600	0.600
HY164	FLYAWAY FADOSS SYSTEM	A	0.534	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
HY169	UWSH POWER TOOLS	A	0.145	0	0.000	0.000	0	0.000	0.000	1	0.135	0.135
HY176	H.P. AIR COMPRESSORS	A	0.093	3	0.048	0.144	1	0.049	0.049	3	0.065	0.195

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					DIVING AND SALVAGE EQUIPMENT							
					SUBHEAD NO. 81HY							
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
HY177	AIR PURIFICATION UNITS	A	0.476	5	0.014	0.070	0	0.000	0.000	5	0.032	0.160
HY179	<u>NAVY EXPERIMENTAL DIVING UNIT</u> NAVY EXPERIMENTAL DIVING UNIT	A	2.654	1	0.348	0.348	1	0.354	0.354	1	0.448	0.448
HY184	SALVAGE SUPPORT SYSTEMS	A	0.862	9	0.051	0.456	0	0.000	0.000	2	0.143	0.285
HY186	SMART TOW SYSTEMS	A	0.000	0	0.000	0.000	0	0.000	0.000	2	0.053	0.106
HY190	VIDEO EQUIPMENT	A	0.257	0	0.000	0.000	0	0.000	0.000	2	0.060	0.120
HY191	MOBILE DIVING & SALVAGE UNIT OUTFITTING EQUIP	A	9.503	0	0.000	0.000	1	1.364	1.364	1	2.994	2.994
HY192	THERMAL DIVING SUITS	A	0.000	28	0.002	0.058	9	0.002	0.019	19	0.005	0.088
HY193	SURFACE SUPPLIED DIVING HELMET	A	0.306	20	0.006	0.110	30	0.006	0.191	30	0.007	0.195
HY194	CONTAMINATED WATER DIVING EQUIPMENT	A	0.344	2	0.051	0.102	0	0.000	0.000	0	0.000	0.000
HY195	UNDERWATER RIGGING SUPPORT SYSTEM	A	0.601	0	0.000	0.000	1	0.419	0.419	0	0.000	0.000
HY196	UWSH SUBMARINE SUPPORT SYSTEM	A	1.160	1	0.436	0.436	2	0.384	0.768	1	0.600	0.600
HY197	UWSH PIERSIDE SUPPORT VANS	A	0.000	3	0.192	0.577	0	0.000	0.000	1	0.192	0.192
HY198	UWSH SURFACE SHIP SUPPORT SYSTEMS	A	0.000	0	0.000	0.000	0	0.000	0.000	2	0.361	0.722
HY199	NAVY DIVE COMPUTER	A	0.051	292	0.001	0.292	280	0.001	0.297	280	0.001	0.292

<b>CLASSIFICATION:</b>			<b>UNCLASSIFIED</b>									
<b>EXHIBIT P-5 COST ANALYSIS (CONTINUATION)</b>			Weapon System							DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>			ID Code		P-1 LINE ITEM NOMENCLATURE <b>DIVING AND SALVAGE EQUIPMENT</b> <b>SUBHEAD NO. 81HY</b>							
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
HY200	DEEP DRONE 21	A	0.000	0	0.000	0.000	1	3.089	3.089	0	0.000	0.000
HY201	JETTING PUMPS	A	0.000	0	0.000	0.000	3	0.046	0.139	5	0.057	0.286
HY202	300/400 AMP PORTABLE ELECTRIC WELDER	A	0.000	0	0.000	0.000	10	0.008	0.081	19	0.005	0.095
HY203	HYDRAULIC U/W TOOL KIT	A	0.000	0	0.000	0.000	2	0.039	0.078	4	0.040	0.160
HY204	400 AMP WELDER - DIESEL	A	0.000	0	0.000	0.000	0	0.000	0.000	6	0.012	0.072
HY207	EXTREME LIGHTWEIGHT DIVING SYSTEM (XLDS)	A	0.000	0	0.000	0.000	0	0.000	0.000	1	0.040	0.040
HY209	OXYGEN REGULATING CONSOLE ASSEMBLY (ORCA)	A	0.000	0	0.000	0.000	0	0.000	0.000	1	0.036	0.036
HY210	COMPACT AIR SUPPLY RACK ASSEMBLY (CASRA)	A	0.000	0	0.000	0.000	0	0.000	0.000	2	0.180	0.360
HY211	COMPACT OXYGEN SUPPLY RACK ASSEMBLY (COSRA)	A	0.000	0	0.000	0.000	0	0.000	0.000	2	0.180	0.360
HY212	FLY AWAY DIVE SYSTEM (FADS) IV CONTROL CONSOLE ASSEMBLY (CCA)	A	0.000	0	0.000	0.000	0	0.000	0.000	2	0.112	0.224
HY213	HP COMPOSITE FLASK REPLACEMENT	A	0.000	0	0.000	0.000	0	0.000	0.000	72	0.005	0.322
HY214	CONTAMINATED WATER DIVING (CWD) SURFACE DECONTAMINATION EQUIPMENT	A	0.000	0	0.000	0.000	0	0.000	0.000	1	0.536	0.536
	<b>TOTAL EQUIPMENT</b>		<b>31.941</b>			<b>4.908</b>			<b>10.227</b>			<b>11.244</b>

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>										
<b>EXHIBIT P-5 COST ANALYSIS (CONTINUATION)</b>				Weapon System						DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>				ID Code		P-1 LINE ITEM NOMENCLATURE <b>DIVING AND SALVAGE EQUIPMENT</b> <b>SUBHEAD NO. 81HY</b>						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010			FY 2011			FY 2012		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
<b>TOTAL</b>			<b>31.941</b>			<b>4.908</b>			<b>10.227</b>			<b>11.244</b>

CLASSIFICATION:					UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE		
APPROPRIATION/BUDGET ACTIVITY					P-1 LINE ITEM NOMENCLATURE				SUBHEAD		
OTHER PROCUREMENT, NAVY/BA 1					DIVING AND SALVAGE EQUIPMENT				81HY		
BLIN: 1130											
COST ELEMENT	Quantity	UNIT	LOCATION	RFP ISSUE	CONTRACT	CONTRACTOR	AWARD	DATE OF	SPEC	DATE	
FISCAL YEAR		COST	OF PCO	DATE	METHOD	AND LOCATION	DATE	FIRST	AVAIL	REVISIONS	
					& TYPE			DELIVERY	NOW	AVAILABLE	
<b>FY 2010</b>											
<b>HY116</b>											
PORTABLE SUBMERSIBLE PUMPS	3	0.060	WASHINGTON DC	N/A	C/CPFF	GLOBAL PCCI, IRVINE CA	APR-10	APR-11	YES		
<b>HY154</b>											
WATER PURIFIERS	2	0.070	WASHINGTON DC	N/A	C/CPFF	GLOBAL PCCI, IRVINE CA	APR-10	APR-11	YES		
<b>HY155</b>											
POWER GENERATORS	4	0.012	WASHINGTON DC	N/A	C/CPFF	GLOBAL PCCI, IRVINE CA	APR-10	APR-11	YES		
<b>HY176</b>											
H.P. AIR COMPRESSORS	3	0.048	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-10	APR-11			
<b>HY177</b>											
AIR PURIFICATION UNITS	5	0.014	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-10	APR-11			
<b>HY192</b>											
THERMAL DIVING SUITS	28	0.002	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-10	APR-11			
<b>HY193</b>											
SURFACE SUPPLIED DIVING HELMET	20	0.006	WASHINGTON DC	N/A	C/CPFF	GLOBAL PCCI, IRVINE CA	JUL-10	APR-11	YES		
<b>HY194</b>											
CONTAMINATED WATER DIVING EQUIPMENT	2	0.051	WASHINGTON DC	N/A	C/CPAF	GLOBAL PCCI, IRVINE CA	MAR-10	APR-11	YES		
<b>HY196</b>											
UWSH SUBMARINE SUPPORT SYSTEM	1	0.436	WASHINGTON DC	N/A	C/CPAF	GLOBAL PCCI, IRVINE CA	APR-10	APR-11	YES		
<b>HY197</b>											
UWSH PIERSIDE SUPPORT VANS	3	0.192	WASHINGTON DC	N/A	C/CPFF	GLOBAL PCCI, IRVINE CA	MAR-10	APR-11			
<b>HY106 LIGHTWEIGHT DIVE SYSTEMS</b>											
C. PORTABLE AIR DIVE CONSOLES	10	0.041	WASHINGTON DC	N/A	C/CPAF	GLOBAL PCCI, IRVINE CA	JUL-10	APR-11			
D. PORTABLE OXYGEN DIVE CONSOLES	11	0.026	WASHINGTON DC	N/A	C/CPAF	GLOBAL PCCI, IRVINE CA	JUL-10	APR-11			
<b>HY123 FLYAWAY DIVE SYSTEM III</b>											
A. HIGH PRESSURE AIR SYSTEMS	2	0.344	WASHINGTON DC	N/A	C/CPAF	PHOENIX INTL, LARGO MD	FEB-10	APR-11	YES		
F. FADS III SUPPORT EQUIPMENT	1	0.035	WASHINGTON DC	N/A	C/CPAF	PHOENIX INTL, LARGO MD	FEB-10	APR-11	YES		
G. HP COMPOSITE FLASK REPLACEMENT	70	0.004	WASHINGTON DC	N/A	C/CPAF	PHOENIX INTL, LARGO MD	FEB-10	APR-11	YES		



CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				DATE February 2011	
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
<b>HY145</b> COFFERDAM SYSTEM	1	0.229	WASHINGTON DC	N/A	C/CPAF	GLOBAL PCCI, IRVINE CA	MAR-10	APR-11	YES	
<b>HY179 NAVY EXPERIMENTAL DIVING UNIT</b> NAVY EXPERIMENTAL DIVING UNIT	1	0.348	WASHINGTON DC	N/A	C/CPAF	NEDU PANAMA CITY, FL	APR-10	APR-11		
<b>HY184</b> SALVAGE SUPPORT SYSTEMS	9	0.051	WASHINGTON DC	N/A	C/CPFF	GLOBAL PCCI, IRVINE CA	MAR-10	APR-11		
<b>HY199</b> NAVY DIVE COMPUTER	292	0.001	WASHINGTON DC	N/A	C/CPFF	GLOBAL PCCI, IRVINE CA	JUL-10	APR-11		
<b>FY 2011</b>										
<b>HY016</b> DECK CAPSTANS	2	0.028	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-11	APR-12		
<b>HY116</b> PORTABLE SUBMERSIBLE PUMPS	5	0.070	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-11	APR-12		
<b>HY142</b> SALVAGE AIR COMPRESSOR	2	0.035	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-11	APR-12		
<b>HY153</b> TENSIO METERS	4	0.014	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-11	APR-12		
<b>HY155</b> POWER GENERATORS	5	0.007	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-11	APR-12		
<b>HY156</b> SALVAGE VANS	2	0.122	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-11	APR-12		
<b>HY176</b> H.P. AIR COMPRESSORS	1	0.049	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-11	APR-12		
<b>HY192</b> THERMAL DIVING SUITS	9	0.002	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-11	APR-12		
<b>HY193</b> SURFACE SUPPLIED DIVING HELMET	30	0.006	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-11	APR-12		
<b>HY195</b>										

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				DATE February 2011	
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
UNDERWATER RIGGING SUPPORT SYSTEM HY196	1	0.419	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-11	APR-12		
UWSH SUBMARINE SUPPORT SYSTEM HY200	2	0.384	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-11	APR-12		
DEEP DRONE 21 HY201	1	3.089	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-11	APR-12		
JETTING PUMPS HY202	3	0.046	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-11	APR-12		
300/400 AMP PORTABLE ELECTRIC WELDER HY203	10	0.008	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-11	APR-12		
HYDRAULIC U/W TOOL KIT HY106 LIGHTWEIGHT DIVE SYSTEMS	2	0.039	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-11	APR-12		
A. SYSTEMS	1	0.170	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-11	APR-12		
C. PORTABLE AIR DIVE CONSOLES	9	0.040	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-11	APR-12		
D. PORTABLE OXYGEN DIVE CONSOLES HY123 FLYAWAY DIVE SYSTEM III	16	0.027	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-11	APR-12		
F. FADS III SUPPORT EQUIPMENT	1	0.026	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-11	APR-12		
G. HP COMPOSITE FLASK REPLACEMENT HY132	23	0.004	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-11	APR-12		
STANDARD NAVY DOUBLE LOCK RECOMPRESSION CHAMBER (SNDL) HY145	1	1.210	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-11	APR-12		
COFFERDAM SYSTEM HY146	1	0.150	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-11	APR-12		
PROPELLER REPAIR KIT HY179 NAVY EXPERIMENTAL DIVING UNIT	1	0.124	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-11	APR-12		
NAVY EXPERIMENTAL DIVING UNIT HY191	1	0.354	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-11	APR-12		
MOBILE DIVING & SALVAGE UNIT OUTFITTING EQUIP HY199	1	1.364	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-11	APR-12		

<b>CLASSIFICATION:</b>				<b>UNCLASSIFIED</b>						
<b>Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)</b>					Weapon System				<b>DATE</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>					<b>P-1 LINE ITEM NOMENCLATURE</b> <b>DIVING AND SALVAGE EQUIPMENT</b> <b>BLIN: 1130</b>				<b>SUBHEAD</b> <b>81HY</b>	
<b>COST ELEMENT</b> <b>FISCAL YEAR</b>	<b>Quantity</b>	<b>UNIT</b> <b>COST</b>	<b>LOCATION</b> <b>OF PCO</b>	<b>RFP ISSUE</b> <b>DATE</b>	<b>CONTRACT</b> <b>METHOD</b> <b>&amp; TYPE</b>	<b>CONTRACTOR</b> <b>AND LOCATION</b>	<b>AWARD</b> <b>DATE</b>	<b>DATE OF</b> <b>FIRST</b> <b>DELIVERY</b>	<b>SPEC</b> <b>AVAIL</b> <b>NOW</b>	<b>DATE</b> <b>REVISIONS</b> <b>AVAILABLE</b>
NAVY DIVE COMPUTER	280	0.001	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-11	APR-12		
<b>FY 2012</b>										
<b>HY016</b> DECK CAPSTANS	6	0.029	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
<b>HY116</b> PORTABLE SUBMERSIBLE PUMPS	10	0.072	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
<b>HY142</b> SALVAGE AIR COMPRESSOR	2	0.036	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
<b>HY147</b> ROV TELEMETRY SYSTEM	1	0.400	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
<b>HY153</b> TENSIO METERS	6	0.015	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
<b>HY155</b> POWER GENERATORS	5	0.008	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
<b>HY156</b> SALVAGE VANS	1	0.125	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
<b>HY158</b> ROV PROPULSION SYSTEMS	1	0.600	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
<b>HY176</b> H.P. AIR COMPRESSORS	3	0.065	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
<b>HY177</b> AIR PURIFICATION UNITS	5	0.032	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
<b>HY186</b> SMART TOW SYSTEMS	2	0.053	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
<b>HY190</b> VIDEO EQUIPMENT	2	0.060	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
<b>HY192</b> THERMAL DIVING SUITS	19	0.005	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				DATE February 2011	
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
<b>HY193</b> SURFACE SUPPLIED DIVING HELMET	30	0.007	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
<b>HY196</b> UWSH SUBMARINE SUPPORT SYSTEM	1	0.600	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
<b>HY197</b> UWSH PIERSIDE SUPPORT VANS	1	0.192	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
<b>HY198</b> UWSH SURFACE SHIP SUPPORT SYSTEMS	2	0.361	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
<b>HY201</b> JETTING PUMPS	5	0.057	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
<b>HY202</b> 300/400 AMP PORTABLE ELECTRIC WELDER	19	0.005	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
<b>HY203</b> HYDRAULIC U/W TOOL KIT	4	0.040	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
<b>HY204</b> 400 AMP WELDER - DIESEL	6	0.012	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
<b>HY207</b> EXTREME LIGHTWEIGHT DIVING SYSTEM (XLDS)	1	0.040	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
<b>HY209</b> OXYGEN REGULATING CONSOLE ASSEMBLY (ORCA)	1	0.036	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
<b>HY210</b> COMPACT AIR SUPPLY RACK ASSEMBLY (CASRA)	2	0.180	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
<b>HY211</b> COMPACT OXYGEN SUPPLY RACK ASSEMBLY (COSRA)	2	0.180	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
<b>HY212</b> FLY AWAY DIVE SYSTEM (FADS) IV CONTROL CONSOLE ASSEMBLY (CCA)	2	0.112	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
<b>HY213</b> HP COMPOSITE FLASK REPLACEMENT	72	0.005	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
<b>HY214</b>										

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				DATE February 2011	
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
CONTAMINATED WATER DIVING (CWD) SURFACE DECONTAMINATION EQUIPMENT HY169	1	0.536	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
UWSH POWER TOOLS HY179 NAVY EXPERIMENTAL DIVING UNIT	1	0.135	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
NAVY EXPERIMENTAL DIVING UNIT HY184	1	0.448	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
SALVAGE SUPPORT SYSTEMS HY191	2	0.143	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
MOBILE DIVING & SALVAGE UNIT OUTFITTING EQUIP HY199	1	2.994	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		
NAVY DIVE COMPUTER	280	0.001	WASHINGTON DC	N/A	C/CPAF	UNKNOWN	APR-12	APR-13		

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>												
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION</b>											<b>DATE</b> February 2011			
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>						<b>P-1 LINE ITEM NOMENCLATURE</b> STANDARD BOATS <b>SUBHEAD NO. 11H0 BLI: 1210</b>								
Program Element for Code B Items						Other Related Program Elements								
	Prior Years	ID Code		FY 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total
Quantity	298			94	91	71	0	71	64	57	62	62	CONT	CONT
COST ( In Millions)	100.1			58.8	58.4	39.8	13.7	53.5	33.8	24.9	27.3	29.6	CONT	CONT
SPARES COST ( In Millions)	0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	CONT	CONT
Quantity	0			2	21	2	3	5	2	2	2	2	CONT	CONT
RESERVE COMPONENT (In Millions)	0.0			1.1	30.8	1.1	13.7	14.8	1.1	1.1	1.1	1.1	CONT	CONT
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>														
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 are 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.														
<b>H0028 7M (24FT) RIGID INFLATABLE BOAT (RIB)</b>														
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.														
<b>H0035 EOD SUPPORT CRAFT (RIB)</b>														
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.														
<b>H0039 11M (36FT) RIGID INFLATABLE BOAT (RIB)</b>														
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. Service life is 12 years.														
<b>H0040 FORCE PROTECTION BOAT (SMALL)</b>														
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 environment (sea states/climatology) does not present a significant challenge. Service life is 7 years.														
<b>H0041 FORCE PROTECTION BOAT (MEDIUM)</b>														
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.														

<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> STANDARD BOATS <b>SUBHEAD NO. 11H0 BLI: 1210</b>	
<p><b>H0042 FORCE PROTECTION BOAT (LARGE)</b> 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><b>H0048 NSW LONG RANGE SUPPORT CRAFT</b> 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. Service life is 10 years.</p> <p><b>H0049 RIVERINE MULTI-MISSION CRAFT</b> Provides the Navy the ability to conduct shaping and stability (Phase 0) operations, maritime security and additional tasks related to the Overseas Contingency Operations (OCO) on inland waterways. Service life is 8 years.</p> <p><b>H0050 NSW SHORT RANGE SUPPORT CRAFT</b> Used in support of combat swimmer-diver training evolutions and the Special Warfare Combatant Craft (SWCC) Basic Crewman Training curriculum. Service life is 10 years.</p> <p><b>H0052 WORKBOAT (MEDIUM)</b> Diesel inboard-engine or gasoline outboard-engine powered aluminum or steel boats up to 11 meters (36 ft) in length used primarily for multi-purpose workboat applications at Naval activities and adjacent ports and waterways duties, such as towing and pusher boat capabilities, cargo carrying, harbor cleaning, firefighting, diver support, pusher tugboat and security barrier tending. Habitability, maneuverability and bollard pull power are commensurate with operational requirements associated with barrier and moderately sized vessel assist (i.e., barges, boats, etc.). The WB(M) is capable of performing operations in areas where the operating environment (sea states/climatology) are not significant enough to necessitate the larger boat, but includes the capabilities necessary to meet operational requirements. A Commercial Off The Shelf (COTS) boat built to recognized commercial standards can accomplish specific operational requirements for the mission. Service life is 20 years.</p> <p><b>H0055 NSW RIVERINE ASSAULT BOAT (RAB)</b> NSW Riverine Assault Boat (RAB) - The NSW Riverine Assault Boat is a high speed boat with ample weapons and equipment capacity whose primary mission is insertion/extraction of SEALs into a low-to-medium threat environment in a riverine area. Secondary missions include providing fire support, serving as a staging area and reconnaissance platform, acting as a waterborne guard post, and operating as an interdiction or Search and Rescue (SAR) craft. Service life is 8 years.</p> <p><b>H0056 WORKBOAT (LARGE)</b> Twin Diesel inboard-engine or gasoline outboard-engine powered aluminum or steel boats over 11 meters (36 ft) in length used multi-purpose workboat applications at Naval activities and adjacent ports and waterways. Duties include towing and pusher tugboat capabilities, diver support, ship's husbandry, cargo carrier, personnel ferry, harbor cleaning, firefighting and boom type barrier tending. Habitability, maneuverability and bollard pull power are commensurate with operational requirements. The WB(L) is needed for operations in areas where the operating environment (including sea states/climatology) are significant enough to necessitate the larger boat and include the capabilities necessary to meet operational requirements associated with large sized vessel assist (i.e., ships). 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><b>H0057 CNIC FORCE PROTECTION BOAT (SMALL)</b> Gasoline twin outboard engine aluminum boats up to 9 meters (30 ft) in length with a narrow beam to aid in transport. Used primarily for fleet security, force protection/anti-terrorism, maritime interdiction and law enforcement operations at Naval activities and adjacent ports and waterways. The boats are provided with shouldering capabilities and foundations suitable for weapons. The</p>		

<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> STANDARD BOATS <b>SUBHEAD NO. 11H0 BLI: 1210</b>	
<p>boats operate primarily at Naval activities in sheltered harbors and waterways. A Commercial Off The Shelf (COTS) boat built to recognized commercial standards can accomplish specific operational requirements for the mission. That is, the operational performance (speed/power/stability/ergonomic) requirements for the Force Protection Boat (small) are not sufficiently extreme or rigorous enough to warrant custom design and/or fabrication methods or materials. Service life is 7 years.</p> <p><b>H0058 FORCE PROTECTION COASTAL (FP-C)</b> Naval Expeditional Combat Command (NECC) Riverine Forces require a tactically sized, highly reliable, combatant craft capable of operating from land or maritime platforms. The mission of the FP-C is to provide the operational commander a 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. Mission profiles may include: patrol of Maritime Pre-positioning Force (MPF) and Joint Logistics Over the Shore (JLOTS) anchorage and marshalling areas, offshore economic infrastructure Gulf Oil Platforms (GOPLATs), high-value asset (HVA) shipping escort, overwatch of Maritime Interdiction Operations (MIO) / Vessel Board, Search and Seizure (VBSS) operations, Theater Security Cooperation (TSC), and Security Force Assistance (SFA). Service life is 7-10 years.</p> <p><b>H00S3 SMALL ESCORT VESSEL (33')</b> 33' weaponized vessel capable of 55 knots and operations in 8' seas. Armed with M240 machine gun.</p> <p><b>H0830 PRODUCTION ENGINEERING</b> 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> <p><b>H0CA5 DIVE BOATS</b> 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&amp;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 vinyl-ester resin, walk thru cabin, seating for coxswain &amp; navigator, bench seating for four passengers, polyurethane D-shaped foam collar, bitts forward &amp; aft, engine guard rail, dive door (stbd), certified hoisting fittings &amp; hoisting sling. Twin Honda 135 hp 4 cycle outboard engines (25 shaft length, counter rotating, model BF 135), engine break-in &amp; 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><b>H0CA6 RANGE SUPPORT CRAFT</b> 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><b>H0CAB FORCE PROTECTION BOAT (SMALL)</b></p>		



<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> STANDARD BOATS <b>SUBHEAD NO. 11H0 BLI: 1210</b>	
<p>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 environment (sea states/climatology) does not present a significant challenge. Service life is 7 years.</p> <p><b>H0G86 OCO - SUPPLEMENTAL (FY11)</b> Current existing systems require replacements for boats due to excessive wear and tear. The boats are being maintained; however, they are not designed for the operational tempo (OPTEMPO) and harsh operating conditions in which they will be employed. The Force Protection Coastal (FPC) boats will provide capability called for in Visit, Board, Search and Seizure (VBSS) overwatch Urgent Operational Needs Statement (UONS) that cannot be met with existing boats. The Riverine Patrol boats, 7m EOD RIBS, and Force Protection Large are for boats already in theater.</p> <p><b>H0G86 OCO - SUPPLEMENTAL (FY12)</b> Current existing systems require replacements for boats due to excessive wear and tear. The boats are being maintained; however, they are not designed for the operational tempo (OPTEMPO) and harsh operating conditions in which they will be employed. The Force Protection Coastal (FPC) boats will provide capability called for in Visit, Board, Search and Seizure (VBSS) overwatch Urgent Operational Needs Statement (UONS) that cannot be met with existing boats.</p>		

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>										
<b>EXHIBIT P-5 COST ANALYSIS</b>				Weapon System						DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>				ID Code		P-1 LINE ITEM NOMENCLATURE <b>STANDARD BOATS SUBHEAD NO. 11H0</b>						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<u><b>EQUIPMENT</b></u>											
<b>H0028</b>	7M RIGID INFLATABLE BOAT (RIB)		9.234	21	0.170	3.570	20	0.175	3.500	23	0.180	4.140
<b>H0035</b>	EOD SUPPORT CRAFT		3.150	9	0.228	2.052	6	0.234	1.404	10	0.237	2.367
<b>H0039</b>	11M (36 FT) RIGID INFLATABLE BOAT (RIB)		4.885	3	0.560	1.680	3	0.570	1.710	4	0.580	2.320
<b>H0040</b>	FORCE PROTECTION (SMALL)		7.935	5	0.231	1.155	9	0.237	2.133	0	0.000	0.000
<b>H0040</b>	RESERVE (NAVAL COASTAL WARFARE)		0.450	1	0.231	0.231	1	0.237	0.237	1	0.243	0.243
<b>H0041</b>	FORCE PROTECTION (MEDIUM)		5.044	10	0.260	2.600	10	0.265	2.650	11	0.415	4.565
<b>H0042</b>	FORCE PROTECTION (LARGE)		26.384	8	0.696	5.568	8	0.710	5.680	1	0.724	0.724
<b>H0042</b>	RESERVE (NAVAL COASTAL WARFARE)		0.000	1	0.696	0.696	1	0.710	0.710	1	0.724	0.724
<b>H0048</b>	NSW LONG RANGE SUPPORT CRAFT		3.248	2	0.292	0.584	0	0.000	0.000	2	0.308	0.616
<b>H0049</b>	RIVERINE MULTI-MISSION CRAFT		28.947	2	1.202	2.404	5	1.238	6.190	6	1.275	7.650
<b>H0050</b>	NSW SHORT RANGE SUPPORT CRAFT		3.612	3	0.292	0.876	5	0.300	1.500	3	0.307	0.922
<b>H0052</b>	WORKBOAT (MEDIUM)		0.534	4	0.545	2.180	2	0.557	1.114	2	0.813	1.626
<b>H0056</b>	WORKBOAT (LARGE)		0.000	0	0.000	0.000	0	0.000	0.000	2	1.441	2.882
<b>H0057</b>	CNIC FORCE PROTECTION BOAT (SMALL)		0.000	0	0.000	0.000	0	0.000	0.000	3	0.359	1.077

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>										
<b>EXHIBIT P-5 COST ANALYSIS (CONTINUATION)</b>						Weapon System					DATE February 2011	
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>						ID Code		P-1 LINE ITEM NOMENCLATURE <b>STANDARD BOATS SUBHEAD NO. 11H0</b>				
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010			FY 2011			FY 2012		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
<b>H0058</b>	FORCE PROTECTION COASTAL (FP-C)		0.000	0	0.000	0.000	0	0.000	0.000	2	4.523	9.046
<b>H00S3</b>	SSP - SMALL ESCORT VESSELS (33')		0.000	12	0.832	9.979	0	0.000	0.000	0	0.000	0.000
<b>H0830</b>	RESERVE (NAVAL COASTAL WARFARE)		0.085	0	0.000	0.072	0	0.000	0.065	0	0.000	0.063
<b>H0830</b>	PRODUCTION ENGINEERING		3.440	0	0.000	0.583	0	0.000	0.409	0	0.000	0.487
<b>H0900</b>	CONSULTING SERVICES		3.057	0	0.000	0.531	0	0.000	0.364	0	0.000	0.290
<b>H0900</b>	RESERVE (NAVAL COASTAL WARFARE)		0.082	0	0.000	0.060	0	0.000	0.059	0	0.000	0.051
<b>H0CA5</b>	DIVE BOATS		0.000	2	1.000	2.000	0	0.000	0.000	0	0.000	0.000
<b>H0CA6</b>	RANGE SUPPORT CRAFT		0.000	2	10.000	20.000	0	0.000	0.000	0	0.000	0.000
<b>H0CAB</b>	FORCE PROTECTION BOAT (SMALL)		0.000	9	0.222	2.000	0	0.000	0.000	0	0.000	0.000
<b>H0G86</b>	<u>OCO</u>											
	OCO - RIBS		0.000	0	0.000	0.000	2	0.500	1.000	0	0.000	0.000
	OCO - 7M EOD RIBS (RESERVE)		0.000	0	0.000	0.000	6	0.234	1.404	0	0.000	0.000
	OCO - FORCE PROTECTION - COASTAL (RESERVE)		0.000	0	0.000	0.000	5	4.000	20.000	3	4.576	13.729
	OCO - FORCE PROTECTION (LARGE) (REVERSE)		0.000	0	0.000	0.000	2	0.650	1.300	0	0.000	0.000
	OCO - RIVERINE PATROL BOATS (RESERVE)		0.000	0	0.000	0.000	6	1.167	7.002	0	0.000	0.000
	<b>TOTAL EQUIPMENT</b>		<b>100.087</b>			<b>58.821</b>			<b>58.431</b>			<b>53.522</b>
<b>TOTAL</b>			<b>100.087</b>			<b>58.821</b>			<b>58.431</b>			<b>53.522</b>

CLASSIFICATION:					UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE February 2011		
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
<b>FY 2010</b>											
<b>H0028</b>	7M RIGID INFLATABLE BOAT (RIB)	21	0.170	NAVSEA		GSA	ZNA	SEP-10	JAN-11		
<b>H0035</b>	EOD SUPPORT CRAFT	9	0.228	NAVSEA		GSA	BRUNSWICK	MAY-10	OCT-10		
<b>H0039</b>	11M (36 FT) RIGID INFLATABLE BOAT (RIB)	3	0.560	NAVSEA		GSA	WILLARD MARINE	AUG-10	MAY-11		
<b>H0040</b>	FORCE PROTECTION (SMALL)	5	0.231	NAVSEA		GSA	TBD	FEB-10	AUG-11		
	RESERVE (NAVAL COASTAL WARFARE)	1	0.231	NAVSEA		GSA	BRUNSWICK	MAY-10	OCT-10		
<b>H0041</b>	FORCE PROTECTION (MEDIUM)	10	0.260	NAVSEA		GSA	TBD	FEB-10	AUG-11		
<b>H0042</b>	FORCE PROTECTION (LARGE)	8	0.696	NAVSEA		GSA	TBD	FEB-10	AUG-11		
	RESERVE (NAVAL COASTAL WARFARE)	1	0.696	NAVSEA		GSA	SEAARK	SEP-10	MAY-11		
<b>H0048</b>	NSW LONG RANGE SUPPORT CRAFT	2	0.292	NAVSEA		GSA	TBD	FEB-10	AUG-11		
<b>H0049</b>	RIVERINE MULTI-MISSION CRAFT	2	1.202	NAVSEA		GSA	USMI	SEP-10	APR-11		
<b>H0050</b>	NSW SHORT RANGE SUPPORT CRAFT	3	0.292	NAVSEA		GSA	TBD	FEB-10	AUG-11		
<b>H0052</b>	WORKBOAT (MEDIUM)	4	0.545	NAVSEA		GSA	TMG	APR-10	FEB-11		
<b>H00S3</b>	SSP - SMALL ESCORT VESSELS (33')	12	0.832	NAVSEA		COMPETITIVE	SAFEBOAT	APR-10	JUL-10		
<b>H0CA5</b>	DIVE BOATS	2	1.000	NAVSEA		GSA	TBD	APR-11	NOV-11		
<b>H0CA6</b>											

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				DATE February 2011	
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
RANGE SUPPORT CRAFT <b>H0CAB</b>	2	10.000	NAVSEA		GSA	TBD	AUG-10	FEB-11		
FORCE PROTECTION BOAT (SMALL)	9	0.222	NAVSEA		GSA	TBD	FEB-11	AUG-11		
<b>FY 2011</b>										
<b>H0028</b> 7M RIGID INFLATABLE BOAT (RIB)	20	0.175	NAVSEA		GSA	TBD	APR-11	OCT-11		
<b>H0035</b> EOD SUPPORT CRAFT	6	0.234	NAVSEA		GSA	TBD	JUN-11	DEC-11		
<b>H0039</b> 11M (36 FT) RIGID INFLATABLE BOAT (RIB)	3	0.570	NAVSEA		GSA	TBD	APR-11	JAN-12		
<b>H0040</b> FORCE PROTECTION (SMALL)	9	0.237	NAVSEA		GSA	TBD	MAR-11	AUG-11		
RESERVE (NAVAL COASTAL WARFARE)	1	0.237	NAVSEA		GSA	TBD	JUN-11	DEC-11		
<b>H0041</b> FORCE PROTECTION (MEDIUM)	10	0.265	NAVSEA		GSA	TBD	MAR-11	SEP-11		
<b>H0042</b> FORCE PROTECTION (LARGE)	8	0.710	NAVSEA		GSA	TBD	JUN-11	FEB-12		
RESERVE (NAVAL COASTAL WARFARE)	1	0.710	NAVSEA		GSA	TBD	JUN-11	DEC-12		
<b>H0049</b> RIVERINE MULTI-MISSION CRAFT	5	1.238	NAVSEA		GSA	TBD	JUN-11	DEC-12		
<b>H0050</b> NSW SHORT RANGE SUPPORT CRAFT	5	0.300	NAVSEA		GSA	TBD	FEB-11	JUL-11		
<b>H0052</b> WORKBOAT (MEDIUM)	2	0.557	NAVSEA		GSA	TBD	MAY-11	NOV-11		
<b>H0G86 OCO</b> OCO - RIBS	2	0.500	NAVSEA		GSA	TBD	JUN-11	DEC-11		
OCO - 7M EOD RIBS (RESERVE)	6	0.234	NAVSEA		GSA	TBD	JUN-11	DEC-11		
OCO - FORCE PROTECTION - COASTAL (RESERVE)	5	4.000	NAVSEA		GSA	TBD	SEP-11	SEP-12		

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				DATE February 2011	
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
OCO - FORCE PROTECTION (LARGE) (REERVE)	2	0.650	NAVSEA		GSA	TBD	JUN-11	FEB-12		
OCO - RIVERINE PATROL BOATS (RESERVE)	6	1.167	NAVSEA		GSA	TBD	JUN-11	DEC-11		
<b>FY 2012</b>										
<b>H0028</b> 7M RIGID INFLATABLE BOAT (RIB)	23	0.180	NAVSEA		GSA	TBD	FEB-12	JUN-12		
<b>H0035</b> EOD SUPPORT CRAFT	10	0.237	NAVSEA		GSA	TBD	JUN-12	DEC-12		
<b>H0039</b> 11M (36 FT) RIGID INFLATABLE BOAT (RIB)	4	0.580	NAVSEA		GSA	TBD	APR-12	JAN-13		
<b>H0040</b> RESERVE (NAVAL COASTAL WARFARE)	1	0.243	NAVSEA		GSA	TBD	JUN-12	DEC-12		
<b>H0041</b> FORCE PROTECTION (MEDIUM)	11	0.415	NAVSEA		GSA	TBD	MAR-12	SEP-12		
<b>H0042</b> FORCE PROTECTION (LARGE)	1	0.724	NAVSEA		GSA	TBD	JUN-12	FEB-13		
<b>H0043</b> RESERVE (NAVAL COASTAL WARFARE)	1	0.724	NAVSEA		GSA	TBD	JUN-12	FEB-13		
<b>H0048</b> NSW LONG RANGE SUPPORT CRAFT	2	0.308	NAVSEA		GSA	TBD	JUN-12	DEC-12		
<b>H0049</b> RIVERINE MULTI-MISSION CRAFT	6	1.275	NAVSEA		GSA	TBD	JUN-12	DEC-12		
<b>H0050</b> NSW SHORT RANGE SUPPORT CRAFT	3	0.307	NAVSEA		GSA	TBD	FEB-12	JUL-12		
<b>H0052</b> WORKBOAT (MEDIUM)	2	0.813	NAVSEA		GSA	TBD	MAY-12	NOV-12		
<b>H0056</b> WORKBOAT (LARGE)	2	1.441	NAVSEA		GSA	TBD	MAY-12	AUG-13		
<b>H0057</b> CNIC FORCE PROTECTION BOAT (SMALL)	3	0.359	NAVSEA		GSA	TBD	MAR-12	AUG-12		

<b>CLASSIFICATION:</b>				<b>UNCLASSIFIED</b>							
<b>Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)</b>					Weapon System				<b>DATE</b> February 2011		
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>					<b>P-1 LINE ITEM NOMENCLATURE</b> <b>STANDARD BOATS</b> <b>BLIN: 1210</b>				<b>SUBHEAD</b> 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
<b>H0058</b> FORCE PROTECTION COASTAL (FP-C)		2	4.523	NAVSEA		GSA	TBD	JUN-12	FEB-14		
<b>H0G86 OCO</b> OCO - FORCE PROTECTION - COASTAL (RESERVE)		3	4.576	NAVSEA		GSA	TBD	JUN-12	FEB-14		

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>												
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION</b>										DATE		February 2011		
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>					P-1 LINE ITEM NOMENCLATURE OTHER SHIPS TRAINING EQUIPMENT <b>SUBHEAD NO. 81H5 BLI: 1320</b>									
Program Element for Code B Items					Other Related Program Elements									
	Prior Years	ID Code		FY 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total
Quantity	0			0	0	0	0	0	0	0	0	0	0	0
COST ( In Millions)	50.3	A		13.5	16.1	29.9	0.0	29.9	19.9	34.0	22.0	21.4	0.0	207.1
SPARES COST ( In Millions)	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
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>														
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 various upgrades to simulators, such as the Submarine Bridge Trainer (SBT) and the Submarine Ship Control Operator Trainer (SCOT), identified by the Submarine Learning Center (SLC) and approved by Chief of Naval Operations (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. Virginia (VA) Class trainers are procured for the 2nd and 3rd home ports and for configuration updates to existing trainers at Naval Submarine School (NSS), New London.														
(H5374) SEAFRAME LCS TRAINING														
Integrated Tactical Trainers provides funding for the procurement of LCS Trainers at the LCS respective homeports. Trainers are required to meet Train to Qualify Capabilities Design Document's (CDD) Key Performance Parameters (KPP) in accordance with the minimal manning of the ship. Funding is for procurements of hardware associated with building the trainers, and installation of this hardware at the LCS Training facilities in each homeport. Procurements for the trainers are required for each selected seaframe with initial procurements for the San Diego homeport, followed by procurements for the Mayport homeport. Throughput of LCS crews requires more than one simulator of each type in a homeport.														



<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> <b>OTHER SHIPS TRAINING EQUIPMENT</b> <b>SUBHEAD NO. 81H5 BLI: 1320</b>	
Mission Bay Trainer - Allows for the qualification, training and team certification of the individuals and teams working in the mission bay, to include prepping and launching/recovering of mission package off-hull remote vehicles, and the operating of the cranes, doors, and other associated equipment in the mission bay.		

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>										
<b>EXHIBIT P-5 COST ANALYSIS</b>				Weapon System						DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>				ID Code		P-1 LINE ITEM NOMENCLATURE <b>OTHER SHIPS TRAINING EQUIPMENT SUBHEAD NO. 81H5</b>						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<u><b>EQUIPMENT</b></u>											
<b>H5265</b>	<u>SURFACE SUSTAINING TTE</u> SURFACE SUSTAINING TTE	A	7.366	VAR	0.000	0.661	VAR	0.000	0.673	VAR	0.000	0.692
<b>H5276</b>	<u>SUBSURFACE SUSTAINING TTE</u> FIDE CVN	A	4.413	VAR	0.000	3.528	VAR	0.000	1.348	VAR	0.000	3.015
	FIDE SUB	A	5.326	VAR	0.000	3.330	VAR	0.000	3.788	VAR	0.000	3.465
	SUSTAINING TTE	A	32.766	VAR	0.000	1.823	VAR	0.000	0.241	VAR	0.000	0.514
	SCOT	A	0.000	0	0.000	0.000	VAR	0.000	1.500	VAR	0.000	1.530
	VA CLASS CAMS MKII	A	0.000	1	2.450	2.450	1	2.489	2.489	0	0.000	0.000
	VA CLASS HM&E NLON	A	0.000	1	0.450	0.450	2	0.225	0.450	0	0.000	0.000
	VA CLASS ILPE FRONT PANEL SIMULATOR	A	0.000	0	0.000	0.000	2	2.803	5.605	0	0.000	0.000
	VA CLASS ILPE FRONT PANEL SIMULATOR ADVANCE PLNG	A	0.000	VAR	0.000	0.431	0	0.000	0.000	0	0.000	0.000
	VA CLASS TRAINER - FIRE FIGHTING	A	0.040	1	0.042	0.042	0	0.000	0.000	0	0.000	0.000
	VA CLASS TRAINER - R-134A A/C	A	0.365	1	0.750	0.750	0	0.000	0.000	0	0.000	0.000
<b>H5374</b>	<u>LCS SEAFRAME SIMULATORS TRAINING</u> LCS TACTICAL TRAINERS	A	0.000	0	0.000	0.000	0	0.000	0.000	VAR	0.000	7.000
	LCS MISSION BAY TRAINERS	A	0.000	0	0.000	0.000	0	0.000	0.000	VAR	0.000	13.697
<b>WAXXX</b>	<u>ACQUISITION WORKFORCE FUND-2009</u> ACQUISITION WORKFORCE FUND-2009		0.028	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	<b>TOTAL EQUIPMENT</b>		<b>50.304</b>			<b>13.465</b>			<b>16.094</b>			<b>29.913</b>
	<b>TOTAL</b>		<b>50.304</b>			<b>13.465</b>			<b>16.094</b>			<b>29.913</b>

**Comment:**

FY12 LCS Training requirements include 13M investment for Mission Bay Trainer to allow development and delivery of San Diego trainer in FY14. Tactical trainer in San Diego includes upgrade.

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>										
<b>EXHIBIT P-5 COST ANALYSIS (CONTINUATION)</b>					Weapon System					DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>					ID Code		P-1 LINE ITEM NOMENCLATURE <b>OTHER SHIPS TRAINING EQUIPMENT</b> <b>SUBHEAD NO. 81H5</b>					
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010			FY 2011			FY 2012		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
H5276: The unit cost for VA Class HM&E NLON decreases 50% between FY10 & FY11 due two kits being upgraded in FY11 vice only one kit being installed in FY10. A one time non-recurring cost was also paid in FY10 causing the cost to be slightly higher.												

<b>CLASSIFICATION:</b>				<b>UNCLASSIFIED</b>						
<b>Exhibit P5A, PROCUREMENT HISTORY AND PLANNING</b>					Weapon System				<b>DATE</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>					<b>P-1 LINE ITEM NOMENCLATURE</b> <b>OTHER SHIPS TRAINING EQUIPMENT</b> <b>BLIN: 1320</b>				<b>SUBHEAD</b> 81H5	
<b>COST ELEMENT</b>	<b>Quantity</b>	<b>UNIT</b>	<b>LOCATION</b>	<b>RFP ISSUE</b>	<b>CONTRACT</b>	<b>CONTRACTOR</b>	<b>AWARD</b>	<b>DATE OF</b>	<b>SPEC</b>	<b>DATE</b>
<b>FISCAL YEAR</b>		<b>COST</b>	<b>OF PCO</b>	<b>DATE</b>	<b>METHOD</b>	<b>AND LOCATION</b>	<b>DATE</b>	<b>FIRST</b>	<b>AVAIL</b>	<b>REVISIONS</b>
					<b>&amp; TYPE</b>			<b>DELIVERY</b>	<b>NOW</b>	<b>AVAILABLE</b>
<b>FY 2010</b>										
<b>H5276 SUBSURFACE SUSTAINING TTE</b>										
VA CLASS CAMS MKII	1	2.450	NAVSEA	N/A	WR	NSWC / CD PHILADELPHIA	FEB-10	FEB-11	YES	
VA CLASS HM&E NLON	1	0.450	NAVSEA	N/A	CPFF	ELECTRIC BOAT NEW LONDON	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	YES	
VA CLASS TRAINER - R-134A A/C	1	0.750	NAVSEA	N/A	CPFF	ELECTRIC BOAT NEW LONDON	FEB-10	FEB-11	YES	
<b>FY 2011</b>										
<b>H5276 SUBSURFACE SUSTAINING TTE</b>										
VA CLASS CAMS MKII	1	2.489	NAVSEA	N/A	WR	NSWC / CD PHILADELPHIA	FEB-11	FEB-12	YES	
VA CLASS HM&E NLON	2	0.225	NAVSEA	N/A	CPFF	ELECTRIC BOAT NEW LONDON	FEB-11	FEB-12	YES	
VA CLASS ILPE FRONT PANEL SIMULATOR	2	2.803	NAVSEA	N/A	WR	NSWC / CD PHILADELPHIA	FEB-11	FEB-12	YES	

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>												
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION</b>										<b>DATE</b> February 2011				
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>					<b>P-1 LINE ITEM NOMENCLATURE</b> OPERATING FORCES IPE <b>SUBHEAD NO. 81KN BLI: 1445</b>									
Program Element for Code B Items					Other Related Program Elements									
	Prior Years	ID Code		FY 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total
Quantity	0			0	0	0	0	0	0	0	0	0	0	0
COST ( In Millions)	169.1			51.2	49.9	54.6	0.0	54.6	56.6	60.5	54.7	55.8	0.0	552.4
SPARES COST ( In Millions)	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
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>														
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 Casualty Report (CASREP) avoidance. The program provides new industrial plant equipment to replace equipment beyond economical repair and to upgrade capabilities for ship maintenance and repair.														
KN200: ELECTRONIC TECHNICAL WORK DOCUMENT (ETWD) SUPPORT: This funding will support the Electronic Technical Work Document (ETWD) initiative. This innovative project will ultimately provide the capacity for real-time electronic access to work documents at the deckplate while ship maintenance is performed. ETWD will provide the ability to immediately and efficiently validate data, check problem resolution, job progress and work certification. This program will benefit the planning, execution, tracking and certification process when a ship requires maintenance and repair.														
KN300: SHIPYARD CAPITAL INVESTMENT PROGRAM (CIP): This line item provides funding for the Shipyard Capital Investment Program in support of the consolidated Naval Shipyard and Intermediate Maintenance Facilities (IMF) 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 Automated Data Processing (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.														
KN600: REGIONAL MAINTENANCE AUTOMATED INFORMATION SYSTEMS (RMAIS): Funding provides support for the 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.														
KN700: DISTANCE SUPPORT: These funds support the Anchor Desk (Integrated Call Center), Customer Relations Management (CRM) solutions, implementation and standardization of various														

<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> OPERATING FORCES IPE <b>SUBHEAD NO. 81KN BLI: 1445</b>	
<p>tele-assistance/telemaintenance tools, collaborative infrastructure support and metrics/data mining.</p> <p>KN900: INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS): Funding procures all technical refresh upgrades of the Integrated Condition Assessment System (ICAS) hardware and software aboard Surface Fleet hulls. Upgrades will include: ICAS workstation hardware (including Palm Pilot Portable Data Terminal (PDTs)), latest version of ICAS system software, Configuration Data Set (CDS) groom (including the implementation of developed enhancements) and ship's force refresher training. Manage contractor efforts, prepare installation plans, perform ship checks, procure material, oversee shipboard installation and Quality Assurance (QA), develop/implement CDS updates, install/test all software and CDSs, provide ship's force training.</p>		

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS				Weapon System						DATE		
										February 2011		
APPROPRIATION/BUDGET ACTIVITY				ID Code		P-1 LINE ITEM NOMENCLATURE						
OTHER PROCUREMENT, NAVY/BA 1						OPERATING FORCES IPE						
						SUBHEAD NO. 81KN						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<u>EQUIPMENT</u>											
	<u>ALL SPONSORS</u>											
WAXXX	ACQUISITION WORKFORCE FUND-2009		0.208	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	<b>ALL SPONSORS Subtotal</b>		<b>0.208</b>			<b>0.000</b>			<b>0.000</b>			<b>0.000</b>
	<u>LOGISTICS</u>											
KN200	ELECTRONIC TECHNICAL WORK DOCUMENT (ETWD)		0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.392
KN300	SHIPYARD CAPITAL INVESTMENT PROGRAM		161.463	27	1.347	36.369	18	1.721	30.974	4	7.919	31.676
KN300	SHAFT LATHE		0.000	0	0.000	0.000	1	17.000	17.000	1	17.000	17.000
KN300	SSN 688 DEFUELING COMPLEX		0.000	0	0.000	0.000	0	0.000	0.000	1	1.000	1.000
KN300	NFPC, PROPELLER PROFILER SU-17		0.000	1	13.000	13.000	0	0.000	0.000	0	0.000	0.000
KN600	REGIONAL MAINTENANCE AIS		2.513	0	0.000	0.310	0	0.000	0.320	0	0.000	0.325
KN700	DISTANCE SUPPORT		3.629	0	0.000	0.067	0	0.000	0.093	0	0.000	1.909
KN900	INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS)		0.000	0	0.000	1.468	0	0.000	1.469	0	0.000	2.063
	<b>LOGISTICS Subtotal</b>		<b>167.605</b>			<b>51.214</b>			<b>49.856</b>			<b>54.365</b>
	<u>SURFACE WARFARE</u>											
KN100	AFLOAT IPE SUPPORT (BFIMA UPGRADE) - SURFACE SUPPORT		1.294	0	0.000	0.000	0	0.000	0.000	0	0.000	0.277
	<b>SURFACE WARFARE Subtotal</b>		<b>1.294</b>			<b>0.000</b>			<b>0.000</b>			<b>0.277</b>
	<b>TOTAL EQUIPMENT</b>		<b>169.107</b>			<b>51.214</b>			<b>49.856</b>			<b>54.642</b>

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>									
<b>EXHIBIT P-5 COST ANALYSIS (CONTINUATION)</b>				Weapon System						DATE February 2011	
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>				ID Code		P-1 LINE ITEM NOMENCLATURE <b>OPERATING FORCES IPE SUBHEAD NO. 81KN</b>					
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS								
			Prior Years	FY 2010		FY 2011			FY 2012		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost
	<b>TOTAL</b>		<b>169.107</b>			<b>51.214</b>			<b>49.856</b>		<b>54.642</b>
<b>Comment:</b>											
<p>KN300 Shipyard CIP: The cost growth from FY11 to FY12 of \$5,235K, is attributed to the Navy decision to provide additional funds in support of specific projects that have a high return on investment (ROI) and life-cycle cost savings, which significantly reduce the Total Ownership Cost (TOC) of ship maintenance processes. Funds will support the procurement of three (3) Vertical Reciprocating Conveyors (VRCs) for three of the four Naval Shipyards.</p> <p>KN700: The growth from FY11 funding from \$93K to FY12 level of \$1.915M are for the purchase of Knowledge Management Software, Predictive Analytics Software, and Telephony/Automated Call Distribution (ACD) Procurement for Global Distance Support Center (GDSC) in Norfolk, Va. These purchases are all required to meet current validated and signed Fleet and Naval Enterprise Top Level Requirements and the DS Functional Solutions Analysis (FSA).</p>											



<b>CLASSIFICATION:</b>				<b>UNCLASSIFIED</b>							
<b>Exhibit P5A, PROCUREMENT HISTORY AND PLANNING</b>					Weapon System				<b>DATE</b> February 2011		
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>					<b>P-1 LINE ITEM NOMENCLATURE</b> <b>OPERATING FORCES IPE</b> <b>BLIN: 1445</b>				<b>SUBHEAD</b> 81KN		
<b>COST ELEMENT</b> <b>FISCAL YEAR</b>	<b>Quantity</b>	<b>UNIT</b> <b>COST</b>	<b>LOCATION</b> <b>OF PCO</b>	<b>RFP ISSUE</b> <b>DATE</b>	<b>CONTRACT</b> <b>METHOD</b> <b>&amp; TYPE</b>	<b>CONTRACTOR</b> <b>AND LOCATION</b>	<b>AWARD</b> <b>DATE</b>	<b>DATE OF</b> <b>FIRST</b> <b>DELIVERY</b>	<b>SPEC</b> <b>AVAIL</b> <b>NOW</b>	<b>DATE</b> <b>REVISIONS</b> <b>AVAILABLE</b>	
<b>FY 2010</b>											
<b>KN300</b> SHIPYARD CAPITAL INVESTMENT PROGRAM NFPC, PROPELLER PROFILER SU-17	27 1	1.347 13.000	VARIOUS FISC NORFOLK	TBD AUG-10	VARIOUS SS, FFP	VARIOUS TBD	JAN-10 NOV-10	MAR-10 JUL-12	YES YES		
<b>FY 2011</b>											
<b>KN300</b> SHIPYARD CAPITAL INVESTMENT PROGRAM SHAFT LATHE	18 1	1.721 17.000	VARIOUS FISC PUGET SOUND	TBD APR-10	VARIOUS FFP	VARIOUS HANKOOK	DEC-10 OCT-10	MAR-11 OCT-12	YES YES		
<b>FY 2012</b>											
<b>KN300</b> SHIPYARD CAPITAL INVESTMENT PROGRAM SHAFT LATHE SSN 688 DEFUELING COMPLEX	4 1 1	7.919 17.000 1.000	VARIOUS TBD FISC PUGET SOUND	TBD OCT-11 SEP-12	VARIOUS FFP FFP	VARIOUS TBD TBD	MAR-11 JUL-12 OCT-12	SEP-11 JUL-14 AUG-14	YES		
Remarks: The FY11 Shaft Lathe is an option on a contract that was awarded Aug 2010, and can be exercised as soon as FY11 funds are available. The FY12 SSN 688 Defueling Complex will require one year of in-house design by Puget Sound Naval Shipyard (PSNS) starting Oct 2011. FMB approved execution of design in the year prior to fabrication.											

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>																																	
<b>EXHIBIT P-21, PRODUCTION SCHEDULE</b>												<b>DATE:</b> February 2011																							
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>										<b>Weapon System</b>					<b>P-1 LINE ITEM NOMENCLATURE</b> <b>OPERATING FORCES IPE BLI: 1445</b>																				
						<b>Production Rate</b>			<b>Procurement Leadtimes</b>																										
<b>Item</b>		<b>Manufacturer's Name and Location</b>				<b>MSR</b>	<b>ECON</b>	<b>MAX</b>	<b>ALT Prior to Oct 1</b>	<b>ALT After Oct 1</b>	<b>Initial Mfg PLT</b>	<b>Reorder Mfg PLT</b>	<b>Total</b>	<b>Unit of Measure</b>																					
NFPC, PROPELLER PROFILER SU-17		TBD				0	0	0	0	1	20	0	1	MONTHS																					
SHAFT LATHE		HANKOOK				0	0	0	0	0	24	0	0	MONTHS																					
SSN 688 DEFUELING COMPLEX		TBD				0	0	0	3	13	22	0	13	MONTHS																					
<b>ITEM</b>		<b>F Y</b>	<b>S V C</b>	<b>Q T Y</b>	<b>D E L</b>	<b>B A L</b>	<b>FISCAL YEAR 2010</b>														<b>FISCAL YEAR 2011</b>														<b>B A L</b>
							<b>CY 2009</b>		<b>CALENDAR YEAR 2010</b>												<b>CALENDAR YEAR 2011</b>														
							<b>O C T</b>	<b>N V</b>	<b>D C</b>	<b>J A N</b>	<b>F E B</b>	<b>M A R</b>	<b>A P R</b>	<b>M A Y</b>	<b>J U N</b>	<b>J U L</b>	<b>A U G</b>	<b>S E P</b>	<b>O C T</b>	<b>N O V</b>	<b>D E C</b>	<b>J A N</b>	<b>F E B</b>	<b>M A R</b>	<b>A P R</b>	<b>M A Y</b>	<b>J U N</b>	<b>J U L</b>	<b>A U G</b>	<b>S E P</b>					
NFPC, PROPELLER PROFILER SU-17		2010	N	1	0	1																					1								
SHAFT LATHE		2011	N	1	0	1																					1								
<b>ITEM</b>		<b>F Y</b>	<b>S V C</b>	<b>Q T Y</b>	<b>D E L</b>	<b>B A L</b>	<b>FISCAL YEAR 2012</b>														<b>FISCAL YEAR 2013</b>														<b>B A L</b>
							<b>CY 2011</b>		<b>CALENDAR YEAR 2012</b>												<b>CALENDAR YEAR 2013</b>														
							<b>O C T</b>	<b>N V</b>	<b>D C</b>	<b>J A N</b>	<b>F E B</b>	<b>M A R</b>	<b>A P R</b>	<b>M A Y</b>	<b>J U N</b>	<b>J U L</b>	<b>A U G</b>	<b>S E P</b>	<b>O C T</b>	<b>N O V</b>	<b>D E C</b>	<b>J A N</b>	<b>F E B</b>	<b>M A R</b>	<b>A P R</b>	<b>M A Y</b>	<b>J U N</b>	<b>J U L</b>	<b>A U G</b>	<b>S E P</b>					
NFPC, PROPELLER PROFILER SU-17		2010	N	1	0	1																					0								
SHAFT LATHE		2011	N	1	0	1																					0								
SHAFT LATHE		2012	N	1	0	1																					1								
SSN 688 DEFUELING COMPLEX		2012	N	1	0	1																					1								

Remarks: The FY12 SSN 688 Defueling Complex will require 12 months of in-house design by Puget Sound Naval Shipyard (PSNS), approximately 4 months to award the fabrication contract, then 12 months to delivery, and 4-6 months training/set-up for shipyard personnel.

CLASSIFICATION:		UNCLASSIFIED																																	
EXHIBIT P-21, PRODUCTION SCHEDULE															DATE: February 2011																				
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1															Weapon System					P-1 LINE ITEM NOMENCLATURE OPERATING FORCES IPE BLI: 1445															
							Production Rate					Procurement Leadtimes																							
Item		Manufacturer's Name and Location					MSR	ECON	MAX	ALT Prior to Oct 1			ALT After Oct 1			Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																
NFPC, PROPELLER PROFILER SU-17		TBD					0	0	0	0			1			20	0	1	MONTHS																
SHAFT LATHE		HANKOOK					0	0	0	0			0			24	0	0	MONTHS																
SSN 688 DEFUELING COMPLEX		TBD					0	0	0	3			13			22	0	13	MONTHS																
ITEM		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2014											FISCAL YEAR 2015											B A L						
							CY 2013			CALENDAR YEAR 2014								CALENDAR YEAR 2015																	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P				
SHAFT LATHE		2012	N	1	0	1																													0
SSN 688 DEFUELING COMPLEX		2012	N	1	0	1																													0
ITEM		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2016											FISCAL YEAR 2017											B A L						
							CY 2015			CALENDAR YEAR 2016								CALENDAR YEAR 2017																	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P				
Remarks:		The FY12 SSN 688 Defueling Complex will require 12 months of in-house design by Puget Sound Naval Shipyard (PSNS), approximately 4 months to award the fabrication contract, then 12 months to delivery, and 4-6 months training/set-up for shipyard personnel.																																	

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>												
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION</b>										<b>DATE</b>				
										February 2011				
<b>APPROPRIATION/BUDGET ACTIVITY</b>					<b>P-1 LINE ITEM NOMENCLATURE</b>									
<b>OTHER PROCUREMENT, NAVY/BA 1</b>					<b>NUCLEAR ALTERATIONS</b>									
					<b>SUBHEAD NO. BLI: 1480</b>									
Program Element for Code B Items					Other Related Program Elements									
	Prior Years	ID Code		FY 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total
Quantity														
COST ( In Millions)	0.0			136.3	116.8	144.2	0.0	144.2	144.9	131.4	148.5	124.7	0.0	946.8
SPARES COST ( In Millions)	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>														
<p>The details of this program are classified CONFIDENTIAL and are reported to Congress annually in the classified budget justification books.</p>														

**CLASSIFICATION:** UNCLASSIFIED

**Exhibit P-40, BUDGET ITEM JUSTIFICATION**

DATE  
February 2011

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 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total
Quantity	0			2	1	2	0	22	3	3	4	5	CONT	CONT
COST ( In Millions)	95.4			80.4	83.0	79.6	0.0	79.6	112.5	158.9	262.4	311.8	CONT	CONT
SPARES COST ( In Millions)	4.1			5.3	8.1	5.4	0.0	5.4	3.6	4.2	7.3	5.3	CONT	CONT

**PROGRAM DESCRIPTION/JUSTIFICATION:**  
Littoral Combat Ship (LCS) focused mission packages provide the operational commander with capabilities to perform littoral mine countermeasures (MCM) operations, a detect-to-engage capability to counter small boat threats, and a detect-to-engage capability to counter enemy submarines.

Other Related Budgets: BLIs: OPN 4248, OPN 4225, OPN 2622, OPN 2624, RDT&E 0603581N Project 3129

**LM001 - MINE COUNTERMEASURES MISSION PACKAGE (MCM)**  
Mine Countermeasures (MCM) Mission Packages (MPs) will provide the Joint Force Commander with the capability to conduct MCM operations, open transit lanes for naval and commercial shipping, and open operating areas for naval forces, enabling Joint Force Entry operations. The MCM package consists of the following systems: Coastal Battlefield Reconnaissance & Analysis (COBRA), Airborne Laser Mine Detection System (ALMDS), Organic Airborne & Surface Influence Sweep (OASIS) System, Remote Multi-Mission Vehicle (RMMV), AQS-20A Minehunting Sonar, Airborne Mine Neutralization System (AMNS), Unmanned Surface Vehicle (USV) with Unmanned Surface Sweep System (USSS), Unmanned Undersea Vehicle (UUV) with Low Frequency Broad Band (LFBB) and Support Containers. The individual systems are combined into four modules: Organic Airborne Mine Countermeasures (OAMCM) Module, Remote Mine Hunting Module, Unmanned Influence Sweep Module, and Coastal Mine Reconnaissance Module. The OAMCM Module provides the long-range, airborne capability to conduct mine hunting and clearing operations in littorals zones, confined straits, choke points, and the Amphibious Objective Area (AOA) quickly. The Remote Mine Hunting Module provides an unmanned semi-submersible, long-endurance mine detection and classification capability to effectively hunt large areas for volume and bottom mines. The Unmanned Influence Sweep Module provides an unmanned surface, long endurance bottom sweep capability to clear large areas of mines that may remain after mine-hunting operations are complete. The Coastal Mine Reconnaissance Module will detect mines in the surface zone and beach zone areas, providing the Joint Force Commander with the information needed to clear mines with non-LCS assets and allow military forces to safely and effectively storm the beaches. MCM Incremental Wholeness procures the individual systems required to bring previously acquired mission packages up to the incremental acquisition baseline.

**LM002 - ANTI-SUBMARINE WARFARE MISSION PACKAGE (ASW)**  
Anti-Submarine Warfare (ASW) Mission Packages will provide ASW capabilities while operating in a contested littoral environment. The current ASW Mission Package is comprised of the Low Frequency Bi-Static, Monostatic, and Aviation Modules. Future ASW Mission Packages will include High Value Unit (HVU) Escort, Aviation and Torpedo Defense Mission Modules. The ASW MP will provide LCS with the ability to exploit real time undersea data, using maneuver and deception to enhance detection, classification, identification, targeting and destruction of enemy submarines.

Development of the system begins in FY13 for procurement of packages starting in FY16.

<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> LCS MODULES <b>SUBHEAD NO. 11LM BLI: 1600</b>	
<p><b>LM003 - LITTORAL SURFACE WARFARE MISSION PACKAGE (SUW)</b> The Surface Warfare Mission Package (SUW) will provide the capability to detect, track and engage 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: Surface to Surface Missile Module, two 30 mm Gun Mission Modules, Containers, the Maritime Security Module (procured under LM013) and Irregular Warfare Module (procured under LM014). Includes production, assembly, and installation and checkout of all mission system components. Defense Acquisition Executive cancelled the Army NLOS requirement. Navy is reassessing the material solution.</p> <p><b>LM005 - MISSION MODULE ECP</b> Supports Engineering Change Proposals for the systems in the MCM and SUW mission packages.</p> <p><b>LM006 - LCS MISSION MODULE RADIOS</b> Communications terminal equipment to provide communications capability for LCS Mission Modules from off-board vehicles to the seaframe. Includes installation and checkout on-board the seaframe.</p> <p><b>LM007 - C-HAWKLINK SUPPORT EQUIPMENT</b> The C-Hawklink Support Equipment consists of C-Band to Ku-Band radio conversion equipment set to enable the SH-60B helicopter interoperability with LCS Seaframe and Mission Modules via the Ku-Band Tactical Control Data Link.</p> <p><b>LM008 - MISSION PACKAGE COMPUTING ENVIRONMENT (MPCE)</b> Commercial Off The Shelf (COTS)- Based Common Computing environment will support legacy Mission Package (MP) Command &amp; Control (C2) applications and transition to Modular Open Systems Approach (MOSA) &amp; Navy Open Architecture Computing Environment (OACE). It also provides a common computing environment to support the execution of Mission Package Application Software (MPAS), the shipboard tactical software associated with each mission package that enables execution of its focused mission. Includes installation and checkout on-board the seaframe.</p> <p><b>LM009 - DATA MISSION PAYLOAD</b> Provide the capability to extend the communications range of the LCS mission module vehicles over the horizon. It provides the LCS mission modules and seaframe with a network-centric capability that may be installed on air and surface vehicles supporting multiple sensors operating in the maritime environment. Includes installation and checkout on-board the seaframe.</p> <p><b>LM010 - MISSION PACKAGE INTEGRATION</b> Provides a system engineering partner from industry responsible to bring all modules together, meeting all integration and interface requirements, while providing a path to the World-Wide Technology Market. Starting in FY11, this funding is allocated to the individual end items.</p> <p><b>LM012 - TRAINING EQUIPMENT</b> Procurement of tactical training hardware for Mission Package Trainer. Hardware consists of processing architecture capable of hosting tactical Mission Package application software and COTS variants of shipboard consoles. This equipment provides the training platform to train Mission Package Sailors in mission planning, execution and post mission analysis.</p> <p><b>LM013 - MARITIME SECURITY MODULE</b> The Maritime Security Module (MSM) provides the LCS sea frame with the capability to conduct Level II Visit, Board, Search and Seizure (VBSS) operations and the ability to conduct anti-piracy and maritime interdiction missions. This budget line procures hardware for a full MSM that includes two 11 meter Rigid Hull Inflatable Boats (RHIB), two boat cradles, a VBSS Allowance Equipment List (AEL) for communications and tactical equipment, and berthing and habitability support containers. Includes production, assembly, and installation and checkout of all mission system components.</p> <p><b>LM014 - IRREGULAR WARFARE (IW) MODULE</b> The Irregular Warfare module will provide medical and training Irregular Warfare enhancements for the LCS SUW Mission Package. Development (RDTEN) of the Irregular Warfare module system begins in FY12 for procurement of packages starting in FY13.</p>		

<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>	
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)</b>		<b>DATE</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>	<b>P-1 LINE ITEM NOMENCLATURE</b> LCS MODULES <b>SUBHEAD NO. 11LM BLI: 1600</b>	
<b>LM900 - CONSULTING SERVICES</b> Provides Program Management Support, engineering and technical support, studies, analysis and evaluation on Mission Package Systems.		

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>										
<b>EXHIBIT P-5 COST ANALYSIS</b>				Weapon System						DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>				ID Code		P-1 LINE ITEM NOMENCLATURE <b>LCS MODULES</b> <b>SUBHEAD NO. 11LM</b>						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<u><b>EQUIPMENT</b></u>											
<b>LM001</b>	<u>MCM MISSION PACKAGE</u>											
	USV		1.675	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	USV - SWEEP		2.410	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	USV - CRADLE		0.050	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
	RMMV - CRADLE		0.000	2	3.713	7.426	2	3.800	7.600	2	3.891	7.782
	AMNS		1.995	1	2.800	2.800	1	2.800	2.800	0	0.000	0.000
	ALMDS		5.342	1	7.425	7.425	1	7.100	7.100	0	0.000	0.000
	AN/AQS-20A		17.319	3	7.260	21.780	3	7.550	22.650	1	8.920	8.920
	COBRA		0.000	0	0.000	0.000	1	4.095	4.095	1	4.165	4.165
	CABLE REWIND ASSEMBLY		0.000	0	0.000	0.000	0	0.000	0.000	1	0.850	0.850
	MCM - SUPPORT CONTAINER (10 PER MP)		4.124	10	0.422	4.217	8	0.250	2.000	8	0.362	2.896
	PRODUCTION ENGINEERING SUPPORT		1.306	0	0.000	2.939	0	0.000	9.216	0	0.000	3.538
	SUPPORT EQUIPMENT		1.814	0	0.000	5.007	0	0.000	2.249	0	0.000	2.301
	MCM INCREMENTAL WHOLENESS - AQS-20A		5.773	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
<b>LM002</b>	<u>ASW MISSION PACKAGE</u>											
	ASW MISSION PACKAGE		17.498	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
<b>LM003</b>	<u>SUW MISSION PACKAGE</u>											
	GUN MODULE		0.000	2	6.203	12.406	0	0.000	0.000	2	6.416	12.831
	SHIPPING CONTAINERS (6 PER PACKAGE)		0.000	0	0.000	0.000	0	0.000	0.000	6	0.145	0.869
	SUPPORT CONTAINER (4 PER MP)		0.000	10	0.231	2.308	0	0.000	0.000	4	0.403	1.613
	PRODUCTION ENGINEERING		0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	2.013
<b>LM005</b>	<u>MISSION MODULE ECP</u>											



CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)				Weapon System						DATE		
										February 2011		
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 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	ENGINEERING CHANGE PROPOSALS		16.988	0	0.000	0.000	0	0.000	0.000	0	0.000	6.715
<b>LM006</b>	<u>LCS MISSION MODULES RADIO</u>											
	LCS MISSION MODULES RADIO		0.000	1	1.322	1.322	2	1.338	2.676	2	1.370	2.740
	PRODUCTION ENGINEERING		0.000	0	0.000	0.000	0	0.000	0.510	0	0.000	0.301
<b>LM007</b>	<u>C-HAWKLINK SUPPORT EQUIPMENT</u>											
	C-HAWKLINK SUPPORT EQUIPMENT		0.447	0	0.000	0.000	0	0.000	5.438	0	0.000	0.000
<b>LM008</b>	<u>MPCE</u>											
	MPCE		0.000	2	0.338	0.675	3	0.635	1.905	3	0.534	1.601
	PRODUCTION ENGINEERING		0.000	0	0.000	0.000	0	0.000	0.363	0	0.000	0.285
<b>LM009</b>	<u>DATA MISSION PAYLOAD</u>											
	DATA MISSION PAYLOAD		0.000	0	0.000	0.000	1	5.214	5.214	0	0.000	0.000
	PRODUCTION ENGINEERING		0.000	0	0.000	0.000	0	0.000	0.994	0	0.000	0.000
<b>LM010</b>	<u>MISSION PACKAGE INTEGRATION</u>											
	MISSION PACKAGE PRODUCTION ENGINEERING & ASSEMBLY		0.000	0	0.000	4.523	0	0.000	0.000	0	0.000	0.000
<b>LM012</b>	<u>TRAINING EQUIPMENT</u>											
	MISSION PACKAGE TRAINING EQUIPMENT		0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	8.793
	SHIP TRAINING EQUIPMENT		1.180	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
<b>LM013</b>	<u>MARITIME SECURITY MODULE</u>											
	MARITIME SECURITY MODULE		0.000	2	2.701	5.402	1	2.500	2.500	3	2.500	7.500
	PRODUCTION ENGINEERING		0.000	0	0.000	0.000	0	0.000	0.477	0	0.000	0.822

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)				Weapon System						DATE		
										February 2011		
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 2010		FY 2011			FY 2012			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
LM014	IRREGULAR WARFARE											
LM900	CONSULTING SERVICES		1.562	0	0.000	2.157	0	0.000	5.164	0	0.000	3.048
WAXXX	ACQUISITION WORKFORCE FUND - 2009		0.361	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	TOTAL EQUIPMENT		<b>95.415</b>			<b>80.387</b>			<b>82.951</b>			<b>79.583</b>
	TOTAL		<b>95.415</b>			<b>80.387</b>			<b>82.951</b>			<b>79.583</b>

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE February 2011	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1					P-1 LINE ITEM NOMENCLATURE LCS MODULES BLIN: 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
<b>FY 2010</b>										
<b>LM001 MCM MISSION PACKAGE</b>										
RMMV - CRADLE	2	3.713	NAVSEA	FEB-10	C/CPFF	NORTHROP GRUMMAN, NY	SEP-10	DEC-11		
AMNS	1	2.800	NAVSEA	APR-10	SS/OPTION/FFP	RAYTHEON	SEP-10	FEB-12		
ALMDS	1	7.425	NSWC/PC, FL	DEC-08	SS/OPTION/FFP	NG MELBOURNE, FL	SEP-10	MAR-12		
AN/AQS-20A	3	7.260	NAVSEA	FEB-11	C/FFP	UNKNOWN	AUG-11	NOV-13		
MCM - SUPPORT CONTAINER (10 PER MP)	10	0.422	NAVSEA	FEB-10	C/CPFF	NORTHROP GRUMMAN, NY	SEP-10	DEC-11		
<b>LM003 SUW MISSION PACKAGE</b>										
GUN MODULE	2	6.203	NSWC/DAHL, VA	N/A	WX	VARIOUS	MAY-10	NOV-11		
SUPPORT CONTAINER (4 PER MP)	10	0.231	NAVSEA	N/A	CP/AF	NORTHROP GRUMMAN, NY	SEP-10	SEP-11		
<b>LM006 LCS MISSION MODULES RADIO</b>										
LCS MISSION MODULES RADIO	1	1.322	SPAWAR	MAY-10	SS/FFP	RSS	SEP-10	MAR-12		
<b>LM008 MPCE</b>										
MPCE	2	0.338	NSWC/PC, FL	JUN-08	WX	MARZIK	MAY-10	JAN-11		
<b>LM013 MARITIME SECURITY MODULE</b>										
MARITIME SECURITY MODULE	2	2.701	NAVSEA	N/A		VARIOUS	AUG-10	AUG-11		
<b>FY 2011</b>										
<b>LM001 MCM MISSION PACKAGE</b>										
RMMV - CRADLE	2	3.800	NAVSEA	N/A	C/CPFF	NORTHROP GRUMMAN, NY	MAR-11	JUN-12		
AMNS	1	2.800	NAVSEA	N/A	SS/OPTION/FFP	RAYTHEON	JUL-11	DEC-12		
ALMDS	1	7.100	NSWC/PC, FL	NOV-10	SS/OPTION/FFP	NORTHROP GRUMMAN, FL	JUL-11	JAN-13		
AN/AQS-20A	3	7.550	NAVSEA	FEB-11	C/FFP	UNKNOWN	AUG-11	NOV-13		
COBRA	1	4.095	NSWC/PC, FL	N/A	C/FFP	ARETE	MAR-11	SEP-12		
MCM - SUPPORT CONTAINER (10 PER MP)	8	0.250	NAVSEA	N/A	C/CPFF	NORTHROP GRUMMAN, NY	MAR-11	JUN-12		
<b>LM006 LCS MISSION MODULES RADIO</b>										
LCS MISSION MODULES RADIO	2	1.338	SPAWAR	N/A	C/FFP/OPTION	UNKNOWN	FEB-11	FEB-12		
<b>LM008 MPCE</b>										

CLASSIFICATION:					UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				DATE		
APPROPRIATION/BUDGET ACTIVITY					P-1 LINE ITEM NOMENCLATURE				SUBHEAD		
OTHER PROCUREMENT, NAVY/BA 1					LCS MODULES				11LM		
BLIN: 1600											
COST ELEMENT	Quantity	UNIT	LOCATION	RFP ISSUE	CONTRACT	CONTRACTOR	AWARD	DATE OF	SPEC	DATE	
FISCAL YEAR		COST	OF PCO	DATE	METHOD	AND LOCATION	DATE	FIRST	AVAIL	REVISIONS	
					& TYPE			DELIVERY	NOW	AVAILABLE	
MPCE	3	0.635	NAVSEA	N/A	SS/FFP	AAC	MAR-11	JUL-11			
<b>LM009 DATA MISSION PAYLOAD</b>											
DATA MISSION PAYLOAD	1	5.214	SPAWAR	N/A	SS/FFP	VARIOUS	MAY-11	NOV-12			
<b>LM013 MARITIME SECURITY MODULE</b>											
MARITIME SECURITY MODULE	1	2.500	NAVSEA	N/A		VARIOUS	JUN-11	JUN-12			
<b>FY 2012</b>											
<b>LM001 MCM MISSION PACKAGE</b>											
RMMV - CRADLE	2	3.891	NAVSEA	N/A	C/CPFF	NORTHROP GRUMMAN, NY	MAR-12	JUN-13			
AN/AQS-20A	1	8.920	NAVSEA	AUG-11	C/FFP/OPTION	UNKNOWN	NOV-11	FEB-14			
COBRA	1	4.165	NSWC/PC, FL	N/A	C/FFP/OPTION	ARETE	MAR-12	SEP-13			
CABLE REWIND ASSEMBLY	1	0.850	NSWC/PC, FL	N/A	TBD	UNKNOWN	MAR-12	MAR-13			
MCM - SUPPORT CONTAINER (10 PER MP)	8	0.362	NAVSEA	N/A	C/CPFF	NORTHROP GRUMMAN, NY	MAR-12	MAR-13			
<b>LM003 SUW MISSION PACKAGE</b>											
GUN MODULE	2	6.416	NSWC/DAHL, VA	N/A	WX	VARIOUS	MAR-12	SEP-13			
SHIPPING CONTAINERS (6 PER PACKAGE)	6	0.145	NAVSEA	N/A	C/CPFF	NORTHROP GRUMMAN, NY	MAR-12	MAR-13			
SUPPORT CONTAINER (4 PER MP)	4	0.403	NAVSEA	N/A	C/CPFF	NORTHROP GRUMMAN, NY	MAR-12	MAR-13			
<b>LM006 LCS MISSION MODULES RADIO</b>											
LCS MISSION MODULES RADIO	2	1.370	SPAWAR	N/A	SS/FFP/OPTION	RSS	JAN-12	JUL-13			
<b>LM008 MPCE</b>											
MPCE	3	0.534	NAVSEA	N/A	SS/FFP/OPTION	AAC	DEC-11	APR-12			
<b>LM013 MARITIME SECURITY MODULE</b>											
MARITIME SECURITY MODULE	3	2.500	NAVSEA	N/A	VARIOUS	VARIOUS	MAR-12	MAR-13			

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>																																			
<b>EXHIBIT P-21, PRODUCTION SCHEDULE</b>														<b>DATE:</b> February 2011																							
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>											<b>Weapon System</b>					<b>P-1 LINE ITEM NOMENCLATURE</b> <b>LCS MODULES BLI: 1600</b>																					
											<b>Production Rate</b>			<b>Procurement Leadtimes</b>																							
Item	Manufacturer's Name and Location					MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																							
ALMDS	NG MELBOURNE, FL					3	12	24	0	0	18	18	18	EA																							
RMMV - CRADLE	NORTHROP GRUMMAN, NY					2	8	12	3	3	15	15	18	EA																							
AN/AQS-20A	UNKNOWN					1	12	12	1	2	0	27	29	EA																							
COBRA	ARETE					2	8	12	2	2	18	18	20	EA																							
ITEM	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2010										FISCAL YEAR 2011										B A L											
						CY 2009		CALENDAR YEAR 2010						CALENDAR YEAR 2011																							
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		J U N	J U L	A U G	S E P							
ALMDS	2010	N	1	0	1																																1
ALMDS	2011	N	1	0	1																																1
AN/AQS-20A	2010	N	3	0	3																																3
AN/AQS-20A	2011	N	3	0	3																																3
AN/AQS-20A	2012	N	1	0	1																																1
COBRA	2011	N	1	0	1																																1
COBRA	2012	N	1	0	1																																1
RMMV - CRADLE	2010	N	2	0	2																																2
RMMV - CRADLE	2011	N	2	0	2																																2
ITEM	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2012										FISCAL YEAR 2013										B A L											
						CY 2011		CALENDAR YEAR 2012						CALENDAR YEAR 2013																							
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		J U N	J U L	A U G	S E P							
ALMDS	2010	N	1	0	1																															0	
ALMDS	2011	N	1	0	1																																0
AN/AQS-20A	2010	N	3	0	3																																3
AN/AQS-20A	2011	N	3	0	3																																3
AN/AQS-20A	2012	N	1	0	1																																1
COBRA	2011	N	1	0	1																																0
COBRA	2012	N	1	0	1																																0
RMMV - CRADLE	2010	N	2	0	2				1	1																											0
RMMV - CRADLE	2011	N	2	0	2																																0
RMMV - CRADLE	2012	N	2	0	2																																0

Remarks:

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>																												
<b>EXHIBIT P-21, PRODUCTION SCHEDULE</b>																	<b>DATE:</b> February 2011													
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>												<b>Weapon System</b>					<b>P-1 LINE ITEM NOMENCLATURE</b> <b>LCS MODULES BLI: 1600</b>													
						<b>Production Rate</b>			<b>Procurement Leadtimes</b>																					
<b>Item</b>	<b>Manufacturer's Name and Location</b>					<b>MSR</b>	<b>ECON</b>	<b>MAX</b>	<b>ALT Prior to Oct 1</b>	<b>ALT After Oct 1</b>	<b>Initial Mfg PLT</b>	<b>Reorder Mfg PLT</b>	<b>Total</b>	<b>Unit of Measure</b>																
ALMDS	NG MELBOURNE, FL					3	12	24	0	0	18	18	18	EA																
RMMV - CRADLE	NORTHROP GRUMMAN, NY					2	8	12	3	3	15	15	18	EA																
AN/AQS-20A	UNKNOWN					1	12	12	1	2	0	27	29	EA																
COBRA	ARETE					2	8	12	2	2	18	18	20	EA																
<b>ITEM</b>	<b>F</b> <b>Y</b>	<b>S</b> <b>V</b> <b>C</b>	<b>Q</b> <b>T</b> <b>Y</b>	<b>D</b> <b>E</b> <b>L</b>	<b>B</b> <b>A</b> <b>L</b>	<b>FISCAL YEAR 2014</b>											<b>FISCAL YEAR 2015</b>											<b>B</b> <b>A</b> <b>L</b>		
						<b>CY 2013</b>			<b>CALENDAR YEAR 2014</b>								<b>CALENDAR YEAR 2015</b>													
						<b>O</b>	<b>N</b>	<b>D</b>	<b>J</b>	<b>F</b>	<b>M</b>	<b>A</b>	<b>M</b>	<b>J</b>	<b>J</b>	<b>A</b>	<b>S</b>	<b>O</b>	<b>N</b>	<b>D</b>	<b>J</b>	<b>F</b>	<b>M</b>	<b>A</b>	<b>M</b>	<b>J</b>	<b>J</b>		<b>A</b>	<b>S</b>
						<b>C</b>	<b>O</b>	<b>E</b>	<b>A</b>	<b>E</b>	<b>A</b>	<b>P</b>	<b>A</b>	<b>U</b>	<b>U</b>	<b>U</b>	<b>E</b>	<b>C</b>	<b>O</b>	<b>E</b>	<b>A</b>	<b>E</b>	<b>A</b>	<b>P</b>	<b>A</b>	<b>U</b>	<b>U</b>		<b>U</b>	<b>E</b>
AN/AQS-20A	2010	N	3	0	3		1	2																				0		
AN/AQS-20A	2011	N	3	0	3		1	1	1																			0		
AN/AQS-20A	2012	N	1	0	1				1																			0		
<b>ITEM</b>	<b>F</b> <b>Y</b>	<b>S</b> <b>V</b> <b>C</b>	<b>Q</b> <b>T</b> <b>Y</b>	<b>D</b> <b>E</b> <b>L</b>	<b>B</b> <b>A</b> <b>L</b>	<b>FISCAL YEAR 2016</b>											<b>FISCAL YEAR 2017</b>											<b>B</b> <b>A</b> <b>L</b>		
						<b>CY 2015</b>			<b>CALENDAR YEAR 2016</b>								<b>CALENDAR YEAR 2017</b>													
						<b>O</b>	<b>N</b>	<b>D</b>	<b>J</b>	<b>F</b>	<b>M</b>	<b>A</b>	<b>M</b>	<b>J</b>	<b>J</b>	<b>A</b>	<b>S</b>	<b>O</b>	<b>N</b>	<b>D</b>	<b>J</b>	<b>F</b>	<b>M</b>	<b>A</b>	<b>M</b>	<b>J</b>	<b>J</b>		<b>A</b>	<b>S</b>
						<b>C</b>	<b>O</b>	<b>E</b>	<b>A</b>	<b>E</b>	<b>A</b>	<b>P</b>	<b>A</b>	<b>U</b>	<b>U</b>	<b>U</b>	<b>E</b>	<b>C</b>	<b>O</b>	<b>E</b>	<b>A</b>	<b>E</b>	<b>A</b>	<b>P</b>	<b>A</b>	<b>U</b>	<b>U</b>		<b>U</b>	<b>E</b>
<b>Remarks:</b>																														

CLASSIFICATION:		UNCLASSIFIED																													
EXHIBIT P-21, PRODUCTION SCHEDULE																	DATE: February 2011														
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA 1												Weapon System					P-1 LINE ITEM NOMENCLATURE LCS MODULES BLI: 1600														
						Production Rate			Procurement Leadtimes																						
Item		Manufacturer's Name and Location				MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																	
GUN MODULE		VARIOUS				2	8	12	0	5	18	18	23	EA																	
ITEM		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2010													FISCAL YEAR 2011								B A L			
							CY 2009		CALENDAR YEAR 2010											CALENDAR YEAR 2011											
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J		J	A	S
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U		U	U	E
GUN MODULE		2010	N	2	0	2																								2	
GUN MODULE		2012	N	2	0	2																							2		
ITEM		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2012													FISCAL YEAR 2013								B A L			
							CY 2011		CALENDAR YEAR 2012											CALENDAR YEAR 2013											
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J		J	A	S
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U		U	U	E
GUN MODULE		2010	N	2	0	2		1	1																				0		
GUN MODULE		2012	N	2	0	2																					1	1			
Remarks:																															

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>																													
<b>EXHIBIT P-21, PRODUCTION SCHEDULE</b>																	<b>DATE:</b> February 2011														
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY/BA 1</b>												<b>Weapon System</b>					<b>P-1 LINE ITEM NOMENCLATURE</b> <b>LCS MODULES BLI: 1600</b>														
						<b>Production Rate</b>			<b>Procurement Leadtimes</b>																						
<b>Item</b>		<b>Manufacturer's Name and Location</b>				<b>MSR</b>	<b>ECON</b>	<b>MAX</b>	<b>ALT Prior to Oct 1</b>	<b>ALT After Oct 1</b>	<b>Initial Mfg PLT</b>	<b>Reorder Mfg PLT</b>	<b>Total</b>	<b>Unit of Measure</b>																	
GUN MODULE		VARIOUS				2	8	12	0	5	18	18	23	EA																	
<b>ITEM</b>		F Y C	S V C	Q T Y	D E L	B A L	<b>FISCAL YEAR 2014</b>														<b>FISCAL YEAR 2015</b>										B A L
							<b>CY 2013</b>			<b>CALENDAR YEAR 2014</b>											<b>CALENDAR YEAR 2015</b>										
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
GUN MODULE		2012	N	2	1	1	1																							0	
<b>ITEM</b>		F Y C	S V C	Q T Y	D E L	B A L	<b>FISCAL YEAR 2016</b>														<b>FISCAL YEAR 2017</b>										B A L
							<b>CY 2015</b>			<b>CALENDAR YEAR 2016</b>											<b>CALENDAR YEAR 2017</b>										
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
Remarks:																															



<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>																												
<b>EXHIBIT P-21, PRODUCTION SCHEDULE</b>																DATE: February 2011														
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>											Weapon System					P-1 LINE ITEM NOMENCLATURE <b>LCS MODULES BLI: 1600</b>														
						Production Rate			Procurement Leadtimes																					
Item	Manufacturer's Name and Location					MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																
MARITIME SECURITY MODULE	VARIOUS					2	8	12	2	2	12	12	14	EA																
ITEM	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2010													FISCAL YEAR 2011						B A L					
						CY 2009			CALENDAR YEAR 2010										CALENDAR YEAR 2011											
						O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A		M	J	J	A	S
						C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P		A	U	U	U	E
MARITIME SECURITY MODULE	2010	N	2	0	2																					1	1	0		
MARITIME SECURITY MODULE	2011	N	1	0	1																	A						1		
MARITIME SECURITY MODULE	2012	N	3	0	3																							3		
ITEM	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2012													FISCAL YEAR 2013						B A L					
						CY 2011			CALENDAR YEAR 2012										CALENDAR YEAR 2013											
						O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A		M	J	J	A	S
						C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P		A	U	U	U	E
MARITIME SECURITY MODULE	2011	N	1	0	1																							0		
MARITIME SECURITY MODULE	2012	N	3	0	3					A														1	1	1		0		

Remarks:

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>												
<b>Exhibit P-40, BUDGET ITEM JUSTIFICATION</b>										<b>DATE</b>			February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY</b>					<b>P-1 LINE ITEM NOMENCLATURE</b>									
<b>OTHER PROCUREMENT, NAVY/BA 1</b>					<b>LSD MIDLIFE</b>									
					<b>SUBHEAD NO. 81ST BLI: 1610</b>									
Program Element for Code B Items					Other Related Program Elements									
	Prior Years	ID Code		FY 2010	FY 2011	BASELINE FY 2012	OCO FY 2012	TOTAL FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total
Quantity	0			0	0	0	0	0	0	0	0	0	0	0
<b>COST</b>														
( In Millions)	182.7			117.7	106.6	143.5	0.0	143.5	73.7	88.3	1.7	0.0	0.0	714.2
<b>SPARES COST</b>														
( In Millions)	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>														
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 (2038). Primary objectives are to maintain or improve readiness, safety, reliability, 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 equipments including generators, low pressure air compressors, canned lube oil pumps, A/C Plants and deck crane control systems.														
<b>ST001 - LSD MIDLIFE UPGRADES</b>														
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 (2038). 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.														
<b>ST5IN - INSTALLATION OF EQUIPMENT</b>														
Funding is for installation of equipment in support of the LSD Mid-life Program.														
<b>STCA2 - LSD 41/49 DIESEL ENGINE LOW LEVEL LOAD (FY10 CONGRESSIONAL ADD)</b>														
The Ship Service Diesel Generator (SSDG) low load kits for the LSD 41/49 class consisting of a programmable logic controller for blower bypass and jacket cooling water control in each auxiliary machinery room.														

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>										
<b>EXHIBIT P-5 COST ANALYSIS</b>				Weapon System						DATE February 2011		
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA 1</b>				ID Code		P-1 LINE ITEM NOMENCLATURE <b>LSD MIDLIFE SUBHEAD NO. 81ST</b>						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN MILLIONS OF DOLLARS									
			Prior Years	FY 2010			FY 2011			FY 2012		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<u><b>EQUIPMENT</b></u>											
<b>ST001</b>	<u>LSD MIDLIFE UPGRADES</u>											
	PROPELLER BLADES & PLMU		3.287	3	0.955	2.865	1	0.964	0.964	3	0.969	2.907
	STEERING CONTROL SYSTEM		5.578	2	0.646	1.292	2	0.690	1.380	3	0.717	2.150
	A/C PLANT (LSD 41 - 43)		3.154	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	A/C PLANT (LSD 44 - 52)		1.748	2	0.646	1.292	2	0.450	0.900	3	0.472	1.415
	30 TON DECK CRANE CONTROL SYS		3.200	0	0.000	0.000	1	1.522	1.522	0	0.000	0.000
	LOW PRESSURE AIR COMPRESSOR		3.796	2	0.639	1.278	1	0.656	0.656	1	0.669	0.669
	RO & GENERATORS		52.148	2	10.721	21.442	2	10.750	21.500	3	10.905	32.715
	CANNED LUBE OIL PUMP		3.300	2	0.740	1.480	2	0.760	1.520	1	0.780	0.780
<b>STCA2</b>	LSD 41/49 DIESEL ENGINE LOW LEVEL LOAD		4.800	0	0.000	1.600	0	0.000	0.000	0	0.000	0.000
	<b>TOTAL EQUIPMENT</b>		<b>81.011</b>			<b>31.249</b>			<b>28.442</b>			<b>40.636</b>
	<u><b>INSTALLATION</b></u>											
<b>ST5IN</b>	INSTALL OF EQUIPMENT		101.660	0	0.000	86.487	0	0.000	78.170	0	0.000	102.847
	<b>TOTAL INSTALLATION</b>		<b>101.660</b>			<b>86.487</b>			<b>78.170</b>			<b>102.847</b>
	<b>TOTAL</b>		<b>182.671</b>			<b>117.736</b>			<b>106.612</b>			<b>143.483</b>
<b>Comment:</b>												
Remarks: PY Procurement and Install was budgeted/executed in OPN BLI 0981 in FY 08 and prior.												
30T Deck Crane and Canned Lube Oil Pump PY procurements funded with Congressional add funding.												

CLASSIFICATION:				UNCLASSIFIED						
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE February 2011	
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
<b>FY 2010</b>										
<b>ST001 LSD MIDLIFE UPGRADES</b>										
PROPELLER BLADES & PLMU	3	0.955	NSWC, PHILA		FP (OPT)	ROLLS ROYCE, WALPOLE, MA	NOV-09	DEC-10		
STEERING CONTROL SYSTEM	2	0.646	NSWC, PHILA		FP (OPT)	HENSCHEL, NEWBURYPORT, MA	JAN-10	JAN-11		
A/C PLANT (LSD 44 - 52)	2	0.646	NSWC, PHILA		FP (OPT)	YORK MARINE, YORK, PA	JAN-10	JAN-11		
LOW PRESSURE AIR COMPRESSOR	2	0.639	NSWC, PHILA		FP (OPT)	RIX, BENECIA, CA	JAN-10	NOV-10		
RO & GENERATORS	2	10.721	NSWC, PHILA		FP (OPT)	AQUA-CHEM , KNOXVILLE TN	MAR-10	MAR-11		
CANNED LUBE OIL PUMP	2	0.740	NSWC, PHILA		FP (OPT)	IMO PUMPS, MONROE, NC	NOV-09	JUN-10		
<b>FY 2011</b>										
<b>ST001 LSD MIDLIFE UPGRADES</b>										
PROPELLER BLADES & PLMU	1	0.964	NSWC, PHILA		FP (OPT)	ROLLS ROYCE , WALPOLE, MA	FEB-11	MAR-12		
STEERING CONTROL SYSTEM	2	0.690	NSWC, PHILA		FP (OPT)	HENSCHEL, NEWBURYPORT, MA	FEB-11	JAN-12		
A/C PLANT (LSD 44 - 52)	2	0.450	NSWC, PHILA		FP (OPT)	YORK MARINE, YORK, PA	FEB-11	FEB-12		
30 TON DECK CRANE CONTROL SYS	1	1.522	NSWC, PHILA		FP (OPT)	ROCKWELL, MILWAUKEE, WI	MAR-11	MAR-12		
LOW PRESSURE AIR COMPRESSOR	1	0.656	NSWC, PHILA		FP (OPT)	RIX, BENECIA, CA	APR-11	FEB-12		
RO & GENERATORS	2	10.750	NSWC, PHILA		FP (OPT)	AQUA-CHEM, KNOXVILLE, TN	FEB-11	FEB-12		
CANNED LUBE OIL PUMP	2	0.760	NSWC, PHILA		FP (OPT)	IMO PUMPS, MONROE, NC	APR-11	FEB-12		
<b>FY 2012</b>										
<b>ST001 LSD MIDLIFE UPGRADES</b>										
PROPELLER BLADES & PLMU	3	0.969	NSWC, PHILA		FP (OPT)	ROLLS ROYCE, WALPOLE, MA	JAN-12	FEB-13		
STEERING CONTROL SYSTEM	3	0.717	NSWC, PHILA		FP (OPT)	HENSCHEL, NEWBURYPORT, MA	DEC-11	SEP-12		
A/C PLANT (LSD 44 - 52)	3	0.472	NSWC, PHILA		FP (OPT)	YORK MARINE, YORK, PA	DEC-11	SEP-12		
LOW PRESSURE AIR COMPRESSOR	1	0.669	NSWC, PHILA		FP (OPT)	RIX, BENECIA, CA	APR-12	FEB-13		
RO & GENERATORS	3	10.905	NSWC, PHILA		FP (OPT)	AQUA-CHEM, KNOXVILLE, TN	DEC-11	SEP-12		
CANNED LUBE OIL PUMP	1	0.780	NSWC, PHILA		FP (OPT)	IMO PUMPS, MONROE, NC	APR-12	FEB-13		

**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 five year payback period is expected.

**DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:**

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<i>FINANCIAL PLAN( IN MILLIONS)</i>																				
<i>RDT&amp;E</i>																				
<b>PROCUREMENT</b>																				
MODIFICATION KITS																				
MODIFICATION KITS - UNIT COST																				
MODIFICATION NONRECURRING																				
EQUIPMENT	1	3.2			1	1.5			2	3.3									4	8.0
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	AP	0.3	AP	0.5	1	1.7	1	2.0	AP	1.2	2	4.7							4	10.4
<b>TOTAL PROCUREMENT</b>		3.5		0.5		3.2		2.0		4.5		4.7								18.4

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED LSD MIDLIFE UPGRADES 30 TON DECK CRANE CONTROL SYS	MODIFICATION TITLE: LSD MIDLIFE
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYD/COMP

ADMINISTRATIVE LEADTIME: 6 Months      PRODUCTION LEADTIME: 12 Months

CONTRACT DATES:	FY 2010:	FY 2011:	MAR-11	FY 2012:	
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DELIVERY DATES:	FY 2010:	FY 2011:	MAR-12	FY 2012:	
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	AP	0.3	AP	0.5	1	1.3													1
FY 2010 EQUIPMENT																				
FY 2011 EQUIPMENT					AP	0.4	1	2.0											1	2.4
FY 2012 EQUIPMENT																				
FY 2013 EQUIPMENT									AP	1.2	2	4.7							2	5.9
FY 2014 EQUIPMENT																				
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	4
Out	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	4

Remarks: Total requirement is 4. Congressional Add Funds procured 1 in PY.

**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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN( IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<b>PROCUREMENT</b>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	3	3.2																		3	3.2
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	2	8.3	1	5.7																3	14.0
<b>TOTAL PROCUREMENT</b>		11.5		5.7																	17.2

CLASSIFICATION: UNCLASSIFIED February 2011

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED LSD MIDLIFE UPGRADES A/C PLANT (LSD 41 - 43)	MODIFICATION TITLE: LSD MIDLIFE
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYD/COMP

ADMINISTRATIVE LEADTIME: 6 Months      PRODUCTION LEADTIME: 4-6 Months

CONTRACT DATES:	FY 2010:	FY 2011:	FY 2012:	
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DELIVERY DATES:	FY 2010:	FY 2011:	FY 2012:	
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	2	8.3	1	5.7															3
FY 2010 EQUIPMENT																				
FY 2011 EQUIPMENT																				
FY 2012 EQUIPMENT																				
FY 2013 EQUIPMENT																				
FY 2014 EQUIPMENT																				
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
In	2	0	0	1	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	3
Out	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3

Remarks:



**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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
<i>FINANCIAL PLAN( IN MILLIONS)</i>																						
<i>RDT&amp;E</i>																						
<b>PROCUREMENT</b>																						
MODIFICATION KITS																						
MODIFICATION KITS - UNIT COST																						
MODIFICATION NONRECURRING																						
EQUIPMENT	2	1.7	2	1.3	2	0.9	3	1.4	2	1.0										11	6.3	
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
NON FMP INSTALL							2	4.1													2	4.1
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST	1	5.6	1	6.8	2	11.0	2	11.6	1	6.0	2	12.0									9	53.0
<b>TOTAL PROCUREMENT</b>		7.3		8.1		11.9		17.1		7.0		12.0										63.4

CLASSIFICATION: UNCLASSIFIED February 2011

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

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

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYD/COMP

ADMINISTRATIVE LEADTIME: 5 Months PRODUCTION LEADTIME: 9-12 Months

CONTRACT DATES: FY 2010: JAN-10 FY 2011: FEB-11 FY 2012: DEC-11

DELIVERY DATES: FY 2010: JAN-11 FY 2011: FEB-12 FY 2012: SEP-12

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	1	5.6	1	4.8															2
FY 2010 EQUIPMENT			AP	2.0	2	10.0													2	12.0
FY 2011 EQUIPMENT					AP	1.0	2	10.4											2	11.4
FY 2012 EQUIPMENT							AP	1.2	1	5.4									1	6.6
FY 2013 EQUIPMENT									AP	0.6	2	12.0							2	12.6
FY 2014 EQUIPMENT																				
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																				

**INSTALLATION SCHEDULE**

	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	1	0	0	0	1	0	1	0	1	0	2	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	9
Out	1	0	0	0	0	0	0	0	1	0	1	0	1	0	2	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	9

Remarks: Installation costs differ slightly between LSD 41 and LSD 49 class ships.

**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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN( IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<u>PROCUREMENT</u>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	5	3.3	2	1.5	2	1.5	1	0.8	2	1.6										12	8.7
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
NON FMP INSTALL																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	3	3.4	2	1.1	2	1.1	2	1.1	1	0.7	2	3.0								12	10.4
<u>TOTAL PROCUREMENT</u>		6.7		2.6		2.6		1.9		2.3		3.0									19.1

CLASSIFICATION: UNCLASSIFIED February 2011

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED: LSD MIDLIFE UPGRADES CANNED LUBE OIL PUMP  
 MODIFICATION TITLE: LSD MIDLIFE

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 4 Months      PRODUCTION LEADTIME: 7-10 Months

CONTRACT DATES:      FY 2010: NOV-09      FY 2011: APR-11      FY 2012: APR-12

DELIVERY DATES:      FY 2010: JUN-10      FY 2011: FEB-12      FY 2012: FEB-13

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	3	3.4	2	0.9															5
FY 2010 EQUIPMENT			AP	0.2	2	0.9													2	1.1
FY 2011 EQUIPMENT					AP	0.2	2	0.9											2	1.1
FY 2012 EQUIPMENT							AP	0.2	1	0.5									1	0.7
FY 2013 EQUIPMENT									AP	0.2	2	3.0							2	3.2
FY 2014 EQUIPMENT																				
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																				

**INSTALLATION SCHEDULE**

	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
In	3	0	0	1	1	0	1	0	1	0	2	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	12
Out	2	0	1	0	0	0	0	1	1	0	1	0	1	0	2	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	12	

Remarks: Total requirement is 12. Congressional Add Funds procured 5 and installed 3 in PY.

**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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN( IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<b>PROCUREMENT</b>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	4	3.8	2	1.3	1	0.7	1	0.7												8	6.5
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	3	5.5	2	3.0	1	1.0	1	1.0	1	0.8										8	11.3
<b>TOTAL PROCUREMENT</b>		9.3		4.3		1.7		1.7		0.8											17.8

CLASSIFICATION: UNCLASSIFIED February 2011

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED: LSD MIDLIFE UPGRADES LOW PRESSURE AIR COMPRESSOR  
 MODIFICATION TITLE: LSD MIDLIFE

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYD/COMP

ADMINISTRATIVE LEADTIME: 5 Months PRODUCTION LEADTIME: 10 Months

CONTRACT DATES: FY 2010: JAN-10 FY 2011: APR-11 FY 2012: APR-12

DELIVERY DATES: FY 2010: NOV-10 FY 2011: FEB-12 FY 2012: FEB-13

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS	3	5.5	1	1.5															4	7.0
FY 2010 EQUIPMENT			1	1.5	1	0.8													2	2.3
FY 2011 EQUIPMENT					AP	0.2	1	0.8											1	1.0
FY 2012 EQUIPMENT							AP	0.2	1	0.8									1	1.0
FY 2013 EQUIPMENT																				
FY 2014 EQUIPMENT																				
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																				

**INSTALLATION SCHEDULE**

	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
In	3	0	0	1	1	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Out	2	0	1	0	0	0	0	1	1	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	8	

Remarks: 1 unit equates to 1 shipset which is 3 LPAC.

**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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	<i>FINANCIAL PLAN( IN MILLIONS)</i>																				
<i>RDT&amp;E</i>																					
<b>PROCUREMENT</b>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	3	3.3	3	2.9	1	1.0	3	2.9	1	1.2										11	11.3
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
NON FMP SHORE SITE UNITS								2													2
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	1	2.4	2	4.6	2	0.7	2	1.0	1	0.4	1	0.3								9	9.4
<b>TOTAL PROCUREMENT</b>		5.7		7.5		1.7		3.9		1.6		0.3									20.7

CLASSIFICATION: UNCLASSIFIED February 2011

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEM AFFECTED: LSD MIDLIFE UPGRADES PROPELLER BLADES & PLMU  
 MODIFICATION TITLE: LSD MIDLIFE

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYD/COMP

ADMINISTRATIVE LEADTIME: 5 Months PRODUCTION LEADTIME: 13 Months

CONTRACT DATES: FY 2010: NOV-09 FY 2011: FEB-11 FY 2012: JAN-12

DELIVERY DATES: FY 2010: DEC-10 FY 2011: MAR-12 FY 2012: FEB-13

(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	PRIOR YEARS	1	2.4	2	4.5																3
FY 2010 EQUIPMENT			AP	0.1	2	0.5	1	0.5												3	1.1
FY 2011 EQUIPMENT					AP	0.2	1	0.4												1	0.6
FY 2012 EQUIPMENT							AP	0.1	1	0.3										1	0.4
FY 2013 EQUIPMENT									AP	0.1	1	0.3								1	0.4
FY 2014 EQUIPMENT																					
FY 2015 EQUIPMENT																					
FY 2016 EQUIPMENT																					
TO COMPLETE																					

**INSTALLATION SCHEDULE**

	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL	
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
In	1	0	0	1	1	0	1	0	1	0	2	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Out	1	0	0	0	0	0	0	1	1	0	1	0	1	0	2	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	9	

Remarks: Propeller Blades must be installed in the first two months of the availability when ship is in drydock. Blades and PLMU required for 9 remaining ships. 3 Ships were completed by Congressional plus-up funding in OPN 0981 budget. Cost differ slightly between LSD 41 and LSD 49 class ships.



**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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN( IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<b>PROCUREMENT</b>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	5	52.1	2	21.4	2	21.5	3	32.7	2	24.8									14	152.5	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
NON FMP INSTALL							2	13.5											2	13.5	
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	3	86.8	2	59.2	2	57.2	2	58.9	1	28.4	2	60.3							12	350.8	
<b>TOTAL PROCUREMENT</b>		138.9		80.6		78.7		105.1		53.2		60.3									516.8

CLASSIFICATION: UNCLASSIFIED February 2011

**EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)**

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

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 5 Months      PRODUCTION LEADTIME: 9-12 Months

CONTRACT DATES:	FY 2010:	MAR-10	FY 2011:	FEB-11	FY 2012:	DEC-11
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DELIVERY DATES:	FY 2010:	MAR-11	FY 2011:	FEB-12	FY 2012:	SEP-12
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(\$ in Millions)

COST	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS	3	86.8	2	49.0															5
FY 2010 EQUIPMENT			AP	10.2	2	47.1													2	57.3
FY 2011 EQUIPMENT					AP	10.1	2	52.0											2	62.1
FY 2012 EQUIPMENT							AP	6.9	1	24.0									1	30.9
FY 2013 EQUIPMENT									AP	4.4	2	60.3							2	64.7
FY 2014 EQUIPMENT																				
FY 2015 EQUIPMENT																				
FY 2016 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE

	FY 2009	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL		
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
In	3	0	0	1	1	0	1	0	1	0	2	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Out	2	0	1	0	0	0	0	1	1	0	1	0	1	0	2	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	12	

Remarks: FY10 RO & Generator procurements: 1 unit under contract March 10; 1 June 10.

**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 its 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 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<i>FINANCIAL PLAN( IN MILLIONS)</i>																					
<i>RDT&amp;E</i>																					
<b>PROCUREMENT</b>																					
MODIFICATION KITS																					
MODIFICATION KITS - UNIT COST																					
MODIFICATION NONRECURRING																					
EQUIPMENT	5	5.6	2	1.3	2	1.4	3	2.1	2	1.6									14	12.0	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
NON FMP SHORE SITE UNITS							2	4.1											2	4.1	
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	3	11.3	2	5.6	2	5.5	2	5.5	1	2.6	2	5.6							12	36.1	
<b><i>TOTAL PROCUREMENT</i></b>		16.9		6.9		6.9		11.7		4.2		5.6									52.2

CLASSIFICATION: UNCLASSIFIED															February 2011																											
EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)																																										
MODELS OF SYSTEM AFFECTED LSD MIDLIFE UPGRADES STEERING CONTROL SYSTEM															MODIFICATION TITLE: LSD MIDLIFE																											
INSTALLATION INFORMATION:																																										
METHOD OF IMPLEMENTATION:															SHIPYD/COMP																											
ADMINISTRATIVE LEADTIME:										4 Months					PRODUCTION LEADTIME:										9-12 Months																	
CONTRACT DATES:										FY 2010:					JAN-10					FY 2011:					FEB-11					FY 2012:					DEC-11							
DELIVERY DATES:										FY 2010:					JAN-11					FY 2011:					JAN-12					FY 2012:					SEP-12							
(\$ in Millions)																																										
COST															Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL									
															Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$						
PRIOR YEARS															3	11.3	2	2.8																			5	14.1				
FY 2010 EQUIPMENT																	AP	2.8	2	2.8																			2	5.6		
FY 2011 EQUIPMENT																			AP	2.7	2	2.8																		2	5.5	
FY 2012 EQUIPMENT																					AP	2.7	1	1.4																1	4.1	
FY 2013 EQUIPMENT																							AP	1.2	2	5.6														2	6.8	
FY 2014 EQUIPMENT																																										
FY 2015 EQUIPMENT																																										
FY 2016 EQUIPMENT																																										
TO COMPLETE																																										
INSTALLATION SCHEDULE																																										
		FY 2009				FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC		TOTAL						
		& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4												
In		3	0	0	1	1	0	1	0	1	0	2	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0		0									
Out		3	0	0	0	0	0	0	1	1	0	1	0	1	0	2	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0		0									
Remarks: Installation costs differ slightly between LSD 41 and LSD 49 class.																																										