

UNCLASSIFIED

**Department of Defense  
Fiscal Year (FY) 2014 President's Budget Submission**

April 2013



**Navy**

*Justification Book Volume 1 of 4*

***Other Procurement, Navy***

**Budget Activity 01**

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Navy • President's Budget Submission FY 2014 • Procurement

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## Department of Defense Appropriations Act, 2014

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### Other Procurement, Navy

For procurement, production, and modernization of support equipment and materials not otherwise provided for, Navy ordnance (except ordnance for new aircraft, new ships, and ships authorized for conversion); the purchase of passenger motor vehicles for replacement only; 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, \$6,310,257,000, to remain available for obligation until September 30, 2016 of which \$8,971,000 shall be available for the Navy Reserve.

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Department of the Navy  
 FY 2014 President's Budget  
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 Total Obligational Authority  
 (Dollars in Thousands)

28 Feb 2013

Appropriation -----	FY 2012 (Base & OCO) -----	FY 2013 Base Request with CR Adj* -----	FY 2013 OCO Request with CR Adj* -----	Emergency Disaster Relief Act of 2013 -----	FY 2013 Total Request with CR Adj* -----
Other Procurement, Navy	6,260,555	5,990,224	98,882		6,089,106
Total Department of the Navy	6,260,555	5,990,224	98,882		6,089,106

P-1C: FY 2014 President's Budget (Published Version), as of February 28, 2013 at 15:34:17

\* Reflects the FY 2013 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  
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Appropriation -----	FY 2014 Base -----
Other Procurement, Navy	6,310,257
Total Department of the Navy	6,310,257

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## Appropriation: Other Procurement, Navy

Budget Activity	FY 2012 (Base & OCO)	FY 2013 Base Request with CR Adj*	FY 2013 OCO Request with CR Adj*	Emergency Disaster Relief Act of 2013	FY 2013 Total Request with CR Adj*
-----	-----	-----	-----	-----	-----
01. Ships Support Equipment	2,324,077	2,031,882			2,031,882
02. Communications & Electronics Equip	1,967,184	2,163,239	3,603		2,166,842
03. Aviation Support Equipment	416,767	440,429	58,200		498,629
04. Ordnance Support Equipment	671,700	645,465			645,465
05. Civil Engineering Support Equip	91,511	83,519	24,756		108,275
06. Supply Support Equipment	65,614	62,877			62,877
07. Personnel & Command Support Equip	517,604	491,249	12,323		503,572
08. Spares and Repair Parts	206,098	250,718			250,718
20. Undistributed		-179,154			-179,154
Total Other Procurement, Navy	6,260,555	5,990,224	98,882		6,089,106

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Department of the Navy  
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Total Obligational Authority  
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28 Feb 2013

## Appropriation: Other Procurement, Navy

Budget Activity -----	FY 2014 Base -----
01. Ships Support Equipment	1,685,740
02. Communications & Electronics Equip	2,290,055
03. Aviation Support Equipment	502,935
04. Ordnance Support Equipment	787,116
05. Civil Engineering Support Equip	77,018
06. Supply Support Equipment	48,966
07. Personnel & Command Support Equip	601,193
08. Spares and Repair Parts	317,234
20. Undistributed	
Total Other Procurement, Navy	6,310,257

Department of the Navy  
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Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2012 (Base & OCO)		FY 2013 Base Request with CR Adj*		FY 2013 OCO Request with CR Adj*		Emergency Disaster Relief Act of 2013		FY 2013 Total Request with CR Adj*		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Ships Support Equipment													
-----													
Ship Propulsion Equipment													
1	LM-2500 Gas Turbine	A		13,760		10,658						10,658	U
2	Allison 501k Gas Turbine	A		8,643		8,469						8,469	U
3	Hybrid Electric Drive (HED)												U
Generators													
4	Surface Combatant HM&E	A											U
Navigation Equipment													
5	Other Navigation Equipment	A		20,582		23,392						23,392	U
Periscopes													
6	Sub Periscopes & Imaging Equip	A		64,033		53,809						53,809	U
Other Shipboard Equipment													
7	DDG Mod	A		126,373		452,371						452,371	U
8	Firefighting Equipment	A		17,064		16,958						16,958	U
9	Command and Control Switchboard	A		3,049		2,492						2,492	U
10	LHA/LHD Midlife	A											U
11	LCC 19/20 Extended Service Life Program	A											U
12	Pollution Control Equipment	B		22,210		20,707						20,707	U

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Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2014 Base Quantity	S e c t o r C o s t
Budget Activity 01: Ships Support Equipment				
Ship Propulsion Equipment				
1	LM-2500 Gas Turbine	A	10,180	U
2	Allison 501k Gas Turbine	A	5,536	U
3	Hybrid Electric Drive (HED)		16,956	U
Generators				
4	Surface Combatant HM&E	A	19,782	U
Navigation Equipment				
5	Other Navigation Equipment	A	39,509	U
Periscopes				
6	Sub Periscopes & Imaging Equip	A	52,515	U
Other Shipboard Equipment				
7	DDG Mod	A	285,994	U
8	Firefighting Equipment	A	14,389	U
9	Command and Control Switchboard	A	2,436	U
10	LHA/LHD Midlife	A	12,700	U
11	LCC 19/20 Extended Service Life Program	A	40,329	U
12	Pollution Control Equipment	B	19,603	U

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Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2012 (Base & OCO)		FY 2013 Base Request with CR Adj*		FY 2013 OCO Request with CR Adj*		Emergency Disaster Relief Act of 2013		FY 2013 Total Request with CR Adj*		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
13	Submarine Support Equipment	A		14,122		12,046						12,046	U
14	Virginia Class Support Equipment	A		93,487		79,870						79,870	U
15	LCS Class Support Equipment					19,865						19,865	U
16	Submarine Batteries			42,191		41,522						41,522	U
17	LPD Class Support Equipment					30,543						30,543	U
18	Strategic Platform Support Equip	A		25,048		16,257						16,257	U
19	DSSP Equipment	A		2,594		3,630						3,630	U
20	CG Modernization	A		557,503		101,000						101,000	U
21	LCAC	A				16,645						16,645	U
22	Underwater Eod Programs			17,499		35,446						35,446	U
23	Items Less Than \$5 Million	A		94,963		65,998						65,998	U
24	Chemical Warfare Detectors	A		5,494		4,359						4,359	U
25	Submarine Life Support System	A		13,364		10,218						10,218	U
	Reactor Plant Equipment												
26	Reactor Power Units	A		435,055		286,859						286,859	U
27	Reactor Components	A		271,600		278,503						278,503	U
	Ocean Engineering												
28	Diving and Salvage Equipment	A		9,644		8,998						8,998	U

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Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2014 Base Quantity	S e c t o r C o s t
----	-----	-----	-----	-----
13	Submarine Support Equipment	A	8,678	U
14	Virginia Class Support Equipment	A	74,209	U
15	LCS Class Support Equipment		47,078	U
16	Submarine Batteries		37,000	U
17	LPD Class Support Equipment		25,053	U
18	Strategic Platform Support Equip	A	12,986	U
19	DSSP Equipment	A	2,455	U
20	CG Modernization	A	10,539	U
21	LCAC	A	14,431	U
22	Underwater Eod Programs		36,700	U
23	Items Less Than \$5 Million	A	119,902	U
24	Chemical Warfare Detectors	A	3,678	U
25	Submarine Life Support System	A	8,292	U
	Reactor Plant Equipment			
26	Reactor Power Units	A		U
27	Reactor Components	A	286,744	U
	Ocean Engineering			
28	Diving and Salvage Equipment	A	8,780	U

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Line No	Item Nomenclature	Ident Code	FY 2012 (Base & OCO)		FY 2013 Base Request with CR Adj*		FY 2013 OCO Request with CR Adj*		Emergency Disaster Relief Act of 2013		FY 2013 Total Request with CR Adj*		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Small Boats													
29	Standard Boats	A		37,253		30,131						30,131	U
Training Equipment													
30	Other Ships Training Equipment	A		29,885		29,772						29,772	U
Production Facilities Equipment													
31	Operating Forces Ipe	A		55,905		64,346						64,346	U
Other Ship Support													
32	Nuclear Alterations	A		144,175		154,652						154,652	U
33	LCS Common Mission Modules Equipment			65,848		31,319						31,319	U
34	LCS MCM Mission Modules					38,392						38,392	U
35	LCS SUW Mission Modules					32,897						32,897	U
Logistic Support													
36	LSD Midlife			132,733		49,758						49,758	U
Total Ships Support Equipment				2,324,077		2,031,882						2,031,882	
Budget Activity 02: Communications & Electronics Equip													
Ship Radars													
37	Radar Support	A		10,618									U
Ship Sonars													
38	SPQ-9B Radar	A		18,236		19,777						19,777	U

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Line No	Item Nomenclature	Ident Code	FY 2014 Base Quantity	S e c t o r C o s t
----	-----	----	-----	----
	Small Boats			
29	Standard Boats	A	36,452	U
	Training Equipment			
30	Other Ships Training Equipment	A	36,145	U
	Production Facilities Equipment			
31	Operating Forces Ipe	A	69,368	U
	Other Ship Support			
32	Nuclear Alterations	A	106,328	U
33	LCS Common Mission Modules Equipment		45,966	U
34	LCS MCM Mission Modules		59,885	U
35	LCS SUW Mission Modules		37,168	U
	Logistic Support			
36	LSD Midlife		77,974	U
	Total Ships Support Equipment		1,685,740	
	Budget Activity 02: Communications & Electronics Equip			
	-----			
	Ship Radars			
37	Radar Support	A		U
	Ship Sonars			
38	SPQ-9B Radar	A	27,934	U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
39	AN/SQQ-89 Surf ASW Combat System	A		71,771		89,201						89,201	U
40	SSN Acoustics	A		212,381		190,874						190,874	U
41	Undersea Warfare Support Equipment	A		25,686		17,035						17,035	U
42	Sonar Switches and Transducers	A		13,503		13,410						13,410	U
43	Electronic Warfare MILDEC	A		16,841									U
	ASW Electronic Equipment												
44	Submarine Acoustic Warfare System	A		20,503		21,489						21,489	U
45	SSTD	A		1,257		10,716						10,716	U
46	Fixed Surveillance System	A		60,141		98,896						98,896	U
47	SURTASS	A		25,547		2,774						2,774	U
48	Maritime Patrol and Reconnaissance Force	A		11,926		18,428						18,428	U
	Electronic Warfare Equipment												
49	AN/SLQ-32	A		39,902		92,270						92,270	U
	Reconnaissance Equipment												
50	Shipboard IW Exploit	A		99,447		107,060						107,060	U
51	Automated Identification System (AIS)			1,313		914						914	U
	Submarine Surveillance Equipment												
52	Submarine Support Equipment Prog	A		82,241		34,050						34,050	U

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Line No	Item Nomenclature	Ident Code	FY 2014 Base Quantity	S e c t o r C o d e
----	-----	-----	-----	-----
39	AN/SQQ-89 Surf ASW Combat System	A	83,231	U
40	SSN Acoustics	A	199,438	U
41	Undersea Warfare Support Equipment	A	9,394	U
42	Sonar Switches and Transducers	A	12,953	U
43	Electronic Warfare MILDEC	A	8,958	U
ASW Electronic Equipment				
44	Submarine Acoustic Warfare System	A	24,077	U
45	SSTD	A	11,925	U
46	Fixed Surveillance System	A	94,338	U
47	SURTASS	A	9,680	U
48	Maritime Patrol and Reconnaissance Force	A	18,130	U
Electronic Warfare Equipment				
49	AN/SLQ-32	A	203,375	U
Reconnaissance Equipment				
50	Shipboard IW Exploit	A	123,656	U
51	Automated Identification System (AIS)		896	U
Submarine Surveillance Equipment				
52	Submarine Support Equipment Prog	A	49,475	U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Other Ship Electronic Equipment													
53	Cooperative Engagement Capability	B		19,332		27,881						27,881	U
54	Trusted Information System (TIS)			426		448						448	U
55	Naval Tactical Command Support System (NTCSS)	A		32,778		35,732						35,732	U
56	ATDLS	A		1,026									U
57	Navy Command and Control System (NCCS)			7,896		9,533						9,533	U
58	Minesweeping System Replacement	A		33,221		60,111						60,111	U
59	Shallow Water MCM	B		1,045		6,950						6,950	U
60	Navstar GPS Receivers (SPACE)	A		11,847		9,089						9,089	U
61	American Forces Radio and TV Service	A		4,359		7,768						7,768	U
62	Strategic Platform Support Equip	A		4,133		3,614						3,614	U
Training Equipment													
63	Other Training Equipment	A		34,734		42,911						42,911	U
Aviation Electronic Equipment													
64	Matcals	A		13,368		5,861						5,861	U
65	Shipboard Air Traffic Control	B		7,394		8,362						8,362	U
66	Automatic Carrier Landing System	A		17,018		15,685						15,685	U
67	National Air Space System	B		24,581		16,919						16,919	U
68	Fleet Air Traffic Control Systems	A		7,213		6,828						6,828	U

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Line No	Item Nomenclature	Ident Code	FY 2014 Base Quantity	S e c t o r C o s t
----	-----	----	-----	----
Other Ship Electronic Equipment				
53	Cooperative Engagement Capability	B	34,692	U
54	Trusted Information System (TIS)		396	U
55	Naval Tactical Command Support System (NTCSS)	A	15,703	U
56	ATDLS	A	3,836	U
57	Navy Command and Control System (NCCS)		7,201	U
58	Minesweeping System Replacement	A	54,400	U
59	Shallow Water MCM	B	8,548	U
60	Navstar GPS Receivers (SPACE)	A	11,765	U
61	American Forces Radio and TV Service	A	6,483	U
62	Strategic Platform Support Equip	A	7,631	U
Training Equipment				
63	Other Training Equipment	A	53,644	U
Aviation Electronic Equipment				
64	Matcals	A	7,461	U
65	Shipboard Air Traffic Control	B	9,140	U
66	Automatic Carrier Landing System	A	20,798	U
67	National Air Space System	B	19,754	U
68	Fleet Air Traffic Control Systems	A	8,909	U

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Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2012 (Base & OCO)		FY 2013 Base Request with CR Adj*		FY 2013 OCO Request with CR Adj*		Emergency Disaster Relief Act of 2013		FY 2013 Total Request with CR Adj*		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
69	Landing Systems	A		7,138		7,646						7,646	U
70	ID Systems	A		31,470		35,474						35,474	U
71	Naval Mission Planning Systems	A		8,941		9,958						9,958	U
	Other Shore Electronic Equipment												
72	Deployable Joint Command & Control	A		8,657		9,064						9,064	U
73	Maritime Integrated Broadcast System			13,021		16,026						16,026	U
74	Tactical/Mobile C4I Systems	A		10,876		11,886		3,603				15,489	U
75	DCGS-N	A		12,499		11,887						11,887	U
76	CANES			78,239		341,398						341,398	U
77	RADIAC	A		6,185		8,083						8,083	U
78	CANES-Intell			73,363		79,427						79,427	U
79	GPETE	A		6,010		6,083						6,083	U
80	Integ Combat System Test Facility	A		4,430		4,495						4,495	U
81	EMI Control Instrumentation	A		4,741		4,767						4,767	U
82	Items Less Than \$5 Million	A		42,416		81,755						81,755	U
	Shipboard Communications												
83	Shipboard Tactical Communications	A		1,494									U
84	Ship Communications Automation	A		274,112		56,870						56,870	U
85	Maritime Domain Awareness (MDA)	A		24,022		1,063						1,063	U

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Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2014		S e c
			Quantity	Base Cost	
69	Landing Systems	A		13,554	U
70	ID Systems	A		38,934	U
71	Naval Mission Planning Systems	A		14,131	U
	Other Shore Electronic Equipment				
72	Deployable Joint Command & Control	A		3,249	U
73	Maritime Integrated Broadcast System			11,646	U
74	Tactical/Mobile C4I Systems	A		18,189	U
75	DCGS-N	A		17,350	U
76	CANES			340,567	U
77	RADIAC	A		9,835	U
78	CANES-Intell			59,652	U
79	GPETE	A		6,253	U
80	Integ Combat System Test Facility	A		4,963	U
81	EMI Control Instrumentation	A		4,664	U
82	Items Less Than \$5 Million	A		66,889	U
	Shipboard Communications				
83	Shipboard Tactical Communications	A			U
84	Ship Communications Automation	A		23,877	U
85	Maritime Domain Awareness (MDA)	A			U

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Line No	Item Nomenclature	Ident Code	FY 2012 (Base & OCO)		FY 2013 Base Request with CR Adj*		FY 2013 OCO Request with CR Adj*		Emergency Disaster Relief Act of 2013		FY 2013 Total Request with CR Adj*		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
86	Communications Items Under \$5M	A		26,985		28,522						28,522	U
	Submarine Communications												
87	Submarine Broadcast Support	A		11,243		4,183						4,183	U
88	Submarine Communication Equipment	A		75,198		69,025						69,025	U
	Satellite Communications												
89	Satellite Communications Systems	A		28,601		49,294						49,294	U
90	Navy Multiband Terminal (NMT)			107,242		184,825						184,825	U
	Shore Communications												
91	JCS Communications Equipment	A		2,186		2,180						2,180	U
92	Electrical Power Systems	A		1,329		1,354						1,354	U
93	Naval Shore Communications	A		2,327									U
	Cryptographic Equipment												
94	Info Systems Security Program (ISSP)	A		93,960		144,104						144,104	U
95	MIO Intel Exploitation Team	A											U
	Cryptologic Equipment												
96	Cryptologic Communications Equip	A		14,820		12,604						12,604	U
	Other Electronic Support												
97	Coast Guard Equipment	A		6,848		6,680						6,680	U

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Line No	Item Nomenclature	Ident Code	FY 2014 Base Quantity	S e c t o r C o s t
----	-----	----	-----	----
86	Communications Items Under \$5M	A	28,001	U
	Submarine Communications			
87	Submarine Broadcast Support	A	7,856	U
88	Submarine Communication Equipment	A	74,376	U
	Satellite Communications			
89	Satellite Communications Systems	A	27,381	U
90	Navy Multiband Terminal (NMT)		215,952	U
	Shore Communications			
91	JCS Communications Equipment	A	4,463	U
92	Electrical Power Systems	A	778	U
93	Naval Shore Communications	A		U
	Cryptographic Equipment			
94	Info Systems Security Program (ISSP)	A	133,530	U
95	MIO Intel Exploitation Team	A	1,000	U
	Cryptologic Equipment			
96	Cryptologic Communications Equip	A	12,251	U
	Other Electronic Support			
97	Coast Guard Equipment	A	2,893	U

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Line No	Item Nomenclature	Ident Code	FY 2012 (Base & OCO)		FY 2013 Base Request with CR Adj*		FY 2013 OCO Request with CR Adj*		Emergency Disaster Relief Act of 2013		FY 2013 Total Request with CR Adj*		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Drug Interdiction Support													
98	Other Drug Interdiction Support	A		57,147									U
Total Communications & Electronics Equip			1,967,184		2,163,239		3,603				2,166,842		
Budget Activity 03: Aviation Support Equipment													
-----													
Sonobuoys													
99	Sonobuoys - All Types	A	100,449		104,677						104,677		U
Aircraft Support Equipment													
100	Weapons Range Support Equipment	A	50,197		70,753						70,753		U
101	Expeditionary Airfields	A	55,561		8,678		58,200				66,878		U
102	Aircraft Rearming Equipment	A	4,684		11,349						11,349		U
103	Aircraft Launch & Recovery Equipment	A	19,777		82,618						82,618		U
104	Meteorological Equipment	A	30,278		18,339						18,339		U
105	DCRS/DPL	A	1,595		1,414						1,414		U
106	Aviation Life Support	A	68,246		40,475						40,475		U
107	Airborne Mine Countermeasures	A	33,515		61,552						61,552		U
108	Lamps MK III Shipboard Equipment	A	12,908		18,771						18,771		U
109	Portable Electronic Maintenance Aids		8,778		7,954						7,954		U
110	Other Aviation Support Equipment	A	30,779		10,023						10,023		U

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Line No	Item Nomenclature	Ident Code	FY 2014 Base Quantity	S e c -
	Drug Interdiction Support			
98	Other Drug Interdiction Support	A		U
	Total Communications & Electronics Equip		2,290,055	
	Budget Activity 03: Aviation Support Equipment			
	Sonobuoys			
99	Sonobuoys - All Types	A	179,927	U
	Aircraft Support Equipment			
100	Weapons Range Support Equipment	A	55,279	U
101	Expeditionary Airfields	A	8,792	U
102	Aircraft Rearming Equipment	A	11,364	U
103	Aircraft Launch & Recovery Equipment	A	59,502	U
104	Meteorological Equipment	A	19,118	U
105	DCRS/DPL	A	1,425	U
106	Aviation Life Support	A	29,670	U
107	Airborne Mine Countermeasures	A	101,554	U
108	Lamps MK III Shipboard Equipment	A	18,293	U
109	Portable Electronic Maintenance Aids		7,969	U
110	Other Aviation Support Equipment	A	5,215	U

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Line No	Item Nomenclature	Ident Code	FY 2012 (Base & OCO)		FY 2013 Base Request with CR Adj*		FY 2013 OCO Request with CR Adj*		Emergency Disaster Relief Act of 2013		FY 2013 Total Request with CR Adj*		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
111	Autonomic Logistics Information System (ALIS)					3,826						3,826	U
Total Aviation Support Equipment				416,767		440,429		58,200				498,629	
Budget Activity 04: Ordnance Support Equipment													
Ship Gun System Equipment													
112	Naval Fires Control System	A		2,044		3,472						3,472	U
113	Gun Fire Control Equipment	A		4,477		4,528						4,528	U
Ship Missile Systems Equipment													
114	NATO Seasparrow	A		8,904		8,960						8,960	U
115	RAM GMLS	A		3,128		1,185						1,185	U
116	Ship Self Defense System	B		54,324		55,371						55,371	U
117	AEGIS Support Equipment	A		42,204		81,614						81,614	U
118	Tomahawk Support Equipment	A		70,261		77,767						77,767	U
119	Vertical Launch Systems	A		732		754						754	U
120	Maritime Integrated Planning System-MIPS	A		4,666		4,965						4,965	U
FBM Support Equipment													
121	Strategic Missile Systems Equip	A		200,078		181,049						181,049	U
ASW Support Equipment													
122	SSN Combat Control Systems	A		89,214		71,316						71,316	U

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Line No	Item Nomenclature	Ident Code	FY 2014 Base Quantity	S e c t o r C o s t
----	-----	----	-----	----
111	Autonomic Logistics Information System (ALIS)		4,827	U
			-----	
	Total Aviation Support Equipment		502,935	
	Budget Activity 04: Ordnance Support Equipment			
	-----			
	Ship Gun System Equipment			
112	Naval Fires Control System	A	1,188	U
113	Gun Fire Control Equipment	A	4,447	U
	Ship Missile Systems Equipment			
114	NATO Seasparrow	A	58,368	U
115	RAM GMLS	A	491	U
116	Ship Self Defense System	B	51,858	U
117	AEGIS Support Equipment	A	59,757	U
118	Tomahawk Support Equipment	A	71,559	U
119	Vertical Launch Systems	A	626	U
120	Maritime Integrated Planning System-MIPS	A	2,779	U
	FBM Support Equipment			
121	Strategic Missile Systems Equip	A	224,484	U
	ASW Support Equipment			
122	SSN Combat Control Systems	A	85,678	U

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Line No	Item Nomenclature	Ident Code	FY 2012 (Base & OCO)		FY 2013 Base Request with CR Adj*		FY 2013 OCO Request with CR Adj*		Emergency Disaster Relief Act of 2013		FY 2013 Total Request with CR Adj*		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
123	Submarine ASW Support Equipment	A		5,228		4,018						4,018	U
124	Surface ASW Support Equipment	A		5,801		6,465						6,465	U
125	ASW Range Support Equipment	A		7,823		47,930						47,930	U
	Other Ordnance Support Equipment												
126	Explosive Ordnance Disposal Equip	B		83,580		3,579						3,579	U
127	Items Less Than \$5 Million	A		13,663		3,125						3,125	U
	Other Expendable Ordnance												
128	Anti-Ship Missile Decoy System	A		32,634		31,743						31,743	U
129	Surface Training Device Mods	A		6,254		34,174						34,174	U
130	Submarine Training Device Mods	A		36,685		23,450						23,450	U
	Total Ordnance Support Equipment			671,700		645,465						645,465	
Budget Activity 05: Civil Engineering Support Equip													
	Civil Engineering Support Equipment												
131	Passenger Carrying Vehicles	A		6,831		7,158		3,901				11,059	U
132	General Purpose Trucks	A		2,562		3,325		852				4,177	U
133	Construction & Maintenance Equip	A		24,740		8,692		2,436				11,128	U
134	Fire Fighting Equipment	A		17,987		14,533		3,798				18,331	U
135	Tactical Vehicles	B		16,787		15,330		13,394				28,724	U
136	Amphibious Equipment	A		3,235		10,803						10,803	U

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Line No	Item Nomenclature	Ident Code	FY 2014 Base Quantity	S e c t o r C o s t
----	-----	----	-----	----
123	Submarine ASW Support Equipment	A	3,913	U
124	Surface ASW Support Equipment	A	3,909	U
125	ASW Range Support Equipment	A	28,694	U
	Other Ordnance Support Equipment			
126	Explosive Ordnance Disposal Equip	B	46,586	U
127	Items Less Than \$5 Million	A	11,933	U
	Other Expendable Ordnance			
128	Anti-Ship Missile Decoy System	A	62,361	U
129	Surface Training Device Mods	A	41,813	U
130	Submarine Training Device Mods	A	26,672	U
	Total Ordnance Support Equipment		787,116	
Budget Activity 05: Civil Engineering Support Equip				
-----				
	Civil Engineering Support Equipment			
131	Passenger Carrying Vehicles	A	5,600	U
132	General Purpose Trucks	A	3,717	U
133	Construction & Maintenance Equip	A	10,881	U
134	Fire Fighting Equipment	A	14,748	U
135	Tactical Vehicles	B	5,540	U
136	Amphibious Equipment	A	5,741	U

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Line No	Item Nomenclature	Ident Code	FY 2012 (Base & OCO)		FY 2013 Base Request with CR Adj*		FY 2013 OCO Request with CR Adj*		Emergency Disaster Relief Act of 2013		FY 2013 Total Request with CR Adj*		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
137	Pollution Control Equipment	A		7,175		7,265						7,265	U
138	Items Under \$5 Million	A		11,052		15,252		375				15,627	U
139	Physical Security Vehicles	A		1,142		1,161						1,161	U
Total Civil Engineering Support Equip				91,511		83,519		24,756				108,275	
Budget Activity 06: Supply Support Equipment													
Supply Support Equipment													
140	Materials Handling Equipment	A		11,956		15,204						15,204	U
141	Other Supply Support Equipment	A		4,453		6,330						6,330	U
142	First Destination Transportation	A		6,416		6,539						6,539	U
143	Special Purpose Supply Systems	A		42,789		34,804						34,804	U
Total Supply Support Equipment				65,614		62,877						62,877	
Budget Activity 07: Personnel & Command Support Equip													
Training Devices													
144	Training Support Equipment	A		15,610		25,444						25,444	U
Command Support Equipment													
145	Command Support Equipment	A		26,590		43,165						43,165	U
146	Education Support Equipment	A		2,197		2,251						2,251	U
147	Medical Support Equipment	A		14,175		3,148						3,148	U

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Line No	Item Nomenclature	Ident Code	FY 2014 Base Quantity	S e c t o r C o s t
----	-----	----	-----	----
137	Pollution Control Equipment	A	3,852	U
138	Items Under \$5 Million	A	25,757	U
139	Physical Security Vehicles	A	1,182	U
	Total Civil Engineering Support Equip		77,018	
Budget Activity 06: Supply Support Equipment				
-----				
Supply Support Equipment				
140	Materials Handling Equipment	A	14,250	U
141	Other Supply Support Equipment	A	6,401	U
142	First Destination Transportation	A	5,718	U
143	Special Purpose Supply Systems	A	22,597	U
	Total Supply Support Equipment		48,966	
Budget Activity 07: Personnel & Command Support Equip				
-----				
Training Devices				
144	Training Support Equipment	A	22,527	U
Command Support Equipment				
145	Command Support Equipment	A	50,428	U
146	Education Support Equipment	A	2,292	U
147	Medical Support Equipment	A	4,925	U

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Line No	Item Nomenclature	Ident Code	FY 2012 (Base & OCO)		FY 2013 Base Request with CR Adj*		FY 2013 OCO Request with CR Adj*		Emergency Disaster Relief Act of 2013		FY 2013 Total Request with CR Adj*		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
149	Naval MIP Support Equipment	A		1,907		3,502						3,502	U
151	Operating Forces Support Equipment	A		21,349		15,696						15,696	U
152	C4ISR Equipment	A		24,898		4,344		3,000				7,344	U
153	Environmental Support Equipment	A		18,639		19,492						19,492	U
154	Physical Security Equipment	A		220,638		177,149		9,323				186,472	U
155	Enterprise Information Technology	A		158,202		183,995						183,995	U
	Other												
156	Cancelled Account Adjustments	A		16									U
999	Classified Programs			13,383		13,063						13,063	U
	Total Personnel & Command Support Equip			517,604		491,249		12,323				503,572	
	Budget Activity 08: Spares and Repair Parts												
	Spares and Repair Parts												
157	Spares and Repair Parts	A		206,098		250,718						250,718	U
	Total Spares and Repair Parts			206,098		250,718						250,718	

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Line No	Item Nomenclature	Ident Code	FY 2014 Base Quantity	S e c t o r C o s t
----	-----	----	-----	----
149	Naval MIP Support Equipment	A	3,202	U
151	Operating Forces Support Equipment	A	24,294	U
152	C4ISR Equipment	A	4,287	U
153	Environmental Support Equipment	A	18,276	U
154	Physical Security Equipment	A	134,495	U
155	Enterprise Information Technology	A	324,327	U
	Other			
156	Cancelled Account Adjustments	A		U
999	Classified Programs		12,140	U
	Total Personnel & Command Support Equip		601,193	
	Budget Activity 08: Spares and Repair Parts			
	-----			
	Spares and Repair Parts			
157	Spares and Repair Parts	A	317,234	U
	Total Spares and Repair Parts		317,234	

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 20: Undistributed													
-----													
Undistributed													
158	Adj to Match Continuing Resolution	A			-179,154							-179,154	U
			-----		-----		-----		-----		-----		
Total Undistributed					-179,154							-179,154	
			-----		-----		-----		-----		-----		
Total Other Procurement, Navy			6,260,555		5,990,224		98,882					6,089,106	

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Line No	Item Nomenclature	Ident Code	FY 2014 Base Quantity	S e c
Budget Activity 20: Undistributed				
Undistributed				
158	Adj to Match Continuing Resolution	A		U
Total Undistributed				
Total Other Procurement, Navy			6,310,257	

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DDG Mod	0900	7	01	09.....	Volume 1 - 93
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**Appropriation 1810N: Other Procurement, Navy  
 BA 01: Ships Support Equipment / BSA 1: Ship Propulsion Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
1	A	0110	LM-2500 Gas Turbine	-	13.760	-	10.658	-	10.180	-	0.000	-	10.180
2	A	0120	Allison 501K Gas Turbine	-	8.643	-	8.469	-	5.536	-	0.000	-	5.536
3	A	0140	Hybrid Electric Drive (HED)	-	0.000	-	0.000	-	16.956	-	0.000	-	16.956
<b>Total: Ships Support Equipment / Ship Propulsion Equipment</b>				-	22.403	-	19.127	-	32.672	-	0.000	-	32.672

**Appropriation 1810N: Other Procurement, Navy  
 BA 01: Ships Support Equipment / BSA 2: Generators**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
4	A	0200	Surface Combatant HM&E	-	0.000	-	0.000	-	19.782	-	0.000	-	19.782
<b>Total: Ships Support Equipment / Generators</b>				-	0.000	-	0.000	-	19.782	-	0.000	-	19.782

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**Appropriation 1810N: Other Procurement, Navy  
 BA 01: Ships Support Equipment / BSA 6: Navigation Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
5	A	0670	Other Navigation Equipment	-	20.582	-	23.392	-	39.509	-	0.000	-	39.509
<b>Total: Ships Support Equipment / Navigation Equipment</b>				-	20.582	-	23.392	-	39.509	-	0.000	-	39.509

**Appropriation 1810N: Other Procurement, Navy  
 BA 01: Ships Support Equipment / BSA 8: Periscopes**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
6	A	0831	Sub Periscopes & Imaging Equip	-	64.033	-	53.809	-	52.515	-	0.000	-	52.515
<b>Total: Ships Support Equipment / Periscopes</b>				-	64.033	-	53.809	-	52.515	-	0.000	-	52.515

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**Appropriation 1810N: Other Procurement, Navy**  
**BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment**

Cost (\$ in Millions)

Line#	Cost Type	Line Item #	Line Item Title	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
7	A	0900	DDG Mod	-	126.373	-	452.371	-	285.994	-	0.000	-	285.994
8	A	0910	Firefighting Equipment	-	17.064	-	16.958	-	14.389	-	0.000	-	14.389
9	A	0925	Command and Control Switchboard	-	3.049	-	2.492	-	2.436	-	0.000	-	2.436
10	A	0933	LHA/LHD Midlife	-	0.000	-	0.000	-	12.700	-	0.000	-	12.700
11	A	0934	LCC 19/20 Extended Service Life Program	-	0.000	-	0.000	-	40.329	-	0.000	-	40.329
12	A	0935	Pollution Control Equipment	-	22.210	-	20.707	-	19.603	-	0.000	-	19.603
13	A	0941	Submarine Support Equipment	-	14.122	-	12.046	-	8.678	-	0.000	-	8.678
14	A	0942	Virginia Class Support Equipment	-	93.487	-	79.870	-	74.209	-	0.000	-	74.209
15	A	0944	LCS Class Support Equipment	-	0.000	-	19.865	-	47.078	-	0.000	-	47.078
16	A	0945	Submarine Batteries	-	42.191	-	41.522	-	37.000	-	0.000	-	37.000

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**Appropriation 1810N: Other Procurement, Navy  
 BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
17	A	0946	LPD Class Support Equipment	-	0.000	-	30.543	-	25.053	-	0.000	-	25.053
18	A	0950	Strategic Platform Support Equip	-	25.048	-	16.257	-	12.986	-	0.000	-	12.986
19	A	0955	Deep Subm Sys Proj (DSSP) Equip	-	2.594	-	3.630	-	2.455	-	0.000	-	2.455
20	A	0960	CG Modernization	-	557.503	-	101.000	-	10.539	-	0.000	-	10.539
21	A	0970	LCAC	-	0.000	-	16.645	-	14.431	-	0.000	-	14.431
22	A	0977	Underwater EOD Programs	-	17.499	-	35.446	-	36.700	-	0.000	-	36.700
23	A	0981	Items less than \$5 Million	-	94.963	-	65.998	-	119.902	-	0.000	-	119.902
24	A	0989	Chemical Warfare Detectors	-	5.494	-	4.359	-	3.678	-	0.000	-	3.678
25	A	0990	Submarine Life Support System	-	13.364	-	10.218	-	8.292	-	0.000	-	8.292
<b>Total: Ships Support Equipment / Other Shipboard Equipment</b>				-	1,034.961	-	929.927	-	776.452	-	0.000	-	776.452

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**Appropriation 1810N: Other Procurement, Navy  
 BA 01: Ships Support Equipment / BSA 10: Reactor Plant Equipment**

				Cost (\$ in Millions)									
Line#	Cost Type	Line Item #	Line Item Title	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
26	A	1010	Reactor Power Units	-	435.055	-	286.859	-	0.000	-	0.000	-	0.000
27	A	1020	Reactor Components	-	271.600	-	278.503	-	286.744	-	0.000	-	286.744
<b>Total: Ships Support Equipment / Reactor Plant Equipment</b>				-	706.655	-	565.362	-	286.744	-	0.000	-	286.744

**Appropriation 1810N: Other Procurement, Navy  
 BA 01: Ships Support Equipment / BSA 11: Ocean Engineering**

				Cost (\$ in Millions)									
Line#	Cost Type	Line Item #	Line Item Title	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
28	A	1130	Diving and Salvage Equipment	-	9.644	-	8.998	-	8.780	-	0.000	-	8.780

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**Appropriation 1810N: Other Procurement, Navy**  
**BA 01: Ships Support Equipment / BSA 11: Ocean Engineering**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
<b>Total: Ships Support Equipment / Ocean Engineering</b>				-	9.644	-	8.998	-	8.780	-	0.000	-	8.780

**Appropriation 1810N: Other Procurement, Navy**  
**BA 01: Ships Support Equipment / BSA 12: Small Boats**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
29	A	1210	Standard Boats	-	37.253	-	30.131	-	36.452	-	0.000	-	36.452
<b>Total: Ships Support Equipment / Small Boats</b>				-	37.253	-	30.131	-	36.452	-	0.000	-	36.452

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**Appropriation 1810N: Other Procurement, Navy  
 BA 01: Ships Support Equipment / BSA 13: Training Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
30	A	1320	Other Ships Training Equipment	-	29.885	-	29.772	-	36.145	-	0.000	-	36.145
<b>Total: Ships Support Equipment / Training Equipment</b>				-	29.885	-	29.772	-	36.145	-	0.000	-	36.145

**Appropriation 1810N: Other Procurement, Navy  
 BA 01: Ships Support Equipment / BSA 14: Production Facilities Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
31	A	1445	Operating Forces IPE	-	55.905	-	64.346	-	69.368	-	0.000	-	69.368
<b>Total: Ships Support Equipment / Production Facilities Equipment</b>				-	55.905	-	64.346	-	69.368	-	0.000	-	69.368

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**Appropriation 1810N: Other Procurement, Navy  
 BA 01: Ships Support Equipment / BSA 15: Other Ship Support**

Cost (\$ in Millions)

Line#	Cost Type	Line Item #	Line Item Title	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
32	A	1480	Nuclear Alterations	-	144.175	-	154.652	-	106.328	-	0.000	-	106.328
33	A	1600	LCS Common Mission Modules Equipment	-	65.848	-	31.319	-	45.966	-	0.000	-	45.966
34	A	1601	LCS MCM Mission Modules	-	0.000	-	38.392	-	59.885	-	0.000	-	59.885
35	A	1603	LCS SUW Mission Modules	-	0.000	-	32.897	-	37.168	-	0.000	-	37.168
<b>Total: Ships Support Equipment / Other Ship Support</b>				-	210.023	-	257.260	-	249.347	-	0.000	-	249.347

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**Appropriation 1810N: Other Procurement, Navy  
 BA 01: Ships Support Equipment / BSA 16: Logistic Support**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
36	A	1610	LSD Midlife	-	132.733	-	49.758	-	77.974	-	0.000	-	77.974
<b>Total: Ships Support Equipment / Logistic Support</b>				-	132.733	-	49.758	-	77.974	-	0.000	-	77.974

**Appropriation 1810N: Other Procurement, Navy  
 BA 02: Communications & Electronics Equip / BSA 1: Ship Radars**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
37	A	2040	Radar Support	-	10.618	-	0.000	-	0.000	-	0.000	-	0.000
<b>Total: Communications &amp; Electronics Equip / Ship Radars</b>				-	10.618	-	0.000	-	0.000	-	0.000	-	0.000

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**Appropriation 1810N: Other Procurement, Navy**  
**BA 02: Communications & Electronics Equip / BSA 2: Ship Sonars**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
38	A	2026	SPQ-9B Radar	-	18.236	-	19.777	-	27.934	-	0.000	-	27.934
39	A	2136	AN/SQQ-89 Surf ASW Cmbt Sys	-	71.771	-	89.201	-	83.231	-	0.000	-	83.231
40	A	2147	SSN Acoustics	-	212.381	-	190.874	-	199.438	-	0.000	-	199.438
41	A	2176	Undersea Warfare Support Equipment	-	25.686	-	17.035	-	9.394	-	0.000	-	9.394
42	A	2181	Sonar Switches and Transducers	-	13.503	-	13.410	-	12.953	-	0.000	-	12.953
43	A	2188	Electronic Warfare MILDEC	-	16.841	-	0.000	-	8.958	-	0.000	-	8.958
<b>Total: Communications &amp; Electronics Equip / Ship Sonars</b>				-	358.418	-	330.297	-	341.908	-	0.000	-	341.908

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**Appropriation 1810N: Other Procurement, Navy  
 BA 02: Communications & Electronics Equip / BSA 3: Asw Electronic Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
44	A	2210	Submarine Acoustic Warfare System	-	20.503	-	21.489	-	24.077	-	0.000	-	24.077
45	A	2213	Surface Ship Torpedo Def (SSTD)	-	1.257	-	10.716	-	11.925	-	0.000	-	11.925
46	A	2225	Fixed Surveillance System	-	60.141	-	98.896	-	94.338	-	0.000	-	94.338
47	A	2237	SURTASS	-	25.547	-	2.774	-	9.680	-	0.000	-	9.680
48	A	2246	Maritime Patrol and Reconnaissance Force	-	11.926	-	18.428	-	18.130	-	0.000	-	18.130
<b>Total: Communications &amp; Electronics Equip / Asw Electronic Equipment</b>				-	119.374	-	152.303	-	158.150	-	0.000	-	158.150

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**Appropriation 1810N: Other Procurement, Navy**  
**BA 02: Communications & Electronics Equip / BSA 4: Electronic Warfare Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
49	A	2312	AN/SLQ-32	-	39.902	-	92.270	-	203.375	-	0.000	-	203.375
<b>Total: Communications &amp; Electronics Equip / Electronic Warfare Equipment</b>				-	39.902	-	92.270	-	203.375	-	0.000	-	203.375

**Appropriation 1810N: Other Procurement, Navy**  
**BA 02: Communications & Electronics Equip / BSA 5: Reconnaissance Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
50	A	2360	Shipboard IW Exploit	-	99.447	-	107.060	-	123.656	-	0.000	-	123.656
51	A	2361	Automatic Identification System (AIS)	-	1.313	-	0.914	-	0.896	-	0.000	-	0.896

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**Appropriation 1810N: Other Procurement, Navy  
 BA 02: Communications & Electronics Equip / BSA 5: Reconnaissance Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
<b>Total: Communications &amp; Electronics Equip / Reconnaissance Equipment</b>				-	100.760	-	107.974	-	124.552	-	0.000	-	124.552

**Appropriation 1810N: Other Procurement, Navy  
 BA 02: Communications & Electronics Equip / BSA 6: Submarine Surveillance Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
52	A	2560	Submarine Supt Equip Prog	-	82.241	-	34.050	-	49.475	-	0.000	-	49.475
<b>Total: Communications &amp; Electronics Equip / Submarine Surveillance Equipment</b>				-	82.241	-	34.050	-	49.475	-	0.000	-	49.475

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**Appropriation 1810N: Other Procurement, Navy  
 BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
53	A	2606	Cooperative Engagement Capability	-	19.332	-	27.881	-	34.692	-	0.000	-	34.692
54	A	2608	Trusted Information System (TIS)	-	0.426	-	0.448	-	0.396	-	0.000	-	0.396
55	A	2611	Naval Tact Cmd Supt Sys (NTCSS)	-	32.778	-	35.732	-	15.703	-	0.000	-	15.703
56	A	2614	Adv Tact Data Link Sys (ATDLS)	-	1.026	-	0.000	-	3.836	-	0.000	-	3.836
57	A	2618	Navy Command and Control System (NCCS)	-	7.896	-	9.533	-	7.201	-	0.000	-	7.201
58	A	2622	Minesweeping System Replacement	-	33.221	-	60.111	-	54.400	-	0.000	-	54.400
59	A	2624	Shallow Water Mine CM Ship	-	1.045	-	6.950	-	8.548	-	0.000	-	8.548
60	A	2657	NAVSTAR GPS Receivers (Space)	-	11.847	-	9.089	-	11.765	-	0.000	-	11.765
61	A	2666	American Forces Radio and TV Service (AFRTS)	-	4.359	-	7.768	-	6.483	-	0.000	-	6.483

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**Appropriation 1810N: Other Procurement, Navy**  
**BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
62	A	2676	Strategic Platform Support Equip	-	4.133	-	3.614	-	7.631	-	0.000	-	7.631
<b>Total: Communications &amp; Electronics Equip / Other Ship Electronic Equipment</b>				-	116.063	-	161.126	-	150.655	-	0.000	-	150.655

**Appropriation 1810N: Other Procurement, Navy**  
**BA 02: Communications & Electronics Equip / BSA 8: Training Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
63	A	2762	Other Training Equipment	-	34.734	-	42.911	-	53.644	-	0.000	-	53.644
<b>Total: Communications &amp; Electronics Equip / Training Equipment</b>				-	34.734	-	42.911	-	53.644	-	0.000	-	53.644

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**Appropriation 1810N: Other Procurement, Navy  
 BA 02: Communications & Electronics Equip / BSA 9: Aviation Electronic Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
64	A	2815	MATCAL5	-	13.368	-	5.861	-	7.461	-	0.000	-	7.461
65	A	2831	Shipboard Air Traffic Control	-	7.394	-	8.362	-	9.140	-	0.000	-	9.140
66	A	2832	Automatic Carrier Landing System	-	17.018	-	15.685	-	20.798	-	0.000	-	20.798
67	A	2840	National Air Space System	-	24.581	-	16.919	-	19.754	-	0.000	-	19.754
68	A	2845	Fleet Air Traffic Control Systems	-	7.213	-	6.828	-	8.909	-	0.000	-	8.909
69	A	2846	Landing Systems	-	7.138	-	7.646	-	13.554	-	0.000	-	13.554
70	A	2851	ID Systems	-	31.470	-	35.474	-	38.934	-	0.000	-	38.934
71	A	2876	Naval Mission Planning Systems	-	8.941	-	9.958	-	14.131	-	0.000	-	14.131
<b>Total: Communications &amp; Electronics Equip / Aviation Electronic Equipment</b>				-	117.123	-	106.733	-	132.681	-	0.000	-	132.681

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**Appropriation 1810N: Other Procurement, Navy**  
**BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
72	A	2804	Depl JT Cmd & Control (DJC2)	-	8.657	-	9.064	-	3.249	-	0.000	-	3.249
73	A	2900	Maritime Integrated Broadcast System	-	13.021	-	16.026	-	11.646	-	0.000	-	11.646
74	A	2906	Tactical/Mobile C4I Systems	-	10.876	-	15.489	-	18.189	-	0.000	-	18.189
75	A	2914	Distributed Common Ground System-Navy (DCGS-N)	-	12.499	-	11.887	-	17.350	-	0.000	-	17.350
76	A	2915	CANES	-	78.239	-	341.398	-	340.567	-	0.000	-	340.567
77	A	2920	RADIAC	-	6.185	-	8.083	-	9.835	-	0.000	-	9.835
78	A	2925	CANES Intell	-	73.363	-	79.427	-	59.652	-	0.000	-	59.652
79	A	2940	Gen Purp Elec Test Equip (GPETE)	-	6.010	-	6.083	-	6.253	-	0.000	-	6.253
80	A	2960	Integ Combat System Test Facility	-	4.430	-	4.495	-	4.963	-	0.000	-	4.963
81	A	2970	EMI Control Instrumentation	-	4.741	-	4.767	-	4.664	-	0.000	-	4.664

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**Appropriation 1810N: Other Procurement, Navy**  
**BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
82	A	2980	Items less than \$5 Million	-	42.416	-	81.755	-	66.889	-	0.000	-	66.889
<b>Total: Communications &amp; Electronics Equip / Other Shore Electronic Equipment</b>				-	260.437	-	578.474	-	543.257	-	0.000	-	543.257

**Appropriation 1810N: Other Procurement, Navy**  
**BA 02: Communications & Electronics Equip / BSA 11: Shipboard Communications**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
83	A	3010	Shipboard Tactical Comms	-	1.494	-	0.000	-	0.000	-	0.000	-	0.000
84	A	3050	Ship Communications Automation	-	274.112	-	56.870	-	23.877	-	0.000	-	23.877
85	A	3051	MDA	-	24.022	-	1.063	-	0.000	-	0.000	-	0.000

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**Appropriation 1810N: Other Procurement, Navy**  
**BA 02: Communications & Electronics Equip / BSA 11: Shipboard Communications**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
86	A	3057	Communications Items under \$5M	-	26.985	-	28.522	-	28.001	-	0.000	-	28.001
<b>Total: Communications &amp; Electronics Equip / Shipboard Communications</b>				-	326.613	-	86.455	-	51.878	-	0.000	-	51.878

**Appropriation 1810N: Other Procurement, Navy**  
**BA 02: Communications & Electronics Equip / BSA 12: Submarine Communications**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
87	A	3107	Submarine Broadcast Support	-	11.243	-	4.183	-	7.856	-	0.000	-	7.856
88	A	3130	Submarine Communication Equipment	-	75.198	-	69.025	-	74.376	-	0.000	-	74.376

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**Appropriation 1810N: Other Procurement, Navy**  
**BA 02: Communications & Electronics Equip / BSA 12: Submarine Communications**

				Cost (\$ in Millions)									
Line#	Cost Type	Line Item #	Line Item Title	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
<b>Total: Communications &amp; Electronics Equip / Submarine Communications</b>				-	86.441	-	73.208	-	82.232	-	0.000	-	82.232

**Appropriation 1810N: Other Procurement, Navy**  
**BA 02: Communications & Electronics Equip / BSA 13: Satellite Communications**

				Cost (\$ in Millions)									
Line#	Cost Type	Line Item #	Line Item Title	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
89	A	3215	Satellite Communications Systems	-	28.601	-	49.294	-	27.381	-	0.000	-	27.381
90	A	3216	Navy Multiband Terminal (NMT)	-	107.242	-	184.825	-	215.952	-	0.000	-	215.952
<b>Total: Communications &amp; Electronics Equip / Satellite Communications</b>				-	135.843	-	234.119	-	243.333	-	0.000	-	243.333

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**Appropriation 1810N: Other Procurement, Navy**  
**BA 02: Communications & Electronics Equip / BSA 14: Shore Communications**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
91	A	3302	JCS Communications Equipment	-	2.186	-	2.180	-	4.463	-	0.000	-	4.463
92	A	3303	Electrical Power Systems	-	1.329	-	1.354	-	0.778	-	0.000	-	0.778
93	A	3368	Naval Shore Communications	-	2.327	-	0.000	-	0.000	-	0.000	-	0.000
<b>Total: Communications &amp; Electronics Equip / Shore Communications</b>				-	5.842	-	3.534	-	5.241	-	0.000	-	5.241

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**Appropriation 1810N: Other Procurement, Navy  
 BA 02: Communications & Electronics Equip / BSA 15: Cryptographic Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
94	A	3415	Info Systems Security Program (ISSP)	-	93.960	-	144.104	-	133.530	-	0.000	-	133.530
95	A	3417	MIO Intel Exploitation Team	-	0.000	-	0.000	-	1.000	-	0.000	-	1.000
<b>Total: Communications &amp; Electronics Equip / Cryptographic Equipment</b>				-	93.960	-	144.104	-	134.530	-	0.000	-	134.530

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**Appropriation 1810N: Other Procurement, Navy  
 BA 02: Communications & Electronics Equip / BSA 16: Cryptologic Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
96	A	3501	Cryptologic Communications Equip	-	14.820	-	12.604	-	12.251	-	0.000	-	12.251
<b>Total: Communications &amp; Electronics Equip / Cryptologic Equipment</b>				-	14.820	-	12.604	-	12.251	-	0.000	-	12.251

**Appropriation 1810N: Other Procurement, Navy  
 BA 02: Communications & Electronics Equip / BSA 17: Other Electronic Support**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
97	A	3620	Coast Guard Equipment	-	6.848	-	6.680	-	2.893	-	0.000	-	2.893

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**Appropriation 1810N: Other Procurement, Navy  
 BA 02: Communications & Electronics Equip / BSA 17: Other Electronic Support**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
<b>Total: Communications &amp; Electronics Equip / Other Electronic Support</b>				-	6.848	-	6.680	-	2.893	-	0.000	-	2.893

**Appropriation 1810N: Other Procurement, Navy  
 BA 02: Communications & Electronics Equip / BSA 19: Drug Interdiction Support**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
98	A	3820	Other Drug Interdiction Support	-	57.147	-	0.000	-	0.000	-	0.000	-	0.000
<b>Total: Communications &amp; Electronics Equip / Drug Interdiction Support</b>				-	57.147	-	0.000	-	0.000	-	0.000	-	0.000

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**Appropriation 1810N: Other Procurement, Navy  
 BA 03: Aviation Support Equipment / BSA 1: Sonobuoys**

				Cost (\$ in Millions)									
Line#	Cost Type	Line Item #	Line Item Title	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
99	A	4048	Sonobuoys - All Types	-	100.449	-	104.677	-	179.927	-	0.000	-	179.927
<b>Total: Aviation Support Equipment / Sonobuoys</b>				-	100.449	-	104.677	-	179.927	-	0.000	-	179.927

**Appropriation 1810N: Other Procurement, Navy  
 BA 03: Aviation Support Equipment / BSA 3: Aircraft Support Equipment**

				Cost (\$ in Millions)									
Line#	Cost Type	Line Item #	Line Item Title	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
100	A	4204	Weapons Range Support Equipment	-	50.197	-	70.753	-	55.279	-	0.000	-	55.279
101	A	4208	Expeditionary Airfields	-	55.561	-	66.878	-	8.792	-	0.000	-	8.792
102	A	4214	Acft Rearming Equip	-	4.684	-	11.349	-	11.364	-	0.000	-	11.364

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**Appropriation 1810N: Other Procurement, Navy**  
**BA 03: Aviation Support Equipment / BSA 3: Aircraft Support Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
103	A	4216	Acft Launch & Recovery Equip	-	19.777	-	82.618	-	59.502	-	0.000	-	59.502
104	A	4226	Meteorological Equipment	-	30.278	-	18.339	-	19.118	-	0.000	-	19.118
105	A	4242	DCRS/DPL	-	1.595	-	1.414	-	1.425	-	0.000	-	1.425
106	A	4244	Aviation Life Support	-	68.246	-	40.475	-	29.670	-	0.000	-	29.670
107	A	4248	Airborne Mine Countermeasures	-	33.515	-	61.552	-	101.554	-	0.000	-	101.554
108	A	4255	LAMPS MK III Shipboard Equipment	-	12.908	-	18.771	-	18.293	-	0.000	-	18.293
109	A	4264	Portable Electronic Maintenance Aids	-	8.778	-	7.954	-	7.969	-	0.000	-	7.969
110	A	4265	Other Aviation Support Equipment	-	30.779	-	10.023	-	5.215	-	0.000	-	5.215
111	A	4267	Autonomic Logistics Information System (ALIS)	-	0.000	-	3.826	-	4.827	-	0.000	-	4.827
<b>Total: Aviation Support Equipment / Aircraft Support Equipment</b>				-	316.318	-	393.952	-	323.008	-	0.000	-	323.008

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**Appropriation 1810N: Other Procurement, Navy  
 BA 04: Ordnance Support Equipment / BSA 2: Ship Gun System Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
112	A	5112	Naval Fires Control Sys	-	2.044	-	3.472	-	1.188	-	0.000	-	1.188
113	A	5209	Gun Fire Control Equipment	-	4.477	-	4.528	-	4.447	-	0.000	-	4.447
<b>Total: Ordnance Support Equipment / Ship Gun System Equipment</b>				-	6.521	-	8.000	-	5.635	-	0.000	-	5.635

**Appropriation 1810N: Other Procurement, Navy  
 BA 04: Ordnance Support Equipment / BSA 3: Ship Missile Systems Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
114	A	5237	NATO Seasparrow	-	8.904	-	8.960	-	58.368	-	0.000	-	58.368
115	A	5238	RAM GMLS	-	3.128	-	1.185	-	0.491	-	0.000	-	0.491

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**Appropriation 1810N: Other Procurement, Navy  
 BA 04: Ordnance Support Equipment / BSA 3: Ship Missile Systems Equipment**

Cost (\$ in Millions)

Line#	Cost Type	Line Item #	Line Item Title	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
116	A	5239	Ship Self Defense System	-	54.324	-	55.371	-	51.858	-	0.000	-	51.858
117	A	5246	AEGIS Support Equipment	-	42.204	-	81.614	-	59.757	-	0.000	-	59.757
118	A	5253	Tomahawk Support Equipment	-	70.261	-	77.767	-	71.559	-	0.000	-	71.559
119	A	5260	Vertical Launch Systems	-	0.732	-	0.754	-	0.626	-	0.000	-	0.626
120	A	5265	Maritime Integrated Planning System - MIPS	-	4.666	-	4.965	-	2.779	-	0.000	-	2.779
<b>Total: Ordnance Support Equipment / Ship Missile Systems Equipment</b>				-	184.219	-	230.616	-	245.438	-	0.000	-	245.438

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**Appropriation 1810N: Other Procurement, Navy**  
**BA 04: Ordnance Support Equipment / BSA 4: Fbm Support Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
121	A	5358	Strategic Missile Systems Equip	-	200.078	-	181.049	-	224.484	-	0.000	-	224.484
<b>Total: Ordnance Support Equipment / Fbm Support Equipment</b>				-	200.078	-	181.049	-	224.484	-	0.000	-	224.484

**Appropriation 1810N: Other Procurement, Navy**  
**BA 04: Ordnance Support Equipment / BSA 5: Asw Support Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
122	A	5420	SSN Combat Control Systems	-	89.214	-	71.316	-	85.678	-	0.000	-	85.678
123	A	5431	Submarine ASW Support Equipment	-	5.228	-	4.018	-	3.913	-	0.000	-	3.913

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**Appropriation 1810N: Other Procurement, Navy  
 BA 04: Ordnance Support Equipment / BSA 5: Asw Support Equipment**

				Cost (\$ in Millions)									
Line#	Cost Type	Line Item #	Line Item Title	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
124	A	5449	Surface ASW Support Equipment	-	5.801	-	6.465	-	3.909	-	0.000	-	3.909
125	A	5455	ASW Range Support Equipment	-	7.823	-	47.930	-	28.694	-	0.000	-	28.694
<b>Total: Ordnance Support Equipment / Asw Support Equipment</b>				-	108.066	-	129.729	-	122.194	-	0.000	-	122.194

**Appropriation 1810N: Other Procurement, Navy  
 BA 04: Ordnance Support Equipment / BSA 6: Other Ordnance Support Equipment**

				Cost (\$ in Millions)									
Line#	Cost Type	Line Item #	Line Item Title	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
126	A	5509	Explosive Ordnance Disposal Equip	-	83.580	-	3.579	-	46.586	-	0.000	-	46.586
127	A	5543	Items Less Than \$5 Million	-	13.663	-	3.125	-	11.933	-	0.000	-	11.933

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**Appropriation 1810N: Other Procurement, Navy**  
**BA 04: Ordnance Support Equipment / BSA 6: Other Ordnance Support Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
<b>Total: Ordnance Support Equipment / Other Ordnance Support Equipment</b>				-	97.243	-	6.704	-	58.519	-	0.000	-	58.519

**Appropriation 1810N: Other Procurement, Navy**  
**BA 04: Ordnance Support Equipment / BSA 7: Other Expendable Ordnance**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
128	A	5530	Anti-ship Missile Decoy System	-	32.634	-	31.743	-	62.361	-	0.000	-	62.361
129	A	5660	Surface Training Device Mods	-	6.254	-	34.174	-	41.813	-	0.000	-	41.813
130	A	5661	Submarine Training Device Mods	-	36.685	-	23.450	-	26.672	-	0.000	-	26.672
<b>Total: Ordnance Support Equipment / Other Expendable Ordnance</b>				-	75.573	-	89.367	-	130.846	-	0.000	-	130.846

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**Appropriation 1810N: Other Procurement, Navy  
 BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
131	A	6003	Passenger Carrying Vehicles	-	6.831	-	11.059	-	5.600	-	0.000	-	5.600
132	A	6007	General Purpose Trucks	-	2.562	-	4.177	-	3.717	-	0.000	-	3.717
133	A	6024	Construction & Maint Equip	-	24.740	-	11.128	-	10.881	-	0.000	-	10.881
134	A	6027	Fire Fighting Equipment	-	17.987	-	18.331	-	14.748	-	0.000	-	14.748
135	A	6028	Tactical Vehicles	-	16.787	-	28.724	-	5.540	-	0.000	-	5.540
136	A	6033	Amphibious Equipment	-	3.235	-	10.803	-	5.741	-	0.000	-	5.741
137	A	6058	Pollution Control Equipment	-	7.175	-	7.265	-	3.852	-	0.000	-	3.852
138	A	6060	Items under \$5 million	-	11.052	-	15.627	-	25.757	-	0.000	-	25.757
139	A	6075	Physical Security Vehicles	-	1.142	-	1.161	-	1.182	-	0.000	-	1.182
<b>Total: Civil Engineering Support Equip / Civil Engineering Support Equipment</b>				-	91.511	-	108.275	-	77.018	-	0.000	-	77.018

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**Appropriation 1810N: Other Procurement, Navy  
 BA 06: Supply Support Equipment / BSA 1: Supply Support Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
140	A	7015	Materials Handling Equipment	-	11.956	-	15.204	-	14.250	-	0.000	-	14.250
141	A	7050	Other Supply Support Equipment	-	4.453	-	6.330	-	6.401	-	0.000	-	6.401
142	A	7066	First Destination Transportation	-	6.416	-	6.539	-	5.718	-	0.000	-	5.718
143	A	7069	Special Purpose Supply Systems	-	42.789	-	34.804	-	22.597	-	0.000	-	22.597
<b>Total: Supply Support Equipment / Supply Support Equipment</b>				-	65.614	-	62.877	-	48.966	-	0.000	-	48.966

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**Appropriation 1810N: Other Procurement, Navy**  
**BA 07: Personnel & Command Support Equip / BSA 1: Training Devices**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
144	A	8081	Training Support Equipment	-	15.610	-	25.444	-	22.527	-	0.000	-	22.527
<b>Total: Personnel &amp; Command Support Equip / Training Devices</b>				-	15.610	-	25.444	-	22.527	-	0.000	-	22.527

**Appropriation 1810N: Other Procurement, Navy**  
**BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
145	A	8106	Command Support Equipment	-	26.590	-	43.165	-	50.428	-	0.000	-	50.428
146	A	8108	Education Support Equipment	-	2.197	-	2.251	-	2.292	-	0.000	-	2.292

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**Appropriation 1810N: Other Procurement, Navy  
 BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
147	A	8109	Medical Support Equipment	-	14.175	-	3.148	-	4.925	-	0.000	-	4.925
149	A	8114	Naval MIP Support Equipment	-	1.907	-	3.502	-	3.202	-	0.000	-	3.202
151	A	8118	Operating Forces Supt Equip	-	21.349	-	15.696	-	24.294	-	0.000	-	24.294
152	A	8120	C4ISR Equipment	-	24.898	-	7.344	-	4.287	-	0.000	-	4.287
153	A	8126	Environmental Support Equipment	-	18.639	-	19.492	-	18.276	-	0.000	-	18.276
154	A	8128	Physical Security Equipment	-	220.638	-	186.472	-	134.495	-	0.000	-	134.495
155	A	8161	Enterprise Information Technology	-	158.202	-	183.995	-	324.327	-	0.000	-	324.327
999	A	8115	Intelligence Support Equipment	-	13.383	-	13.063	-	12.140	-	0.000	-	12.140
<b>Total: Personnel &amp; Command Support Equip / Command Support Equipment</b>				-	501.978	-	478.128	-	578.666	-	0.000	-	578.666

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**Appropriation 1810N: Other Procurement, Navy  
 BA 08: Spares and Repair Parts / BSA 1: Spares And Repair Parts**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
157	A	9020	Spares and Repair Parts	-	206.098	-	250.718	-	317.234	-	0.000	-	317.234
<b>Total: Spares and Repair Parts / Spares And Repair Parts</b>				-	206.098	-	250.718	-	317.234	-	0.000	-	317.234

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(Listing by Appropriation, then Line Number)

**Appropriation 1810N: Other Procurement, Navy**

**BA 01: Ships Support Equipment / BSA 1: Ship Propulsion Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
1	A	0110	LM-2500 Gas Turbine	-	13.760	-	10.658	-	10.180	-	0.000	-	10.180
2	A	0120	Allison 501K Gas Turbine	-	8.643	-	8.469	-	5.536	-	0.000	-	5.536
3	A	0140	Hybrid Electric Drive (HED)	-	0.000	-	0.000	-	16.956	-	0.000	-	16.956
<b>Total: Ships Support Equipment / Ship Propulsion Equipment</b>				-	22.403	-	19.127	-	32.672	-	0.000	-	32.672

**Appropriation 1810N: Other Procurement, Navy**

**BA 01: Ships Support Equipment / BSA 2: Generators**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
4	A	0200	Surface Combatant HM&E	-	0.000	-	0.000	-	19.782	-	0.000	-	19.782
<b>Total: Ships Support Equipment / Generators</b>				-	0.000	-	0.000	-	19.782	-	0.000	-	19.782

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**Appropriation 1810N: Other Procurement, Navy  
BA 01: Ships Support Equipment / BSA 6: Navigation Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
5	A	0670	Other Navigation Equipment	-	20.582	-	23.392	-	39.509	-	0.000	-	39.509
<b>Total: Ships Support Equipment / Navigation Equipment</b>				-	20.582	-	23.392	-	39.509	-	0.000	-	39.509

**Appropriation 1810N: Other Procurement, Navy  
BA 01: Ships Support Equipment / BSA 8: Periscopes**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
6	A	0831	Sub Periscopes & Imaging Equip	-	64.033	-	53.809	-	52.515	-	0.000	-	52.515
<b>Total: Ships Support Equipment / Periscopes</b>				-	64.033	-	53.809	-	52.515	-	0.000	-	52.515

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**Appropriation 1810N: Other Procurement, Navy  
BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
7	A	0900	DDG Mod	-	126.373	-	452.371	-	285.994	-	0.000	-	285.994
8	A	0910	Firefighting Equipment	-	17.064	-	16.958	-	14.389	-	0.000	-	14.389
9	A	0925	Command and Control Switchboard	-	3.049	-	2.492	-	2.436	-	0.000	-	2.436
10	A	0933	LHA/LHD Midlife	-	0.000	-	0.000	-	12.700	-	0.000	-	12.700
11	A	0934	LCC 19/20 Extended Service Life Program	-	0.000	-	0.000	-	40.329	-	0.000	-	40.329
12	A	0935	Pollution Control Equipment	-	22.210	-	20.707	-	19.603	-	0.000	-	19.603
13	A	0941	Submarine Support Equipment	-	14.122	-	12.046	-	8.678	-	0.000	-	8.678
14	A	0942	Virginia Class Support Equipment	-	93.487	-	79.870	-	74.209	-	0.000	-	74.209
15	A	0944	LCS Class Support Equipment	-	0.000	-	19.865	-	47.078	-	0.000	-	47.078
16	A	0945	Submarine Batteries	-	42.191	-	41.522	-	37.000	-	0.000	-	37.000

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**Appropriation 1810N: Other Procurement, Navy  
BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
17	A	0946	LPD Class Support Equipment	-	0.000	-	30.543	-	25.053	-	0.000	-	25.053
18	A	0950	Strategic Platform Support Equip	-	25.048	-	16.257	-	12.986	-	0.000	-	12.986
19	A	0955	Deep Subm Sys Proj (DSSP) Equip	-	2.594	-	3.630	-	2.455	-	0.000	-	2.455
20	A	0960	CG Modernization	-	557.503	-	101.000	-	10.539	-	0.000	-	10.539
21	A	0970	LCAC	-	0.000	-	16.645	-	14.431	-	0.000	-	14.431
22	A	0977	Underwater EOD Programs	-	17.499	-	35.446	-	36.700	-	0.000	-	36.700
23	A	0981	Items less than \$5 Million	-	94.963	-	65.998	-	119.902	-	0.000	-	119.902
24	A	0989	Chemical Warfare Detectors	-	5.494	-	4.359	-	3.678	-	0.000	-	3.678
25	A	0990	Submarine Life Support System	-	13.364	-	10.218	-	8.292	-	0.000	-	8.292
<b>Total: Ships Support Equipment / Other Shipboard Equipment</b>				-	1,034.961	-	929.927	-	776.452	-	0.000	-	776.452

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Exhibit P-1

(Listing by Appropriation, then Line Number)

**Appropriation 1810N: Other Procurement, Navy  
BA 01: Ships Support Equipment / BSA 10: Reactor Plant Equipment**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
26	A	1010	Reactor Power Units	-	435.055	-	286.859	-	0.000	-	0.000	-	0.000
27	A	1020	Reactor Components	-	271.600	-	278.503	-	286.744	-	0.000	-	286.744
<b>Total: Ships Support Equipment / Reactor Plant Equipment</b>				-	706.655	-	565.362	-	286.744	-	0.000	-	286.744

**Appropriation 1810N: Other Procurement, Navy  
BA 01: Ships Support Equipment / BSA 11: Ocean Engineering**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
28	A	1130	Diving and Salvage Equipment	-	9.644	-	8.998	-	8.780	-	0.000	-	8.780

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(Listing by Appropriation, then Line Number)

**Appropriation 1810N: Other Procurement, Navy  
BA 01: Ships Support Equipment / BSA 11: Ocean Engineering**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
<b>Total: Ships Support Equipment / Ocean Engineering</b>				-	9.644	-	8.998	-	8.780	-	0.000	-	8.780

**Appropriation 1810N: Other Procurement, Navy  
BA 01: Ships Support Equipment / BSA 12: Small Boats**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
29	A	1210	Standard Boats	-	37.253	-	30.131	-	36.452	-	0.000	-	36.452
<b>Total: Ships Support Equipment / Small Boats</b>				-	37.253	-	30.131	-	36.452	-	0.000	-	36.452

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Exhibit P-1

(Listing by Appropriation, then Line Number)

**Appropriation 1810N: Other Procurement, Navy  
BA 01: Ships Support Equipment / BSA 13: Training Equipment**

				Cost (\$ in Millions)									
Line#	Cost Type	Line Item #	Line Item Title	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
30	A	1320	Other Ships Training Equipment	-	29.885	-	29.772	-	36.145	-	0.000	-	36.145
<b>Total: Ships Support Equipment / Training Equipment</b>				-	29.885	-	29.772	-	36.145	-	0.000	-	36.145

**Appropriation 1810N: Other Procurement, Navy  
BA 01: Ships Support Equipment / BSA 14: Production Facilities Equipment**

				Cost (\$ in Millions)									
Line#	Cost Type	Line Item #	Line Item Title	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
31	A	1445	Operating Forces IPE	-	55.905	-	64.346	-	69.368	-	0.000	-	69.368
<b>Total: Ships Support Equipment / Production Facilities Equipment</b>				-	55.905	-	64.346	-	69.368	-	0.000	-	69.368

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Exhibit P-1  
(Listing by Appropriation, then Line Number)

**Appropriation 1810N: Other Procurement, Navy  
BA 01: Ships Support Equipment / BSA 15: Other Ship Support**

Cost (\$ in Millions)

Line#	Cost Type	Line Item #	Line Item Title	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
32	A	1480	Nuclear Alterations	-	144.175	-	154.652	-	106.328	-	0.000	-	106.328
33	A	1600	LCS Common Mission Modules Equipment	-	65.848	-	31.319	-	45.966	-	0.000	-	45.966
34	A	1601	LCS MCM Mission Modules	-	0.000	-	38.392	-	59.885	-	0.000	-	59.885
35	A	1603	LCS SUW Mission Modules	-	0.000	-	32.897	-	37.168	-	0.000	-	37.168
<b>Total: Ships Support Equipment / Other Ship Support</b>				-	210.023	-	257.260	-	249.347	-	0.000	-	249.347

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(Listing by Appropriation, then Line Number)

**Appropriation 1810N: Other Procurement, Navy  
BA 01: Ships Support Equipment / BSA 16: Logistic Support**

**Cost (\$ in Millions)**

Line#	Cost Type	Line Item #	Line Item Title	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
36	A	1610	LSD Midlife	-	132.733	-	49.758	-	77.974	-	0.000	-	77.974
<b>Total: Ships Support Equipment / Logistic Support</b>				-	132.733	-	49.758	-	77.974	-	0.000	-	77.974

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 1: Ship Propulsion Equipment

**P-1 Line Item Nomenclature:**  
0110 - LM-2500 Gas Turbine

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	109.304	13.760	10.658	10.180	-	10.180	20.198	24.286	24.735	29.718	104.984	347.823
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	109.304	13.760	10.658	10.180	-	10.180	20.198	24.286	24.735	29.718	104.984	347.823
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>109.304</b>	<b>13.760</b>	<b>10.658</b>	<b>10.180</b>	<b>-</b>	<b>10.180</b>	<b>20.198</b>	<b>24.286</b>	<b>24.735</b>	<b>29.718</b>	<b>104.984</b>	<b>347.823</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

PROGRAM DESCRIPTION/JUSTIFICATION: 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:

[P40A / GA009 MODIFICATION PROGRAM]: GA009 - MODIFICATION KIT PROGRAM

This cost code procures modification kits listed below for the LM2500 Gas Turbine Engine. These modifications increase reliability and fleet readiness through component upgrades which improves the Mean Time Between Failure (MTBF). The modification kits are procured based on historical usage rates, re-packaged into individual kits, and sent to either a depot to be installed during engine overhauls or to Regional Maintenance Centers for installation. No procurement quantities are a result of procuring various kits of various costs. The kits included in the cost code are as follows:

- Accelerometers (Vibration Monitor)
- 5-Element to 6-Element Pump Conversion
- T5.4 Flexible Thermo Harness
- Mid Flange Fastener
- Exhaust Collector Blankets
- Split Shaft Shrouds

[P40A / GA010 GAS GENERATOR]: GA010 - GAS GENERATOR

This cost code procures the LM2500 single shank gas turbine generators for the DDG-51 & LCS-2 class ships and the LM2500+ single shank gas turbine generators for the LHD8/LHA6 class ships. The programs projected FY-13 in-service population of single shank gas turbine engines is 332, increasing to 382 in FY-18 due to new construction. Breakdown of ship class spare procurement is listed below. The procurement of these engines includes all required shipping/storage containers.

DDG LM2500 Single Shank Spare turbines

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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 1: Ship Propulsion Equipment		<b>P-1 Line Item Nomenclature:</b> 0110 - LM-2500 Gas Turbine
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
<b>MDAP/MAIS Code(s):</b>		
<p>Based on experience with 35 years of usage demand data on the LM2500 Engine and IAW 10 USC Sec. 2308, DFAR subpart 207.70 and DoDI 3110.06, a total of 36 spares are required to support the fleet requirements. Current on-hand is 27 with one (1) procured in FY-11 leaving a requirement for eight (8) additional gas generator units to be procured IAW projected class population in FY18.</p> <p>LCS 2 LM2500 Single Shank Spare turbines Based on experience with 35 years of usage demand data on the LM2500 Engine and IAW 10 USC Sec. 2308, DFAR subpart 207.70 and DoDI 3110.06, a total of 3 spares are required to support the fleet requirements. Current on-hand is 1 with one (1) procured in May FY12 which leaves the requirement for one (1) additional gas generator unit to be procured IAW projected class population in FY18.</p> <p>LHD8/LHA6 LM2500+ Single Shank Spare turbines Based on experience with 35 years of usage demand data on the LM2500 Engine and IAW 10 USC Sec. 2308, DFAR subpart 207.70 and DoDI 3110.06, a total of 2 spares are required to support the fleet requirements. Current on-hand is 1, which leaves the requirement for one (1) additional gas generator to be procured IAW projected class population as of FY18. The program has budgeted to procure one (1) LM2500+ Engine and one (1) Power Turbine Assembly in FY18 to meet the baseline requirement. This engine represents a significantly different configuration than the standard LM2500 Single Shank Engine procured in previous fiscal years.</p> <p>LM2500 Hot Section Kits Are procured on an as required basis from the below list per quarterly failure analysis and maintained to replace High Pressure Turbine (HPT) components beyond economical repair (BER). Shortages of replacement blades increase engine repair turn-around during engine refurbishment/repair as a result of material shortages. Procurement quantities are a result of procuring various kits of various costs. The kits included in the cost code are as follows: --HPT Shrouds --HPT Seal Assembly --HPT Blades --HPT Nozzles --Compressor Blades</p> <p>[P40A / GA012 CONTROL SYSTEMS MODIFICATIONS]: GA012 - CONTROL SYSTEM MODIFICATIONS This cost code funds the procurement and installation of the Aft Steering Local Control Unit and Damage Control Hard Drives following control system modifications: Aft steering local control unit single board computers are currently obsolete and require replacement. Installation is required to be completed on 24 ships. Installations do not require CNO availabilities. Installations will be accomplished during pier side availability by NSWCCD-SSES. There are 4 kits required per ship. The kits include the following hardware: single board computer, daughter board, transceiver, power cables, and associated software packages. Current Damage Control Workstation hard drives are currently obsolete and require replacement. In order to maintain commonality in configuration a one-time bulk buy in FY12 is required as vendor is phasing-out the production of this unit. Installation is required to be completed on 24 ships. There are seven (7) hard drives required per ship. Installations do not require CNO availabilities. Installations will be accomplished during pier side availability by NSWCCD-SSES.</p> <p>[P40A / GA014 SPECIAL SUPPORT EQUIPMENT (SSE)]: GA014 - SPECIAL SUPPORT EQUIPMENT (SSE) 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>[P40A / GA015 LM2500 DIGITAL FUEL CONTROL]: GA015 - DIGITAL FUEL CONTROL (DFC)</p>		

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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 1: Ship Propulsion Equipment		<b>P-1 Line Item Nomenclature:</b> 0110 - LM-2500 Gas Turbine
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
<b>MDAP/MAIS Code(s):</b>		
<p>This cost code procures the Digital Fuel Control (DFC) shipsets, ancillary equipment and install material to support the CG/DDG modernization schedules. Procurement and installations are budgeted to correspond with CNO ship availabilities. One DFC Kit is required to upgrade each of the four LM2500 engines, which makes one DFC shipset. Each shipset requires up to a 12 month lead time due to contracting process, production, assembly and shipping.</p> <p>The DFC is the most significant change to the LM2500 engine since its inception into the USN that addresses obsolescence components which accounted for approximately 40% of all engine failures. This modification is estimated to be 75% more reliable than the old system.</p> <p>This upgrade replaces the existing Hydro-mechanical main fuel control (MFC) system which was designed for aircraft; with a Digital Fuel Control (DFC) system designed for military marine environment. This modification increases engine reliability, decreases PMS, enhances operational functions, and provides an automatic stall detection and shutdown capability.</p> <p>[P40A / GA016 MANAGEMENT ENERGY INITIATIVES]: GA016 - MANAGEMENT ENERGY INITIATIVES          This cost code procures the materials and funds installation of the LM2500 energy initiatives, which include online waterwash and LM-2500 fuel efficiency improvements:  <b>Online Waterwash</b>          The online waterwash systems yield fuel savings by reducing engine compressor fouling. This also reduces the number of offline washes performed, which translates into a reduction in hazardous waste, engine downtime, man-power, and starter wear, leading to an overall maintenance savings.          Online waterwash will be installed on a total of 62 ships (DDG-51 Class ships) or 248 LM2500 Engines. A shipset comprises four (4) online waterwash kits.          Online waterwash installation consists of adding a 3-way solenoid valve, online waterwash nozzles, and associated hardware to the existing crank wash piping. The system will be aligned similarly to the crank waterwash system, but will allow online washes to be performed during the gas turbine operation.  <b>LM-2500 Fuel Efficiency Improvements</b>          LM-2500 Fuel Efficiency Improvement is being developed under the Electric Ship Office (ESO), PE 0603573N / Project 2471 in FY's 12-14. LM-2500 Fuel Efficiency kits consist of materials and components which will cool compressor and turbine components; software to improve fuel scheduling; and internal and external flow optimization hardware.          "LM2500 Fuel Efficiency upgrade kits will be installed during overhaul at Fleet Readiness Center, San Diego."</p> <p>[P40A / GA830 PRODUCTION ENGINEERING]: GA830 - PRODUCTION ENGINEERING          The review and approval of any production contract technical documentation, or the separate development of this documentation to include Technical Manuals, Signal Flow Diagrams, PMS, Level III Production Drawings, Provisioning Technical Documentation (PTD), Program Support Data, Allowance Parts Lists (APL's) and engineering in support of final design reviews.</p> <p>[P3A / GA015 DIGITAL FUEL CONTROL SHIPSET]: GA015 - DIGITAL FUEL CONTROL (DFC)          This cost code procures the Digital Fuel Control (DFC) shipsets, ancillary equipment and install material to support the CG/DDG modernization schedules.          One DFC Kit is required to upgrade each of the four LM2500 engines, which makes one DFC shipset. Each shipset requires up to a 12 month lead time due to contracting process, production, assembly and shipping.          One additional Digital Fuel Control (DFC) kit will be procured for the one LM2500 Engine Trainer at the Naval Training Center, Great Lakes to maintain a common configuration with the fleet.          The DFC is the most significant change to the LM2500 engine since its inception into the USN that addresses obsolescence components which accounted for approximately 40% of all engine failures. In summary this modification is estimated to be 75% more reliable than the old system.          This upgrade replaces the existing Hydro-mechanical main fuel control (MFC) system which was designed for aircraft; with a Digital Fuel Control (DFC) system designed for military marine environment. This modification increases engine reliability, decreases PMS, enhances operational functions, and provides an automatic stall detection and shutdown capability.</p> <p>GA6IN - INSTALLATION FOR DIGITAL FUEL CONTROL (DFC) GA015          This cost code funds the installation of Cost Code GA015-Digital Fuel Control (DFC) shipsets as part of the CG/DDG HM&amp;E modernization program. This includes pre-assembly at NSWCCD Philadelphia, shipping to installation location, shipboard installation, training, post installation operational testing and associated travel cost.</p>		

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 1: Ship Propulsion Equipment

**P-1 Line Item Nomenclature:**  
0110 - LM-2500 Gas Turbine

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
LM-2500 Gas Turbine	P40A, P5A				77.971			10.222			6.981			5.006			-			5.006
1 - GA015 - LM2500 GAS TURBINE DIGITAL FUEL CONTROL	P3A				31.333			3.538			3.677			5.174			-			5.174
<b>Total Gross/Weapon System Cost</b>					<b>109.304</b>			<b>13.760</b>			<b>10.658</b>			<b>10.180</b>			<b>-</b>			<b>10.180</b>

Item Schedule		ID CD	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
LM-2500 Gas Turbine	P40A, P5A				-			-			-			-			-			-
1 - GA015 - LM2500 GAS TURBINE DIGITAL FUEL CONTROL	P3A				5.452			5.498			5.610			5.643			41.515			107.440
<b>Total Gross/Weapon System Cost</b>					<b>20.198</b>			<b>24.286</b>			<b>24.735</b>			<b>29.718</b>			<b>104.984</b>			<b>347.823</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.  
 Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 1: Ship Propulsion Equipment

**P-1 Line Item Nomenclature:**  
0110 - LM-2500 Gas Turbine

**Aggregated Item Name:**  
LM-2500 Gas Turbine

Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) GA009 MODIFICATION PROGRAM</b>																				
1.1) MODIFICATION KIT PROGRAM	A		-	-	27.463	-	-	0.895	-	-	0.588	-	-	0.579	-	-	-	-	-	0.579
<i>Subtotal 1) GA009 MODIFICATION PROGRAM</i>					27.463		0.895		0.588		0.579		-							0.579
<b>2) GA010 GAS GENERATOR (1)</b>																				
† 2.1) GAS GENERATOR (2)	A		31,747K	1	31.747	3,755K	1	3.755	3,905K	1	3.905	-	-	-	-	-	-	-	-	-
2.2) LM 2500 HOT SECTION KITS	A		-	-	-	-	-	3.623	-	-	0.573	-	-	1.580	-	-	-	-	-	1.580
<i>Subtotal 2) GA010 GAS GENERATOR</i>					31.747		7.378		4.478		1.580		-							1.580
<b>3) GA012 CONTROL SYSTEMS MODIFICATIONS</b>																				
3.1) CONTROL SYSTEMS MODIFICATIONS	A		-	-	13.440	-	-	1.109	-	-	0.730	-	-	0.168	-	-	-	-	-	0.168
<i>Subtotal 3) GA012 CONTROL SYSTEMS MODIFICATIONS</i>					13.440		1.109		0.730		0.168		-							0.168
<b>4) GA014 SPECIAL SUPPORT EQUIPMENT (SSE)</b>																				
4.1) SPECIAL SUPPORT EQUIPMENT (SSE)	A		-	-	1.768	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 4) GA014 SPECIAL SUPPORT EQUIPMENT (SSE)</i>					1.768		-		-		-		-							-
<b>5) GA015 LM2500 DIGITAL FUEL CONTROL (3)</b>																				
5.1) ANCILLARY EQUIPMENT/ INSTALLATION MATERIALS	A		-	-	-	-	-	0.072	-	-	0.096	-	-	0.074	-	-	-	-	-	0.074
5.2) SHORE BASED TRAINING UNIT (4)	A		-	-	-	-	-	0.374	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 5) GA015 LM2500 DIGITAL FUEL CONTROL</i>					-		0.446		0.096		0.074		-							0.074
<b>6) GA016 MANAGEMENT ENERGY INITIATIVES (5)</b>																				

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**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 1: Ship Propulsion Equipment

**P-1 Line Item Nomenclature:**  
0110 - LM-2500 Gas Turbine

**Aggregated Item Name:**  
LM-2500 Gas Turbine

Items († indicates the presence of a P-5A)	ID CD	MDAP/ MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)															
† 6.1) ONLINE WATERWASH GTM <sup>(6)</sup>	A		-	-	-	97,000.00	2	0.194	98,777.78	9	0.889	100,555.56	9	0.905	-	-	-	100,555.56	9	0.905
6.2) LM 2500 FUEL EFFICIENCY IMPROVEMENTS	A		-	-	-	-	-	-	-	-	-	-	-	1.500	-	-	-	-	-	1.500
<i>Subtotal 6) GA016 MANAGEMENT ENERGY INITIATIVES</i>					-			0.194			0.889			2.405			-			2.405
<b>7) GA830 PRODUCTION ENGINEERING</b>																				
7.1) PRODUCTION ENGINEERING	A		-	-	3.553	-	-	0.200	-	-	0.200	-	-	0.200	-	-	-	-	-	0.200
<i>Subtotal 7) GA830 PRODUCTION ENGINEERING</i>					3.553			0.200			0.200			0.200			-			0.200
<b>Total</b>					<b>77.971</b>			<b>10.222</b>			<b>6.981</b>			<b>5.006</b>			-			<b>5.006</b>

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Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy																Date: April 2013				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 1: Ship Propulsion Equipment										P-1 Line Item Nomenclature: 0110 - LM-2500 Gas Turbine						Aggregated Item Name: LM-2500 Gas Turbine				
Items († indicates the presence of a P-5A)	ID CD	MDAP/ MAIS Code	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) GA009 MODIFICATION PROGRAM</b>																				
1.1) MODIFICATION KIT PROGRAM	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 1) GA009 MODIFICATION PROGRAM</i>					-			-			-			-			-			-
<b>2) GA010 GAS GENERATOR (1)</b>																				
† 2.1) GAS GENERATOR (2)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.2) LM 2500 HOT SECTION KITS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) GA010 GAS GENERATOR</i>					-			-			-			-			-			-
<b>3) GA012 CONTROL SYSTEMS MODIFICATIONS</b>																				
3.1) CONTROL SYSTEMS MODIFICATIONS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 3) GA012 CONTROL SYSTEMS MODIFICATIONS</i>					-			-			-			-			-			-
<b>4) GA014 SPECIAL SUPPORT EQUIPMENT (SSE)</b>																				
4.1) SPECIAL SUPPORT EQUIPMENT (SSE)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 4) GA014 SPECIAL SUPPORT EQUIPMENT (SSE)</i>					-			-			-			-			-			-
<b>5) GA015 LM2500 DIGITAL FUEL CONTROL (3)</b>																				
5.1) ANCILLARY EQUIPMENT/ INSTALLATION MATERIALS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.2) SHORE BASED TRAINING UNIT (4)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 5) GA015 LM2500 DIGITAL FUEL CONTROL</i>					-			-			-			-			-			-
<b>6) GA016 MANAGEMENT ENERGY INITIATIVES (5)</b>																				

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**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 1: Ship Propulsion Equipment	<b>P-1 Line Item Nomenclature:</b> 0110 - LM-2500 Gas Turbine	<b>Aggregated Item Name:</b> LM-2500 Gas Turbine
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Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
† 6.1) ONLINE WATERWASH GTM <sup>(6)</sup>	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.2) LM 2500 FUEL EFFICIENCY IMPROVEMENTS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 6) GA016 MANAGEMENT ENERGY INITIATIVES</i>					-															-
<b>7) GA830 PRODUCTION ENGINEERING</b>																				
7.1) PRODUCTION ENGINEERING	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 7) GA830 PRODUCTION ENGINEERING</i>					-															-
<b>Total</b>					-															-

**Footnotes:**

(1) \* The cost estimates for the LM2500 engine procurements between FY13-FY18 are based on the Rough Order of Magnitude pricing provided by General Electric. The program will update the actual costs during the FY the contract is awarded.

(2) The cost estimates for the LM2500 engine procurements between FY13-FY18 are based on the Rough Order of Magnitude pricing provided by General Electric. The program will update the actual costs during the FY the contract is awarded.

(3) FY12 - Procured one (1) DFC kit for NTCC Great Lakes training engine.

(4) FY12 procured one (1) DFC kit for NTCC Great Lakes training engine.

(5) Online Waterwash quantities reflect entire ships. Four (4) OLWW kits are installed on each ship.

(6) Quantities reflect entire ships. Four (4) OLWW kits are installed on each ship.

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Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Navy										Date: April 2013		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 1: Ship Propulsion Equipment				P-1 Line Item Nomenclature: 0110 - LM-2500 Gas Turbine				Aggregated Item Name: LM-2500 Gas Turbine				
Items	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>2) GA010 GAS GENERATOR</b>												
2.1) GAS GENERATOR		2011	GE / CINCINNATI, OH	SS / BOA	NAVSUP WSS, Mechanicsburg PA	Sep 2011	Mar 2013	1	3,601K	Y		
2.1) GAS GENERATOR		2012	GE / CINCINNATI, OH	SS / BOA	NAVSUP WSS, Mechanicsburg PA	May 2012	Nov 2013	1	3,755K	Y		
2.1) GAS GENERATOR		2013	GE / CINCINNATI, OH	SS / BOA	NAVSUP WSS, Mechanicsburg PA	May 2013	Nov 2014	1	3,905K	Y		
<b>6) GA016 MANAGEMENT ENERGY INITIATIVES</b>												
6.1) ONLINE WATERWASH GTM		2012	VARIOUS / VARIOUS	SS / FFP	NSWC, PHILA	May 2012	Jul 2012	2	97,000.00	Y		
6.1) ONLINE WATERWASH GTM		2013	VARIOUS / VARIOUS	SS / FFP	NSWC, PHILA	Mar 2013	May 2013	9	98,777.78	Y		
6.1) ONLINE WATERWASH GTM		2014	VARIOUS / VARIOUS	SS / FFP	NSWC, PHILA	Mar 2014	May 2014	9	100,555.56	Y		

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 1: Ship Propulsion Equipment	<b>P-1 Line Item Nomenclature:</b> 0110 - LM-2500 Gas Turbine	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - GA015 - LM2500 GAS TURBINE DIGITAL FUEL CONTROL

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	31.333	3.538	3.677	5.174	-	5.174	5.452	5.498	5.610	5.643	41.515	107.440
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	31.333	3.538	3.677	5.174	-	5.174	5.452	5.498	5.610	5.643	41.515	107.440
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>31.333</b>	<b>3.538</b>	<b>3.677</b>	<b>5.174</b>	<b>-</b>	<b>5.174</b>	<b>5.452</b>	<b>5.498</b>	<b>5.610</b>	<b>5.643</b>	<b>41.515</b>	<b>107.440</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

[GA015 DIGITAL FUEL CONTROL SHIPSET] This cost code procures the Digital Fuel Control (DFC) shipsets, ancillary equipment and install material to support the CG/DDG modernization schedules. One DFC Kit is required to upgrade each of the four LM2500 engines, which makes one DFC shipset. Each shipset requires up to a 12 month lead time due to contracting process, production, assembly and shipping.

One additional Digital Fuel Control (DFC) kit was procured for the one LM2500 Engine Trainer at the Great Lakes Naval Training Center to maintain a common configuration with the fleet in FY12. Total kits procured in FY12 is 9 kits or 2.25 shipsets, which yields a unit cost of \$1,558,973 as opposed the \$1,614,000 detailed in the P3A.

The DFC is the most significant change to the LM2500 engine since its inception into the USN that addresses obsolescence components which accounted for approximately 40% of all engine failures. In summary this modification is estimated to be 75% more reliable than old system.

This upgrade replaces the existing Hydro-mechanical main fuel control (MFC) system which was designed for aircraft; with a Digital Fuel Control (DFC) system designed for military marine environment. This modification increases engine reliability, decreases PMS, enhances operational functions, and provides an automatic stall detection and shutdown capability.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 1: Ship Propulsion Equipment	<b>P-1 Line Item Nomenclature:</b> 0110 - LM-2500 Gas Turbine	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - GA015 - LM2500 GAS TURBINE DIGITAL FUEL CONTROL

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
GA015 - LM2500 GAS TURBINE DIGITAL FUEL CONTROL												
B Kits												
Recurring												
1.1.1) GA015 DIGITAL FUEL CONTROL SHIPSET - NonOrganic	31 / 31.333	2 / 3.228	2 / 3.165	3 / 4.818	- / -	3 / 4.818	3 / 4.891	3 / 4.963	3 / 5.039	3 / 5.114	20 / 36.660	70 / 99.211
<i>Subtotal Recurring</i>	31 / 31.333	2 / 3.228	2 / 3.165	3 / 4.818	- / -	3 / 4.818	3 / 4.891	3 / 4.963	3 / 5.039	3 / 5.114	20 / 36.660	70 / 99.211
<i>Total, GA015 - LM2500 GAS TURBINE DIGITAL FUEL CONTROL</i>	31 / 31.333	2 / 3.228	2 / 3.165	3 / 4.818	- / -	3 / 4.818	3 / 4.891	3 / 4.963	3 / 5.039	3 / 5.114	20 / 36.660	70 / 99.211
<b>Total Procurement, All Modifications</b>	31 / 31.333	2 / 3.228	2 / 3.165	3 / 4.818	- / -	3 / 4.818	3 / 4.891	3 / 4.963	3 / 5.039	3 / 5.114	20 / 36.660	70 / 99.211
<b>Total Procurement and Support</b>	31.333	3.228	3.165	4.818	-	4.818	4.891	4.963	5.039	5.114	36.660	99.211
GA015 - LM2500 GAS TURBINE DIGITAL FUEL CONTROL Installation Cost	- / 0.000	- / 0.310	- / 0.512	- / 0.356	- / -	- / 0.356	- / 0.561	- / 0.535	- / 0.571	- / 0.529	- / 4.855	- / 8.229
<b>Total Installation Cost</b>	- / 0.000	- / 0.310	- / 0.512	- / 0.356	- / -	- / 0.356	- / 0.561	- / 0.535	- / 0.571	- / 0.529	- / 4.855	- / 8.229
<b>Total Cost (Procurement + Support + Installation)</b>	31.333	3.538	3.677	5.174	-	5.174	5.452	5.498	5.610	5.643	41.515	107.440

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 1: Ship Propulsion Equipment	<b>P-1 Line Item Nomenclature:</b> 0110 - LM-2500 Gas Turbine	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - GA015 - LM2500 GAS TURBINE DIGITAL FUEL CONTROL

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: GA015 - LM2500 GAS TURBINE DIGITAL FUEL CONTROL**

Manufacturer Name: General Electric <sup>(7)</sup>	Manufacturer Location: Cincinnati, OH
Administrative Leadtime ( <i>in Months</i> ): 2	Production Leadtime ( <i>in Months</i> ): 10

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Apr 2011	May 2012	Feb 2013	Feb 2014	Feb 2015	Feb 2016	Feb 2017
Delivery Dates	Feb 2012	Dec 2012	Dec 2013	Dec 2014	Dec 2015	Dec 2016	Dec 2017

<b>Installation:</b> GA015 - LM2500 GAS TURBINE DIGITAL FUEL CONTROL	<b>Method of Implementation:</b> GOVERNMENT AND AIT	<b>Installation Name:</b> GA015 DIGITAL FUEL CONTROL SHIPSET
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	28 / 0.000	2 / 0.310	1 / 0.171	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 0.481
FY 2012	- / -	- / -	2 / 0.341	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.341
FY 2013	- / -	- / -	- / -	2 / 0.356	- / -	2 / 0.356	- / -	- / -	- / -	- / -	- / -	2 / 0.356
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.561	- / -	- / -	- / -	- / -	3 / 0.561
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.535	- / -	- / -	- / -	3 / 0.535
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.571	- / -	- / -	3 / 0.571
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.529	- / 0.537	3 / 1.066
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.538	3 / 0.538
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 3.780	20 / 3.780
Total	28 / 0.000	2 / 0.310	3 / 0.512	2 / 0.356	- / -	2 / 0.356	3 / 0.561	3 / 0.535	3 / 0.571	3 / 0.529	23 / 4.855	70 / 8.229

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	28	-	1	-	1	-	2	1	-	-	1	-	1	-	1	2	-	-	2	1	-	-	2	-	1	-	1	1	1	23	70
Out	28	-	1	-	1	-	2	1	-	-	1	-	1	-	1	2	-	-	2	1	-	-	2	-	1	-	1	1	1	23	70

**Footnotes:**  
<sup>(7)</sup> Production lead time takes up to 12 months

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 1: Ship Propulsion Equipment	<b>P-1 Line Item Nomenclature:</b> 0120 - Allison 501K Gas Turbine
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	138.648	8.643	8.469	5.536	-	5.536	5.095	9.382	9.512	32.935	153.907	372.127
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	138.648	8.643	8.469	5.536	-	5.536	5.095	9.382	9.512	32.935	153.907	372.127
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>138.648</b>	<b>8.643</b>	<b>8.469</b>	<b>5.536</b>	<b>-</b>	<b>5.536</b>	<b>5.095</b>	<b>9.382</b>	<b>9.512</b>	<b>32.935</b>	<b>153.907</b>	<b>372.127</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

This program provides the life-cycle support for the following Marine Gas Turbine systems: 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. The Rolls Royce MT-30 are used on LCS-1 variant for main propulsion and DDG 1000 for electrical generation. Rolls Royce 250-KS4 is used as a starter gas turbine for the 501-K34 on DDG 79 and follow.

[P40A / GF001 STOCK ROTATING SPARES]: GF001 - STOCK ROTATING SPARES

This cost code procures the MT-30 & MT-5 gas turbines for the Littoral Combat Ship (LCS) and Zumwalt DDG 1000 program, the 250-KS4 SSGTG starter engines for the DDG 79 and follow, and the 501-K34 gas turbines DDG 51 class ships. The procurement of these engines includes all required shipping/storage containers.

**MT-30 Gas Turbines**

Based on experience with similar turbines and IAW 10 USC Sec. 2308, DFAR subpart 207.70 and DoDI 3110.06, a total of 5 spares are required to support the fleet. Current MT-30 spares on-hand is zero (0), one (1) planned delivery in FY13 and with one (1) budgeted procurement in FY18 leaves a requirement of 3 additional gas turbines to be procured. The projected FY-18 and beyond in-service population of MT-30 gas turbine engines is fifty (50) due to new construction.

**MT-5 Gas Turbines**

Based on experience with similar turbines and IAW 10 USC Sec. 2308, DFAR subpart 207.70 and DoDI 3110.06, a total of 2 spares are required to support the fleet. Current MT-5 spares on-hand is zero (0) with one (1) budgeted procurement in FY18 leaves a requirement of 1 additional gas turbines to be procured. The projected FY-18 and beyond in-service population of MT-5 gas turbine engines is six (6) due to new construction.

**250-KS4 SSGTG Starter Engines**

Based on experience with similar turbines and IAW 10 USC Sec. 2308, DFAR subpart 207.70 and DoDI 3110.06, a total of 12 spares are required to support the fleet requirements. Current spares on-hand is 8 and 4 procured with planned delivery in FY13 achieves the baseline sparing requirement. The projected FY-18 in-service population of starter engines is 112 due to new construction. Operation Tomodachi has

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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 1: Ship Propulsion Equipment		<b>P-1 Line Item Nomenclature:</b> 0120 - Allison 501K Gas Turbine
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
<b>MDAP/MAIS Code(s):</b>		
<p>resulted in the radiological contamination of twelve (12) 250-KS4 Marine Gas Turbines, which created an unplanned requirement to replace the twelve (12) affected engines beginning in FY13. Currently, the program has budgeted for six (6) replacements through FY18 leaving a requirement of six (6) additional replacement assets to be procured.</p> <p>501-K34 Gas Turbines Based on experience with similar turbines and IAW 10 USC Sec. 2308, DFAR subpart 207.70 and DoDI 3110.06, a total of 24 spares are required to support the fleet requirements. Current 501-K34 spares on-hand is 20 and 2 planned procurements in FY-12 leaves a requirement of 2 additional gas generator units to be procured. The projected FY-18 in-service population of gas turbine engines is 192, an increase from 186 in FY-12 due to new construction.</p> <p>[P40A / GF007 MODIFICATION PROGRAM]: GF007 - MODIFICATION PROGRAM This cost code procures modification kits listed below for the Rolls Royce Marine Gas Turbines (MGT). Analysis of Rolls Royce MGT engineering performance data, metrics, the SEA 21 Top Tech Issues and the component improvement program has identified necessary improvements to correct Rolls Royce MGT deficiencies. The modifications addresses the Fleet's top maintenance and reliability issues by reducing failure rates of system components, and improve Rolls Royce MGT readiness. The modification kits are packaged and shipped to the ship for installation during schedule CNO availability by a team of NSWCCD Philadelphia and Alteration Installation Team (AIT) personnel. No procurement quantities are a result of procuring various kits of various costs. The kits included in the cost code are as follows: --Engine Vibration Monitor --GTG Intake Filter System Replacement --SSGTG Bleed Air Control Valve Installation and Improvement --SSS Clutch upgrade to Air Turbine Starter (ATS) --SSGTG FADC 2-1 HMI Computer Conversion --SSGTG RIMSS Exhaust Backflow Detection System --Output Quill Shaft Bolt Replacement --RIMSS Tachometer Connector Improvement --Model 139 SSV and Off Mounted fuel Mod</p> <p>[P40A / GF009 SPECIAL SUPPORT EQUIPMENT (SSE)]: GF009 - SPECIAL SUPPORT EQUIPMENT (SSE) Funds have been re-prioritized to support other cost codes. Regional Maintenance Center (RMC) capability is enhanced by providing them SSE necessary to reduce engine change-outs and required to incorporate new modifications that will eliminate deficiencies identified through the TMA/TMI, metrics and the DDG-51 Top Tech Issues Programs and enhance MTBR, reliability and maintainability. Procured SSE supports the depot by increasing repair capability and allowing installation of new modifications that will eliminate deficiencies identified through the TMA/TMI, metrics and the DDG-51 top Tech Issues Programs and enhance MTBR, reliability and maintainability.</p> <p>[P40A / GF016 ELECTRIC STARTER]: GF016 - ELECTRIC STARTER Funds were re-prioritized to support other budget cost codes. Gas Turbines today are started with pneumatic (air) starters. These are maintenance intensive and complex. The electric starter will be common on both the Rolls Royce 501 engine and the LM2500. Technology projected to be available to support procurement in FY16.</p>		

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 1: Ship Propulsion Equipment	<b>P-1 Line Item Nomenclature:</b> 0120 - Allison 501K Gas Turbine
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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**MDAP/MAIS Code(s):**

[P40A / GF018 501 K-34 HOT SECTION REPLACEMENT]: GF018 - HOT SECTION REPLACEMENT

This cost code procures on an as required basis per quarterly failure analysis to replace High Pressure Turbine (HPT) components that are beyond economical repair (BER) so to reduce turn-around during engine refurbishment/repair from the kits listed below. No procurement quantities are a result of procuring various kits of various costs. The kits included in the cost code are as follows:  
 Blade Stage Kits T1, T2, T3 and T4  
 Vane Stage Kits T1, T2, T3 and T4

[P40A / GF020 MANAGEMENT ENERGY INITIATIVES]: GF020 - MANAGEMENT ENERGY INITIATIVES

This cost code procures the materials and funds installation of the Rolls Royce Marine Gas Turbine (MGT) energy initiatives, which include:  
 Online Waterwash

The online waterwash systems yield fuel savings by reducing engine compressor fouling. This also reduces the number of offline washes performed, which translates into a reduction in hazardous waste, engine downtime, man-power, and starter wear, leading to an overall maintenance savings.

Online waterwash will be installed on a total of 62 ships (DDG-51 Class ships) or 186 Rolls Royce MGT. A shipset comprises three (3) online waterwash kits. Online waterwash installation consists of adding a 3-way solenoid valve, online waterwash nozzles, and associated hardware to the existing crank wash piping. The system will be aligned similarly to the crank waterwash system, but will allow online washes to be performed during the gas turbine operation.

501-K34 3.5 Compressor Upgrades

The 3.5 compressor upgrade was developed and installed by NAVAIR and Rolls Royce to modernize the engine in order to achieve improved fuel efficiency. This upgrade is being leveraged and configured for use on the Rolls Royce 501-K34 turbine engine, which is the prime mover for the Gas Turbine Generator Sets (GTGs) of DDG 51 Class ships. Program anticipates a 3.4% improvement to fuel efficiency for each modified engine. First article incorporates capitalized non-recurring production costs to reconfigure the 3.5 compressor upgrade for the 501-K34 engines. Installation of these upgrades will be performed during overhauls at repair facilities. The upgrade will be installed on 186 GTG engines.

[P40A / GF830 PRODUCTION ENGINEERING]: GF830 - PRODUCTION ENGINEERING

The review and approval of any production contract technical documentation, or the separate development of this documentation to include Technical Manuals, Signal Flow Diagrams, PMS, Level III Production Drawings, Provisioning Technical Documentation (PTD), Program Support Data, Allowance Parts Lists (APL's) and engineering in support of final design reviews. This includes efforts associated with tracking and updating NDE, MGTIS and Weblog to reflect completed installations and ensure consistent documentation for engine configuration management.

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Allison 501K Gas Turbine	P40A, P5A, P21				138.648			8.643			8.469			5.536			-			5.536
<b>Total Gross/Weapon System Cost</b>				<b>138.648</b>			<b>8.643</b>			<b>8.469</b>			<b>5.536</b>			<b>-</b>				<b>5.536</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.



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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 1: Ship Propulsion Equipment

**P-1 Line Item Nomenclature:**  
0120 - Allison 501K Gas Turbine

**Aggregated Item Name:**  
Allison 501K Gas Turbine

Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total			
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
<b>1) GF001 STOCK ROTATING SPARES (1)</b>																					
† 1.1) 501-K34	A		1,895K	9	17.053	2,154K	2	4.309	-	-	-	-	-	-	-	-	-	-	-	-	
† 1.2) 250-KS4	A		399,000.00	2	0.798	399,000.00	1	0.399	406,000.00	1	0.406	414,000.00	1	0.414	-	-	-	414,000.00	1	0.414	
† 1.3) MT-30	A		12,500K	1	12.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.4) MT-5	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal 1) GF001 STOCK ROTATING SPARES</i>					30.351			4.708			0.406			0.414						0.414	
<b>2) GF007 MODIFICATION PROGRAM</b>																					
2.1) PROCURE MODIFICATION KITS	A		-	-	86.631	-	-	0.830	-	-	2.377	-	-	0.580	-	-	-	-	-	0.580	
2.2) INSTALLATION FOR MODIFICATION KITS	A		-	-	-	-	-	0.699	-	-	1.590	-	-	0.440	-	-	-	-	-	0.440	
<i>Subtotal 2) GF007 MODIFICATION PROGRAM</i>					86.631			1.529			3.967			1.020						1.020	
<b>3) GF009 SPECIAL SUPPORT EQUIPMENT (SSE)</b>																					
3.1) SPECIAL SUPPORT EQUIPMENT (SSE)	A		-	-	4.962	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal 3) GF009 SPECIAL SUPPORT EQUIPMENT (SSE)</i>					4.962			-			-			-						-	
<b>4) GF016 ELECTRIC STARTER</b>																					
4.1) ELECTRIC STARTER	A		-	-	2.850	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal 4) GF016 ELECTRIC STARTER</i>					2.850			-			-			-						-	
<b>5) GF018 501 K-34 HOT SECTION REPLACEMENT</b>																					
5.1) 501K-34 HOT SECTION REPLACEMENT	A		227,530.61	49	11.149	-	-	1.499	-	-	1.018	-	-	1.036	-	-	-	-	-	1.036	
<i>Subtotal 5) GF018 501 K-34 HOT SECTION REPLACEMENT</i>					11.149			1.499			1.018			1.036						-	1.036
<b>6) GF020 MANAGEMENT ENERGY INITIATIVES (2)</b>																					

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**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 1: Ship Propulsion Equipment	<b>P-1 Line Item Nomenclature:</b> 0120 - Allison 501K Gas Turbine	<b>Aggregated Item Name:</b> Allison 501K Gas Turbine
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Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
6.1) 501K-17/34 3.5 COMPRESSOR UPGRADE <sup>(3)</sup>	A		-	-	-	-	-	0.587	-	-	2.400	-	-	2.400	-	-	-	-	-	2.400
† 6.2) ONLINE WATERWASH GTG	A		-	-	-	50,000.00	2	0.100	50,900.00	9	0.458	51,777.78	9	0.466	-	-	-	51,777.78	9	0.466
<i>Subtotal 6) GF020 MANAGEMENT ENERGY INITIATIVES</i>					-			0.687			2.858			2.866			-			2.866
<b>7) GF830 PRODUCTION ENGINEERING</b>																				
7.1) PRODUCTION ENGINEERING	A		-	-	2.705	-	-	0.220	-	-	0.220	-	-	0.200	-	-	-	-	-	0.200
<i>Subtotal 7) GF830 PRODUCTION ENGINEERING</i>					2.705			0.220			0.220			0.200			-			0.200
<b>Total</b>					<b>138.648</b>			<b>8.643</b>			<b>8.469</b>			<b>5.536</b>			-			<b>5.536</b>

**Footnotes:**

(1) Funding was realigned in FY12 within the Rolls Royce Budget BLI 0120 to support the procurement of two (2) 501-K34 Marine Gas Turbines from Rolls Royce. As a result of Operation Tomodachi the program currently has four (4) K34 engines that have been quarantined in either a Forward Repairable Inspection Activity (FRIA)-JAPAN or Aviation Radiological Inspection Facility (AVRIF) - San Diego and thus are no longer available to support the RFI sparing pool.

(2) Funding was reprioritized within Cost Element GF020 to fund the Energy Dashboard Initiative in support of the Task Force Energy Program. The remainder of the funds as indicated in P-40 description was realigned to Cost Element GF001 to support the procurement of 501-K34 Marine Gas Turbines.

(3) Funding was reprioritized within Cost Element GF020 to fund the Energy Dashboard Initiative in support of the Task Force Energy Program. The remainder of the funds as indicated in P-40 description was realigned to Cost Element GF001 to support the procurement of 501-K34 Marine Gas Turbines.

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Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Navy										Date: April 2013		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 1: Ship Propulsion Equipment				P-1 Line Item Nomenclature: 0120 - Allison 501K Gas Turbine				Aggregated Item Name: Allison 501K Gas Turbine				
Items († indicates the presence of a P-21)	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>1) GF001 STOCK ROTATING SPARES</b>												
1.1) 501-K34		2012	ROLLS ROYCE / WALPOLE, MA	SS / BOA	NAVSUP WSS, Mechanicsburg, PA	Jun 2012	Dec 2013	2	2,154K	Y		
†1.2) 250-KS4		2011	ROLLS ROYCE / WALEPOLE, MA	SS / BOA	NAVSUP WSS, Mechanicsburg, PA	Jan 2012	Oct 2012	2	399,000.00	Y		
†1.2) 250-KS4		2012	ROLLS ROYCE / WALEPOLE, MA	SS / BOA	NAVSUP WSS, Mechanicsburg, PA	Apr 2012	Feb 2013	1	399,000.00	Y		
†1.2) 250-KS4		2013	ROLLS ROYCE / WALEPOLE, MA	SS / BOA	NAVSUP WSS, Mechanicsburg, PA	Mar 2013	Jan 2014	1	406,000.00	Y		
†1.2) 250-KS4		2014	ROLLS ROYCE / WALEPOLE, MA	SS / BOA	NAVSUP WSS, Mechanicsburg, PA	Mar 2014	Jan 2015	1	414,000.00	Y		
1.3) MT-30		2011	ROLLS ROYCE / WALPOLE, MA	SS / FFP	NAVSEA, Washington DC	Sep 2011	Mar 2013	1	12,500K	Y		
<b>6) GF020 MANAGEMENT ENERGY INITIATIVES</b>												
6.2) ONLINE WATERWASH GTG		2012	VARIOIUS / VARIOUS	SS / FFP	NSWC, PHILANSWC, PHILA	May 2012	Jul 2012	2	50,000.00	Y		
6.2) ONLINE WATERWASH GTG		2013	VARIOIUS / VARIOUS	SS / FFP	NSWC, PHILA	Mar 2013	May 2013	9	50,900.00	Y		
6.2) ONLINE WATERWASH GTG		2014	VARIOIUS / VARIOUS	SS / FFP	NSWC, PHILA	Mar 2014	May 2014	9	51,777.78	Y		

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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2014 Navy	<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 1: Ship Propulsion Equipment	<b>P-1 Line Item Nomenclature:</b> 0120 - Allison 501K Gas Turbine
<b>Aggregated Item Name:</b> Allison 501K Gas Turbine	

Items <i>(Units in Each)</i>						Fiscal Year 2011												Fiscal Year 2012																	
O C C O	M F R #	FY	SERVICE <sup>±</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT 2010	BAL DUE AS OF 1 OCT	Calendar Year 2011												Calendar Year 2012																
							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	B A L				
1) GF001 STOCK ROTATING SPARES																																			
1.2) 250-KS4																																			
	1	2011	NAVY	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1	2012	NAVY	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1	2013	NAVY	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1	2014	NAVY	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-





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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 1: Ship Propulsion Equipment	<b>P-1 Line Item Nomenclature:</b> 0120 - Allison 501K Gas Turbine	<b>Aggregated Item Name:</b> Allison 501K Gas Turbine

MFR #	MFR Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR	1-8-5	MAX	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	ROLLS ROYCE - WALEPOLE, MA	-	-	-	-	-	-	-	-	-	-	-	-

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

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**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 1: Ship Propulsion Equipment

**P-1 Line Item Nomenclature:**  
 0140 - Hybrid Electric Drive (HED)

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** 0708017N **Other Related Program Elements:** 0604567N, 0204228N

**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	-	-	16.956	-	16.956	46.009	47.003	47.862	48.711	166.951	373.492
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	-	-	16.956	-	16.956	46.009	47.003	47.862	48.711	166.951	373.492
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>0.000</b>	-	-	<b>16.956</b>	-	<b>16.956</b>	<b>46.009</b>	<b>47.003</b>	<b>47.862</b>	<b>48.711</b>	<b>166.951</b>	<b>373.492</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	0.803	-	0.803	0.802	0.601	-	0.776	Continuing	Continuing
Flyaway Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

The Secretary of the Navy has made fuel conservation and reducing fuel consumption leading to energy independence a leading priority for the Navy. DDG 51 Class ships account for over 40% of Non-Nuclear Surface Navy fuel consumption. The large class numbers and remaining service life of the DDG 51 Class Ships, in comparison to other classes of ships, provide the best opportunity for long term payoff for the Navy in addressing the Secretary's priority.

The Hybrid Electric Drive (HED) consists of an electric motor which can be coupled to the propulsion reduction gear to provide propulsion power from the ship service gas turbine generators (SSGTGs) during low speed operations. This will permit the securing of one or more propulsion gas turbines and allow higher power loading resulting in more efficient operation of the SSGTGs, which will be generating electric power for the HED as well as ship service power. In addition to reducing fuel consumption and the associated costs, HED results in the additional benefits of increasing the ship's range, increased time on station performing its mission, and reducing the frequency of fuel replenishment.

The HED shipsets will include the propulsion motors, motor drives and the associated controls, interfaces, and mounting equipment that will be required to install the HED on DDG 51 Class Ships. This budget supports the HED for installation on DDG 51 Class in-service ships beginning in FY15.

[P3A / TD001 - Hybrid Electric Drive]: Procure Hybrid Electric Drive (HED) for the DDG 51 Flight IIA Ships including equipment procurement, recurring equipment engineering, equipment integration, and ILS

[P3A / Equipment Modification]: Equipment Modifications will be performed to correct deficiencies, account for obsolescence, Diminishing Manufacturing Services, and engineering change proposals.

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**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 1: Ship Propulsion Equipment

**P-1 Line Item Nomenclature:**  
0140 - Hybrid Electric Drive (HED)

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** 0708017N **Other Related Program Elements:** 0604567N, 0204228N

**MDAP/MAIS Code(s):**

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hybrid Electric Drive (HED)	P40A				0.000			-			-			-			-			-
1 - TD001 - Hybrid Electric Drive	P3A				0.000			-			-			16.956			-			16.956
<b>Total Gross/Weapon System Cost</b>					<b>0.000</b>			<b>-</b>			<b>-</b>			<b>16.956</b>			<b>-</b>			<b>16.956</b>

Item Schedule		ID CD	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hybrid Electric Drive (HED)	P40A				-			-			-			-			-			-
1 - TD001 - Hybrid Electric Drive	P3A				46.009			47.003			47.862			48.711			166.951			373.492
<b>Total Gross/Weapon System Cost</b>					<b>46.009</b>			<b>47.003</b>			<b>47.862</b>			<b>48.711</b>			<b>166.951</b>			<b>373.492</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

This Item covers all HED procurement requirements for the DDG 51 Hybrid Electric Drive Backfit Program to be installed on Flight IIA ships. (DDG 79 through DDG 112; 34 ships).

The additional unit being procured will be a permanent replacement for the Proof of Concept HED used for demonstration at NSWCCD SSES Philadelphia Land Based Engineering Site (LBES). A production system is required to be maintained at LBES to support Machinery Control System (MCS) development and testing prior to all planned HED installations.

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**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 1: Ship Propulsion Equipment

**P-1 Line Item Nomenclature:**  
0140 - Hybrid Electric Drive (HED)

**Aggregated Item Name:**  
Hybrid Electric Drive (HED)

Items	ID CD	MDAP/ MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)															
<b>1) TD001 - Hybrid Electric Drive</b>																				
1.1) Hybrid Electric Drive (Units)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2) Equipment Modification	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3) Engineering Services	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 1) TD001 - Hybrid Electric Drive</i>					0.000			-			-			-			-			-
<b>2) TD6IN - Installation / DSA / AIT</b>																				
2.1) TD6IN - Installation / DSA / AIT (1)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) TD6IN - Installation / DSA / AIT</i>					0.000			-			-			-			-			-
<b>Total</b>					0.000			-			-			-			-			-

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**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 1: Ship Propulsion Equipment

**P-1 Line Item Nomenclature:**  
0140 - Hybrid Electric Drive (HED)

**Aggregated Item Name:**  
Hybrid Electric Drive (HED)

Items	ID CD	MDAP/MAIS Code	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) TD001 - Hybrid Electric Drive</b>																				
1.1) Hybrid Electric Drive (Units)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2) Equipment Modification	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3) Engineering Services	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 1) TD001 - Hybrid Electric Drive</i>					-			-			-			-			-			-
<b>2) TD6IN - Installation / DSA / AIT</b>																				
2.1) TD6IN - Installation / DSA / AIT (1)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) TD6IN - Installation / DSA / AIT</i>					-			-			-			-			-			-
<b>Total</b>					-			-			-			-			-			-

**Footnotes:**

(1) The hybrid electric drive is scheduled to begin installation on DDG 51 class ships in FY15.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 1: Ship Propulsion Equipment	<b>P-1 Line Item Nomenclature:</b> 0140 - Hybrid Electric Drive (HED)	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - TD001 - Hybrid Electric Drive

<b>Models of Systems Affected:</b> [No Model Specified]			<b>Type Modification:</b> [No Modification Type Specified]				<b>Related RDT&amp;E PEs:</b> 0604567N					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	-	16.956	-	16.956	46.009	47.003	47.862	48.711	166.951	373.492
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	-	16.956	-	16.956	46.009	47.003	47.862	48.711	166.951	373.492
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	-	-	<b>16.956</b>	-	<b>16.956</b>	<b>46.009</b>	<b>47.003</b>	<b>47.862</b>	<b>48.711</b>	<b>166.951</b>	<b>373.492</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

The Hybrid Electric Drive (HED) consists of an electric motor which can be coupled to the propulsion reduction gear to provide propulsion power from the ship service gas turbine generators (SSGTGs) during low speed operations. This will permit the securing of one or more propulsion gas turbines and allow higher power loading resulting in more efficient operation of the SSGTGs, which will be generating electric power for the HED as well as ship service power.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 1: Ship Propulsion Equipment	<b>P-1 Line Item Nomenclature:</b> 0140 - Hybrid Electric Drive (HED)	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - TD001 - Hybrid Electric Drive

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b> 0604567N
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
TD001 - Hybrid Electric Drive												
B Kits												
Recurring												
1.1.1) Hybrid Electric Drive (Units) - NonOrganic <sup>(2)</sup>	- / -	- / -	- / -	2 / 8.000	- / -	2 / 8.000	5 / 20.360	4 / 16.581	4 / 16.880	4 / 17.183	16 / 68.732	35 / 147.736
<i>Subtotal Recurring</i>	- / -	- / -	- / -	2 / 8.000	- / -	2 / 8.000	5 / 20.360	4 / 16.581	4 / 16.880	4 / 17.183	16 / 68.732	35 / 147.736
<i>Total, TD001 - Hybrid Electric Drive</i>	- / -	- / -	- / -	2 / 8.000	- / -	2 / 8.000	5 / 20.360	4 / 16.581	4 / 16.880	4 / 17.183	16 / 68.732	35 / 147.736
<i>Total Procurement, All Modifications</i>	- / -	- / -	- / -	2 / 8.000	- / -	2 / 8.000	5 / 20.360	4 / 16.581	4 / 16.880	4 / 17.183	16 / 68.732	35 / 147.736
<b>Support</b>												
2.1) Equipment Modification <sup>(3)</sup>	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.625	- / 0.419	- / 1.300	- / 1.500	- / -	- / 6.844
2.2) Engineering Services	- / -	- / -	- / -	- / 3.615	- / -	- / 3.615	- / 2.992	- / 2.164	- / 2.730	- / 3.076	- / -	- / 14.577
<i>Total Support, All Modifications</i>	-	-	-	3.615	-	3.615	6.617	2.583	4.030	4.576	-	21.421
<i>Total Procurement and Support</i>	-	-	-	11.615	-	11.615	26.977	19.164	20.910	21.759	68.732	169.157
TD001 - Hybrid Electric Drive Installation Cost	- / 0.000	- / -	- / -	- / 5.341	- / -	- / 5.341	- / 19.032	- / 27.839	- / 26.952	- / 26.952	- / 98.219	- / 204.335
<i>Total Installation Cost</i>	- / 0.000	- / -	- / -	- / 5.341	- / -	- / 5.341	- / 19.032	- / 27.839	- / 26.952	- / 26.952	- / 98.219	- / 204.335
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	-	-	<b>16.956</b>	-	<b>16.956</b>	<b>46.009</b>	<b>47.003</b>	<b>47.862</b>	<b>48.711</b>	<b>166.951</b>	<b>373.492</b>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 1: Ship Propulsion Equipment	<b>P-1 Line Item Nomenclature:</b> 0140 - Hybrid Electric Drive (HED)	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - TD001 - Hybrid Electric Drive

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b> 0604567N
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<b>Manufacturer Information:</b> TD001 - Hybrid Electric Drive	
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Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime ( <i>in Months</i> ): 3	Production Leadtime ( <i>in Months</i> ): 12

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates			Jan 2014	Jan 2015	Jan 2016	Jan 2017	Jan 2018
Delivery Dates			Jan 2015	Jan 2016	Jan 2017	Jan 2018	Jan 2019

<b>Installation:</b> TD001 - Hybrid Electric Drive	<b>Method of Implementation:</b> [none specified]	<b>Installation Name:</b> Hybrid Electric Drive (Units)
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / 4.039	- / -	- / 4.039	2 / 9.827	- / -	- / -	- / -	- / -	2 / 13.866
FY 2015	- / -	- / -	- / -	- / 1.302	- / -	- / 1.302	- / 8.170	5 / 20.134	- / -	- / -	- / -	5 / 29.606
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.035	- / 6.670	4 / 19.247	- / -	- / -	4 / 26.952
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.035	- / 6.670	4 / 19.247	- / -	4 / 26.952
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.035	- / 6.670	4 / 19.254	4 / 26.959
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.035	16 / 78.965	16 / 80.000
Total	- / -	- / -	- / -	- / 5.341	- / -	- / 5.341	2 / 19.032	5 / 27.839	4 / 26.952	4 / 26.952	20 / 98.219	35 / 204.335

Installation Schedule		FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot			
	APY	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	2	-	-	2	2	-	-	2	2	-	-	20	35		
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	3	2	-	-	2	2	-	-	2	2	-	-	22	35

**Footnotes:**  
<sup>(2)</sup> HED will be installed on Flight IIA ships beginning in Q2 of FY15. Installation/DSA/AIT - Provides Planning Yard Design Services (DSA) (design, advance planning, and kitted material), Master Ship Repair (MSR) installations and Alteration Installation Team (AIT) Support. 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 15 months which includes Administrative lead time (3 months) and Production lead time (12 months). Administrative lead time includes receipt of funds, document development, contracts review, comptroller review, and vendor concurrence. Production lead times are based on contractual requirements.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 1: Ship Propulsion Equipment	<b>P-1 Line Item Nomenclature:</b> 0140 - Hybrid Electric Drive (HED)	<b>Modification Nomenclature</b> <i>(Modification Number - Modification Title):</i> 1 - TD001 - Hybrid Electric Drive
<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b> 0604567N

<sup>(3)</sup> Equipment Modifications will be performed to correct deficiencies, account for obsolescence, Diminishing Manufacturing Services, and engineering change proposals.

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 2: Generators	<b>P-1 Line Item Nomenclature:</b> 0200 - Surface Combatant HM&E
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	-	-	19.782	-	19.782	15.956	18.075	18.438	48.714	-	120.965
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	0.000	-	-	19.782	-	19.782	15.956	18.075	18.438	48.714	-	120.965
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>19.782</b>	<b>-</b>	<b>19.782</b>	<b>15.956</b>	<b>18.075</b>	<b>18.438</b>	<b>48.714</b>	<b>-</b>	<b>120.965</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares <i>(\$ in Millions)</i>	-	-	-	4.844	-	4.844	12.624	-	-	-	-	17.468
Flyaway Unit Cost <i>(Units in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(Units in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

This program initiated in FY14 as a transfer of funding from BLI 5246, to allow the Navy to better align and identify Hull, Mechanical & Engineering (HM&E) requirements, shipboard upgrades and equipment in support of the in service Surface Combatants to include, Class Common Equipment to support shorter Regular Overhauls and Selected Restricted Availabilities and includes Ship System Components that require long repair turn-around; CG/DDG - Machinery Control Systems (MCS) COTS Refresh; Ship Control Systems and installation in support of the Ship Controls System.

[P40A / 7025 - CG/DDG COTS Tech Refresh]: 7025 - Due to Diminishing Manufacturing Sources and Material Shortages (DMSMS), Commercial Off The Shelf (COTS) equipment must be periodically refreshed to ensure supportability to the Fleet. DMSMS solutions, including after-market manufacturing (reverse engineering), bridge-buys, life-of-type buys, modernization through replacement, modification / redesign, and reclamation are implemented to ensure that in-service ships are operational and sustainable throughout the life of the system.

[P40A / 7013 - Common Class Equipment]: 7013 - The CCE program is to provide Ready-For-Issue (RFI) systems and equipment in support of Surface Combatant ship industrial availabilities and to replace major system equipment which sustains battle damage or major failure. CCE RFI assets are procured and stored to support the short industrial availabilities of Surface Combatants. The ready accessibility of these assets avoids delays in availability completion caused by lengthy equipment repair turn-around time or acquisition lead time. CCE RFI assets (systems and equipment) procured and stored to replace ships' mission- critical equipment or systems, which incur major, emergent damage or failure for Surface Combatants.

[P40A / 7026 - Ship Control Systems]: 7026 - Ship Control Systems (SCS) equipment and components are procured for various ship changes and engineering change proposals for in-service surface combatants and are installed outside of standard CNO availabilities.



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**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 2: Generators

**P-1 Line Item Nomenclature:**  
0200 - Surface Combatant HM&E

**Aggregated Item Name:**  
Surface Combatant HM&E

Items	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) Surface Combatant HM&amp;E (1)</b>																				
1) 7025 - CG/DDG COTS Tech Refresh (2)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.802
<i>Subtotal 1) Surface Combatant HM&amp;E</i>					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.802
<b>1) 7013 - Common Class Equipment (3)</b>																				
1.1) 7013 - Common Class Equipment	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.995
1.2) 7013 - CCE Main Reduction Gears	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 1) 7013 - Common Class Equipment</i>					0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.995
<b>2) 7026 - Ship Control Systems (4)</b>																				
2.1) 7026 - Ship Control Systems	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.927
2.2) 7026 - Ship Control Systems Software Licenses	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.149
<i>Subtotal 2) 7026 - Ship Control Systems</i>					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.076
<b>3) 7600 - HM&amp;E Installation (5)</b>																				
3.1) 7600 Ship Controls System Install	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.909
<i>Subtotal 3) 7600 - HM&amp;E Installation</i>					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.909
<b>Total</b>					<b>0.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>19.782</b>									

**Footnotes:**  
 (1) Cost code funding transfer for proper execution from BLI 5246.  
 (2) Cost code funding transfer for proper execution from BLI 5246.  
 (3) Cost code funding transfer for proper execution from BLI 5246.  
 (4) Cost code funding transfer for proper execution from BLI 5246.  
 (5) Ship Controls System Install funding transfer for proper execution from BLI 5246.

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**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 6: Navigation Equipment	<b>P-1 Line Item Nomenclature:</b> 0670 - Other Navigation Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	204.462	20.582	23.392	39.509	-	39.509	41.392	40.974	32.298	42.378	20.680	465.667
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	204.462	20.582	23.392	39.509	-	39.509	41.392	40.974	32.298	42.378	20.680	465.667
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>204.462</b>	<b>20.582</b>	<b>23.392</b>	<b>39.509</b>	<b>-</b>	<b>39.509</b>	<b>41.392</b>	<b>40.974</b>	<b>32.298</b>	<b>42.378</b>	<b>20.680</b>	<b>465.667</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	0.118	0.137	0.022	-	0.022	0.009	0.007	-	-	-	0.293
Flyaway Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

[P40A / GW013: CONVENTIONAL NAVIGATION FIELD CHANGE KITS]: These funds are required to procure Navigation Field Change Kits for reliability and maintainability improvements and corrections for various conventional navigation equipment including the Dead Reckoning Equipment (DRE), Computer Aided Dead Reckoning Tracer (CADRT), plotters, gyrocompasses, Electromagnetic Log (EM Log), Doppler Sonar Velocity Log (DSVL), Digital Flux Gate Magnetic Compass, Digital Depth Detector and Synchronization Signal Amplifier. These improvements are required to keep Fleet-installed equipment operating to a basic level.

[P40A / GW029: INERTIAL NAVIGATION SYSTEMS FIELD CHANGE KITS]: These funds are required in order to support procurement and implementation of Engineering Change Proposals (ECPs)/ Field Change (FC) Kits, alterations and update of associated technical documentation which provide reliability and maintainability improvements, corrections and upgrades for various Inertial Navigation Systems (INS), (AN/WSN-7/7A/7B), the associated IP-1747 Control Display Unit (CDU), and IP-1747 Enhanced Control Display Unit (ECDU), 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
- 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.

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<b>Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy</b>		<b>Date: April 2013</b>
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 6: Navigation Equipment		<b>P-1 Line Item Nomenclature:</b> 0670 - Other Navigation Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
<b>MDAP/MAIS Code(s):</b>		
<ul style="list-style-type: none"> <li>- Field Change #3 to the AN/WSN-7 provides hardware and software updates.</li> <li>- Field Change #4 to the AN/WSN-7 provides firmware changes to correct interfaces with Cooperative Engagement Capability (CEC) and Command &amp; Decision (C&amp;D) and provides short-term accuracy improvements for Ticonderoga Class Guided Missile Cruiser (AEGIS-CG) and Ballistic Defense Missile System (BDMS). Field Change #4 to the AN/WSN-7A provides ECDU hardware and software to correct Integral of Velocity rollover problem and provide an interface to the AN/BYG-1 Combat Control System (CCS).</li> <li>- 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.</li> <li>- AIAS product improvements to AN/SRC-40, OU-174, TS-3543A due to obsolescence.</li> <li>- Field Change #6 to the AN/WSN-7/7A provides upgraded MX-11681A Inertial Measuring Unit (IMU) for structure-borne noise reduction.</li> <li>- 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)</li> <li>- 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)</li> <li>- Field Change #9 to the AN/WSN-7 converts AN/WSN-7(V)2 to AN/WSN-7(V)3. Landing Helicopter Dock (LHD) 1 and 2 only.</li> <li>- Field Change #10 to the AN/WSN-7A provides CDU upgrades to include IA and the Linux Operating System. (SSN 688 Class, SSGN, and SSN 21/22)</li> <li>- 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.</li> <li>- 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)</li> <li>- 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)</li> <li>- Field Change #14 to the AN/WSN-7A provides Technical Insertion (TI-06): Adds Vertical Deflection Compensation, BQN-17A Interface, and Health Monitoring.</li> <li>- 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.</li> <li>- Field Change #16 to the AN/WSN-7A provides Technical Insertion (TI-10): Incorporates Precision Underwater Mapping (PUMA) and Correlation Navigation.</li> <li>- Field Change #17 to the AN/WSN-7A provides Technical Insertion (TI-12): Incorporates ECDU GPS (M-Code).</li> <li>- 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; SSGN only).</li> <li>- 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)</li> <li>- Field Change #20 to the AN/WSN-7/7A provides firmware upgrades: Navigation processor Revision AF and I/O processor Revision AB.</li> <li>- 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.</li> </ul> <p>[P40A / GW036: NAVIGATION SYSTEM PROCUREMENT-(AN/WSN-7B):] These funds are required to support the acquisition, implementation and certification of the AN/WSN-7B Ring Laser Gyrocompass (RLG), including hardware required for SSN 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>[P40A / GW038: BPS ECDIS-N/VMS FC KITS:] 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> <p>[P40A / GW051: SCALABLE ECDIS-N ECP/FIELD CHANGE KITS:] These funds are required for the procurement and installation of ECDIS-N ECP/Field Change Kits to support 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>[P40A / GW052: ENHANCED INERTIAL NAVIGATION PERFORMANCE PROGRAM:] These funds are required for the procurement of field change kits to enhance inertial navigation system performance.</p>		

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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2014 Navy	<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 6: Navigation Equipment	<b>P-1 Line Item Nomenclature:</b> 0670 - Other Navigation Equipment

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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**MDAP/MAIS Code(s):**

[P40A / GW054: NAVIGATION TRAINING EQUIPMENT]: Funds are required for the procurement of training equipment for multiple Navigation classrooms in support of Navigation System Technician pipeline training and ECDIS-N Operator Training. This includes computer upgrades and software licenses.

[P40A / GW830: PRODUCTION ENGINEERING]: These funds are required for production engineering for the AN/WSN-7/7A, AN/WSN-7B, CDU, ECDU, AIAS Scalable ECDIS-N Systems, and BPS ECDIS-N/VMS Systems hardware/software procurements and system test and integration.

[P3A / GW036: RING LASER GYRO COMPASS (AN/WSN-7B)]: These funds are required to support the acquisition, implementation and certification of the AN/WSN-7B Ring Laser Gyrocompass (RLG) for LSD ships. System peripherals include Sync Amps, BIT Cables, and installation kits.

[P3A / GW050: SCALABLE ECDIS-N]: These funds are required for procurement of Scalable ECDIS-N systems for surface combatants, amphibious ships and carriers.

[P3A / GW053: INERTIAL NAVIGATION SYSTEM (INS) MODERNIZATION]: These funds are required for modernization of Inertial Navigation Systems (INS) to address obsolescence and provide improved performance in support of Ballistic Missile Defense (BMD).

[P3A / GW055: AN/WSN-9 SPEED LOG PROCUREMENT]: These funds are for the procurement of AN/WSN-9 Speed Log upgrades on LSD ships.

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Other Navigation Equipment	P40A				117.385			19.802			20.127			26.079			-			26.079
1 - GW036: RING LASER GYRO COMPASS (AN/WSN-7B)	P3A				57.512			-			-			3.100			-			3.100
2 - GW050: SCALABLE ECDIS-N	P3A				29.565			0.780			3.265			3.295			-			3.295
3 - GW053: INERTIAL NAVIGATION SYSTEM (INS) MODERNIZATION	P3A				0.000			-			-			5.135			-			5.135
4 - GW055: AN/WSN-9 SPEED LOG PROCUREMENT	P3A				0.000			-			-			1.900			-			1.900
<b>Total Gross/Weapon System Cost</b>					<b>204.462</b>			<b>20.582</b>			<b>23.392</b>			<b>39.509</b>			<b>-</b>			<b>39.509</b>

Item Schedule		ID CD	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Other Navigation Equipment	P40A				-			-			-			-			-			-

**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 6: Navigation Equipment	<b>P-1 Line Item Nomenclature:</b> 0670 - Other Navigation Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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**MDAP/MAIS Code(s):**

Item Schedule		ID CD	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1 - GW036: RING LASER GYRO COMPASS (AN/WSN-7B)	P3A				2.664			0.403			-			-			-			63.679
2 - GW050: SCALABLE ECDIS-N	P3A				-			-			-			-			-			36.905
3 - GW053: INERTIAL NAVIGATION SYSTEM (INS) MODERNIZATION	P3A				7.321			8.403			8.574			18.719			20.680			68.832
4 - GW055: AN/WSN-9 SPEED LOG PROCUREMENT	P3A				3.400			3.900			-			-			-			9.200
<b>Total Gross/Weapon System Cost</b>					<b>41.392</b>			<b>40.974</b>			<b>32.298</b>			<b>42.378</b>			<b>20.680</b>			<b>465.667</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

**UNCLASSIFIED**

**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 6: Navigation Equipment

**P-1 Line Item Nomenclature:**  
0670 - Other Navigation Equipment

**Aggregated Item Name:**  
Other Navigation Equipment

Items	ID CD	MDAP/ MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)															
<b>1) GW013: CONVENTIONAL NAVIGATION FIELD CHANGE KITS</b>																				
1.1) SURFACE CONVENTIONAL NAVIGATION FC KITS	A		-	-	4.097	-	-	0.941	-	-	1.007	-	-	0.811	-	-	-	-	-	0.811
1.2) SUBMARINE CONVENTIONAL NAVIGATION FC KITS	A		-	-	10.404	-	-	3.004	-	-	2.882	-	-	2.911	-	-	-	-	-	2.911
<i>Subtotal 1) GW013: CONVENTIONAL NAVIGATION FIELD CHANGE KITS</i>					14.501			3.945			3.889			3.722			-			3.722
<b>2) GW029: INERTIAL NAVIGATION SYSTEMS FIELD CHANGE KITS</b>																				
2.1) SURFACE INERTIAL NAV SYS ECP/FC KITS	A		-	-	6.665	-	-	1.736	-	-	1.766	-	-	4.907	-	-	-	-	-	4.907
2.2) SUBMARINE INERTIAL NAV SYS ECP/FC KITS	A		-	-	18.593	-	-	4.183	-	-	3.984	-	-	3.869	-	-	-	-	-	3.869
2.3) CARRIER INERTIAL NAV SYS ECP/FC KITS	A		-	-	10.670	-	-	1.449	-	-	1.464	-	-	1.445	-	-	-	-	-	1.445
<i>Subtotal 2) GW029: INERTIAL NAVIGATION SYSTEMS FIELD CHANGE KITS</i>					35.928			7.368			7.214			10.221			-			10.221
<b>3) GW036: NAVIGATION SYSTEM PROCUREMENT- (AN/WSN-7B):</b>																				
3.1) SURFACE NAVIGATION SYSTEM PROCUREMENT (AN/WSN-7B)	A		-	-	1.579	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.2) SUBMARINE NAVIGATION SYSTEM PROCUREMENT (AN/WSN-7B)	A		-	-	1.160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.3) CARRIER NAVIGATION SYSTEM PROCUREMENT (AN/WSN-7B)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 3) GW036: NAVIGATION SYSTEM</i>					2.739			-			-			-			-			-

**UNCLASSIFIED**

**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 6: Navigation Equipment	<b>P-1 Line Item Nomenclature:</b> 0670 - Other Navigation Equipment	<b>Aggregated Item Name:</b> Other Navigation Equipment
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Items	ID CD	MDAP/ MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)															
<i>PROCUREMENT-(AN/ WSN-7B):</i>																				
<b>4) GW038: BPS ECDIS-N/ VMS FC KITS:</b>																				
4.1) SUBMARINE BPS ECDIS-N/VMS FC KITS:	A		-	-	28.636	-	-	4.145	-	-	4.035	-	-	4.061	-	-	-	-	-	4.061
<i>Subtotal 4) GW038: BPS ECDIS-N/VMS FC KITS:</i>					28.636			4.145			4.035			4.061						4.061
<b>5) GW051: SCALABLE ECDIS-N ECP/FIELD CHANGE KITS:</b>																				
5.1) SURFACE SCALABLE ECDIS-N ECP/FIELD CHANGE KITS:	A		-	-	8.525	-	-	3.431	-	-	2.861	-	-	5.931	-	-	-	-	-	5.931
5.2) CARRIER SCALABLE ECDIS-N ECP/FIELD CHANGE KITS:	A		-	-	5.801	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 5) GW051: SCALABLE ECDIS-N ECP/ FIELD CHANGE KITS:</i>					14.326			3.431			2.861			5.931						5.931
<b>6) GW052: ENHANCED INERTIAL NAVIGATION PERFORMANCE PROGRAM:</b>																				
6.1) SUBMARINE ENHANCED INERTIAL NAVIGATION PERFORMANCE PROGRAM	A		-	-	9.969	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 6) GW052: ENHANCED INERTIAL NAVIGATION PERFORMANCE PROGRAM:</i>					9.969			-			-			-						-
<b>7) GW054: NAVIGATION TRAINING EQUIPMENT</b>																				
7.1) SURFACE NAVIGATION TRAINING EQUIPMENT	A		-	-	-	-	-	0.600	-	-	0.602	-	-	0.605	-	-	-	-	-	0.605
7.2) New Cost Element			-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 7) GW054: NAVIGATION TRAINING EQUIPMENT</i>					0.000			0.600			0.602			0.605						0.605

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<b>Exhibit P-40A, Budget Item Justification For Aggregated Items:</b> PB 2014 Navy															<b>Date:</b> April 2013				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 6: Navigation Equipment										<b>P-1 Line Item Nomenclature:</b> 0670 - Other Navigation Equipment					<b>Aggregated Item Name:</b> Other Navigation Equipment				

Items	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>8) GW830: PRODUCTION ENGINEERING</b>																				
8.1) SURFACE PRODUCTION ENGINEERING	A		-	-	5.973	-	-	0.152	-	-	0.762	-	-	0.614	-	-	-	-	-	0.614
8.2) SUBMARINE PRODUCTION ENGINEERING	A		-	-	3.584	-	-	0.124	-	-	0.561	-	-	0.683	-	-	-	-	-	0.683
8.3) CARRIER PRODUCTION ENGINEERING	A		-	-	1.729	-	-	0.037	-	-	0.203	-	-	0.242	-	-	-	-	-	0.242
<i>Subtotal 8) GW830: PRODUCTION ENGINEERING</i>					11.286			0.313			1.526			1.539			-			1.539
<b>Total</b>					<b>117.385</b>			<b>19.802</b>			<b>20.127</b>			<b>26.079</b>			<b>-</b>			<b>26.079</b>

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**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 6: Navigation Equipment

**P-1 Line Item Nomenclature:**  
0670 - Other Navigation Equipment

**Aggregated Item Name:**  
Other Navigation Equipment

Items	ID CD	MDAP/ MAIS Code	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)															
<b>1) GW013: CONVENTIONAL NAVIGATION FIELD CHANGE KITS</b>																				
1.1) SURFACE CONVENTIONAL NAVIGATION FC KITS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2) SUBMARINE CONVENTIONAL NAVIGATION FC KITS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 1) GW013: CONVENTIONAL NAVIGATION FIELD CHANGE KITS</i>					-			-			-			-			-			-
<b>2) GW029: INERTIAL NAVIGATION SYSTEMS FIELD CHANGE KITS</b>																				
2.1) SURFACE INERTIAL NAV SYS ECP/FC KITS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.2) SUBMARINE INERTIAL NAV SYS ECP/FC KITS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.3) CARRIER INERTIAL NAV SYS ECP/FC KITS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) GW029: INERTIAL NAVIGATION SYSTEMS FIELD CHANGE KITS</i>					-			-			-			-			-			-
<b>3) GW036: NAVIGATION SYSTEM PROCUREMENT- (AN/WSN-7B):</b>																				
3.1) SURFACE NAVIGATION SYSTEM PROCUREMENT (AN/WSN-7B)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.2) SUBMARINE NAVIGATION SYSTEM PROCUREMENT (AN/WSN-7B)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.3) CARRIER NAVIGATION SYSTEM PROCUREMENT (AN/WSN-7B)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 3) GW036: NAVIGATION SYSTEM</i>					-			-			-			-			-			-

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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 6: Navigation Equipment

**P-1 Line Item Nomenclature:**  
0670 - Other Navigation Equipment

**Aggregated Item Name:**  
Other Navigation Equipment

Items	ID CD	MDAP/MAIS Code	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<i>PROCUREMENT-(AN/WSN-7B):</i>																				
<b>4) GW038: BPS ECDIS-N/VMS FC KITS:</b>																				
4.1) SUBMARINE BPS ECDIS-N/VMS FC KITS:	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 4) GW038: BPS ECDIS-N/VMS FC KITS:</i>																				
<b>5) GW051: SCALABLE ECDIS-N ECP/FIELD CHANGE KITS:</b>																				
5.1) SURFACE SCALABLE ECDIS-N ECP/FIELD CHANGE KITS:	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.2) CARRIER SCALABLE ECDIS-N ECP/FIELD CHANGE KITS:	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 5) GW051: SCALABLE ECDIS-N ECP/FIELD CHANGE KITS:</i>																				
<b>6) GW052: ENHANCED INERTIAL NAVIGATION PERFORMANCE PROGRAM:</b>																				
6.1) SUBMARINE ENHANCED INERTIAL NAVIGATION PERFORMANCE PROGRAM	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 6) GW052: ENHANCED INERTIAL NAVIGATION PERFORMANCE PROGRAM:</i>																				
<b>7) GW054: NAVIGATION TRAINING EQUIPMENT</b>																				
7.1) SURFACE NAVIGATION TRAINING EQUIPMENT	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.2) New Cost Element			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 7) GW054: NAVIGATION TRAINING EQUIPMENT</i>																				

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<b>Exhibit P-40A, Budget Item Justification For Aggregated Items:</b> PB 2014 Navy															<b>Date:</b> April 2013				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 6: Navigation Equipment										<b>P-1 Line Item Nomenclature:</b> 0670 - Other Navigation Equipment					<b>Aggregated Item Name:</b> Other Navigation Equipment				

Items	ID CD	MDAP/MAIS Code	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>8) GW830: PRODUCTION ENGINEERING</b>																				
8.1) SURFACE PRODUCTION ENGINEERING	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.2) SUBMARINE PRODUCTION ENGINEERING	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.3) CARRIER PRODUCTION ENGINEERING	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 8) GW830: PRODUCTION ENGINEERING</i>					-			-			-			-			-			-
<b>Total</b>					-			-			-			-			-			-

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 6: Navigation Equipment	<b>P-1 Line Item Nomenclature:</b> 0670 - Other Navigation Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - GW036: RING LASER GYRO COMPASS (AN/WSN-7B)

<b>Models of Systems Affected:</b> GW036 RING LASER GYRO NAVIGATION RING LASER GYROCOMPASS (AN/WSN-7B)	<b>Type Modification:</b> AN/WSN-7B	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	57.512	-	-	3.100	-	3.100	2.664	0.403	-	-	-	63.679
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	57.512	-	-	3.100	-	3.100	2.664	0.403	-	-	-	63.679
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>57.512</b>	-	-	<b>3.100</b>	-	<b>3.100</b>	<b>2.664</b>	<b>0.403</b>	-	-	-	<b>63.679</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

These funds are required to support the acquisition, implementation and certification of the AN/WSN-7B Ring Laser Gyrocompass (RLG) for LSD ships. System peripherals include Sync Amps, BIT Cables, and installation kits.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 6: Navigation Equipment	<b>P-1 Line Item Nomenclature:</b> 0670 - Other Navigation Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - GW036: RING LASER GYRO COMPASS (AN/WSN-7B)

<b>Models of Systems Affected:</b> GW036 RING LASER GYRO NAVIGATION RING LASER GYROCOMPASS (AN/WSN-7B)	<b>Type Modification:</b> AN/WSN-7B	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
GW036: RING LASER GYRO COMPASS (AN/WSN-7B)												
B Kits												
Recurring												
1.1.1) EQUIPMENT - NonOrganic	82 / 31.311	- / -	- / -	2 / 3.100	- / -	2 / 3.100	1 / 1.828	- / -	- / -	- / -	- / -	85 / 36.239
Subtotal Recurring	82 / 31.311	- / -	- / -	2 / 3.100	- / -	2 / 3.100	1 / 1.828	- / -	- / -	- / -	- / -	85 / 36.239
Total, GW036: RING LASER GYRO COMPASS (AN/WSN-7B)	82 / 31.311	- / -	- / -	2 / 3.100	- / -	2 / 3.100	1 / 1.828	- / -	- / -	- / -	- / -	85 / 36.239
Total Procurement, All Modifications	82 / 31.311	- / -	- / -	2 / 3.100	- / -	2 / 3.100	1 / 1.828	- / -	- / -	- / -	- / -	85 / 36.239
Total Procurement and Support	31.311	-	-	3.100	-	3.100	1.828	-	-	-	-	36.239
GW036: RING LASER GYRO COMPASS (AN/WSN-7B) Installation Cost	- / 26.201	- / -	- / -	- / -	- / -	- / -	- / 0.836	- / 0.403	- / -	- / -	- / -	- / 27.440
Total Installation Cost	- / 26.201	- / -	- / -	- / -	- / -	- / -	- / 0.836	- / 0.403	- / -	- / -	- / -	- / 27.440
<b>Total Cost (Procurement + Support + Installation)</b>	<b>57.512</b>	<b>-</b>	<b>-</b>	<b>3.100</b>	<b>-</b>	<b>3.100</b>	<b>2.664</b>	<b>0.403</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>63.679</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 6: Navigation Equipment	<b>P-1 Line Item Nomenclature:</b> 0670 - Other Navigation Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - GW036: RING LASER GYRO COMPASS (AN/WSN-7B)

<b>Models of Systems Affected:</b> GW036 RING LASER GYRO NAVIGATION RING LASER GYROCOMPASS (AN/WSN-7B)	<b>Type Modification:</b> AN/WSN-7B	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: GW036: RING LASER GYRO COMPASS (AN/WSN-7B)**

Manufacturer Name: NORTHROP GRUMMAN SYSYSTEMS CORP.	Manufacturer Location: CHARLOTTESVILLE, VA
Administrative Leadtime ( <i>in Months</i> ): 3	Production Leadtime ( <i>in Months</i> ): 13

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates			Mar 2014	Dec 2014			
Delivery Dates			Apr 2015	Jan 2016			

**Installation: GW036: RING LASER GYRO COMPASS (AN/WSN-7B) Method of Implementation: AIT Installation Name: EQUIPMENT**

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	82 / 26.201	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	82 / 26.201
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.836	- / -	- / -	- / -	- / -	2 / 0.836
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.403	- / -	- / -	- / -	1 / 0.403
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	82 / 26.201	- / -	- / -	- / -	- / -	- / -	2 / 0.836	1 / 0.403	- / -	- / -	- / -	85 / 27.440

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot	
		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	82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	85
Out	82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	85

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 6: Navigation Equipment	<b>P-1 Line Item Nomenclature:</b> 0670 - Other Navigation Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - GW050: SCALABLE ECDIS-N

<b>Models of Systems Affected:</b> GW050 SCALABLE ECDIS-N	<b>Type Modification:</b> SCALABLE ECDIS-N	<b>Related RDT&amp;E PEs:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	29.565	0.780	3.265	3.295	-	3.295	-	-	-	-	-	36.905
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	29.565	0.780	3.265	3.295	-	3.295	-	-	-	-	-	36.905
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>29.565</b>	<b>0.780</b>	<b>3.265</b>	<b>3.295</b>	<b>-</b>	<b>3.295</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>36.905</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

These funds are required for procurement of Scalable ECDIS-N systems for surface combatants, amphibious ships and carriers.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 6: Navigation Equipment	<b>P-1 Line Item Nomenclature:</b> 0670 - Other Navigation Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - GW050: SCALABLE ECDIS-N

<b>Models of Systems Affected:</b> GW050 SCALABLE ECDIS-N	<b>Type Modification:</b> SCALABLE ECDIS-N	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
GW050: SCALABLE ECDIS-N												
B Kits												
Recurring												
1.1.1) EQUIPMENT - NonOrganic	52 / 13.686	1 / 0.310	4 / 1.280	4 / 1.300	- / -	4 / 1.300	- / -	- / -	- / -	- / -	- / -	61 / 16.576
1.1.2) TRAINING EQUIPMENT - NonOrganic	5 / 1.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.500
<i>Subtotal Recurring</i>	<i>57 / 15.186</i>	<i>1 / 0.310</i>	<i>4 / 1.280</i>	<i>4 / 1.300</i>	<i>- / -</i>	<i>4 / 1.300</i>	<i>- / -</i>	<i>66 / 18.076</i>				
<i>Total, GW050: SCALABLE ECDIS-N</i>	<i>57 / 15.186</i>	<i>1 / 0.310</i>	<i>4 / 1.280</i>	<i>4 / 1.300</i>	<i>- / -</i>	<i>4 / 1.300</i>	<i>- / -</i>	<i>66 / 18.076</i>				
<b>Total Procurement, All Modifications</b>	<b>57 / 15.186</b>	<b>1 / 0.310</b>	<b>4 / 1.280</b>	<b>4 / 1.300</b>	<b>- / -</b>	<b>4 / 1.300</b>	<b>- / -</b>	<b>66 / 18.076</b>				
<b>Total Procurement and Support</b>	<b>15.186</b>	<b>0.310</b>	<b>1.280</b>	<b>1.300</b>	<b>-</b>	<b>1.300</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>18.076</b>
GW050: SCALABLE ECDIS-N Installation Cost	- / 14.379	- / 0.470	- / 1.985	- / 1.995	- / -	- / 1.995	- / -	- / -	- / -	- / -	- / -	- / 18.829
<b>Total Installation Cost</b>	<b>- / 14.379</b>	<b>- / 0.470</b>	<b>- / 1.985</b>	<b>- / 1.995</b>	<b>- / -</b>	<b>- / 1.995</b>	<b>- / -</b>	<b>- / 18.829</b>				
<b>Total Cost (Procurement + Support + Installation)</b>	<b>29.565</b>	<b>0.780</b>	<b>3.265</b>	<b>3.295</b>	<b>-</b>	<b>3.295</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>36.905</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 6: Navigation Equipment		<b>P-1 Line Item Nomenclature:</b> 0670 - Other Navigation Equipment
<b>Modification Nomenclature</b> (Modification Number - Modification Title): 2 - GW050: SCALABLE ECDIS-N		

<b>Models of Systems Affected:</b> GW050 SCALABLE ECDIS-N	<b>Type Modification:</b> SCALABLE ECDIS-N	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information: GW050: SCALABLE ECDIS-N</b>	
Manufacturer Name: NORTHROP GRUMMAN SYSYSTEMS CORP.	Manufacturer Location: CHARLOTTESVILLE, VA
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 6

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	May 2013	May 2013	Jan 2014				
Delivery Dates	Nov 2013	Nov 2013	Jul 2014				

<b>Installation:</b> GW050: SCALABLE ECDIS-N	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> EQUIPMENT
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	52 / 14.379	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	52 / 14.379
FY 2012	- / -	1 / 0.470	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.470
FY 2013	- / -	- / -	4 / 1.985	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.985
FY 2014	- / -	- / -	- / -	4 / 1.995	- / -	4 / 1.995	- / -	- / -	- / -	- / -	- / -	4 / 1.995
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	52 / 14.379	1 / 0.470	4 / 1.985	4 / 1.995	- / -	4 / 1.995	- / -	- / -	- / -	- / -	- / -	61 / 18.829

Installation Schedule																															
	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	52	-	-	-	1	-	-	-	4	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	61
Out	52	-	-	-	1	-	-	-	4	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	61

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 6: Navigation Equipment	<b>P-1 Line Item Nomenclature:</b> 0670 - Other Navigation Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - GW053: INERTIAL NAVIGATION SYSTEM (INS) MODERNIZATION

<b>Models of Systems Affected:</b> GW053 INERTIAL NAVIGATION SYSTEM (INS) MODERNIZATION	<b>Type Modification:</b> INERTIAL NAVIGATION SYSTEM (INS) MODERNIZATION	<b>Related RDT&amp;E PEs:</b> 0204228N
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	-	5.135	-	5.135	7.321	8.403	8.574	18.719	20.680	68.832
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	-	5.135	-	5.135	7.321	8.403	8.574	18.719	20.680	68.832
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	-	-	<b>5.135</b>	-	<b>5.135</b>	<b>7.321</b>	<b>8.403</b>	<b>8.574</b>	<b>18.719</b>	<b>20.680</b>	<b>68.832</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

These funds are required for modernization of Inertial Navigation Systems (INS) to address obsolescence and provide improved performance in support of Ballistic Missile Defense (BMD).

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 6: Navigation Equipment	<b>P-1 Line Item Nomenclature:</b> 0670 - Other Navigation Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - GW053: INERTIAL NAVIGATION SYSTEM (INS) MODERNIZATION

<b>Models of Systems Affected:</b> GW053 INERTIAL NAVIGATION SYSTEM (INS) MODERNIZATION	<b>Type Modification:</b> INERTIAL NAVIGATION SYSTEM (INS) MODERNIZATION	<b>Related RDT&amp;E PEs:</b> 0204228N
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
GW053: INERTIAL NAVIGATION SYSTEM (INS) MODERNIZATION												
B Kits												
Recurring												
1.1.1) EQUIPMENT - NonOrganic	- / -	- / -	- / -	5 / 2.600	- / -	5 / 2.600	7 / 3.745	8 / 4.280	8 / 4.353	13 / 14.432	13 / 10.660	54 / 40.070
<i>Subtotal Recurring</i>	- / -	- / -	- / -	5 / 2.600	- / -	5 / 2.600	7 / 3.745	8 / 4.280	8 / 4.353	13 / 14.432	13 / 10.660	54 / 40.070
<i>Total, GW053: INERTIAL NAVIGATION SYSTEM (INS) MODERNIZATION</i>	- / -	- / -	- / -	5 / 2.600	- / -	5 / 2.600	7 / 3.745	8 / 4.280	8 / 4.353	13 / 14.432	13 / 10.660	54 / 40.070
<i>Total Procurement, All Modifications</i>	- / -	- / -	- / -	5 / 2.600	- / -	5 / 2.600	7 / 3.745	8 / 4.280	8 / 4.353	13 / 14.432	13 / 10.660	54 / 40.070
<i>Total Procurement and Support</i>	-	-	-	2.600	-	2.600	3.745	4.280	4.353	14.432	10.660	40.070
GW053: INERTIAL NAVIGATION SYSTEM (INS) MODERNIZATION Installation Cost	- / 0.000	- / -	- / -	- / 2.535	- / -	- / 2.535	- / 3.576	- / 4.123	- / 4.221	- / 4.287	- / 10.020	- / 28.762
<i>Total Installation Cost</i>	- / 0.000	- / -	- / -	- / 2.535	- / -	- / 2.535	- / 3.576	- / 4.123	- / 4.221	- / 4.287	- / 10.020	- / 28.762
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>5.135</b>	<b>-</b>	<b>5.135</b>	<b>7.321</b>	<b>8.403</b>	<b>8.574</b>	<b>18.719</b>	<b>20.680</b>	<b>68.832</b>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 6: Navigation Equipment	<b>P-1 Line Item Nomenclature:</b> 0670 - Other Navigation Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - GW053: INERTIAL NAVIGATION SYSTEM (INS) MODERNIZATION

<b>Models of Systems Affected:</b> GW053 INERTIAL NAVIGATION SYSTEM (INS) MODERNIZATION	<b>Type Modification:</b> INERTIAL NAVIGATION SYSTEM (INS) MODERNIZATION	<b>Related RDT&amp;E PEs:</b> 0204228N
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**Manufacturer Information: GW053: INERTIAL NAVIGATION SYSTEM (INS) MODERNIZATION**

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime ( <i>in Months</i> ): 3	Production Leadtime ( <i>in Months</i> ): 6

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates			Dec 2013	Dec 2014	Dec 2015	Dec 2016	Dec 2017
Delivery Dates			Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018

<b>Installation:</b> GW053: INERTIAL NAVIGATION SYSTEM (INS) MODERNIZATION	<b>Method of Implementation:</b> [none specified]	<b>Installation Name:</b> EQUIPMENT
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	5 / 2.535	- / -	5 / 2.535	- / -	- / -	- / -	- / -	- / -	5 / 2.535
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	7 / 3.576	- / -	- / -	- / -	- / -	7 / 3.576
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 4.123	- / -	- / -	- / -	8 / 4.123
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 4.221	- / -	- / -	8 / 4.221
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 4.287	5 / 2.783	13 / 7.070
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 7.237	13 / 7.237
Total	- / -	- / -	- / -	5 / 2.535	- / -	5 / 2.535	7 / 3.576	8 / 4.123	8 / 4.221	8 / 4.287	18 / 10.020	54 / 28.762

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	2	-	-	4	3	-	-	4	4	-	-	4	4	-	-	4	4	18	54
Out	-	-	-	-	-	-	-	-	-	-	-	3	2	-	-	4	3	-	-	4	4	-	-	4	4	-	-	4	4	18	54

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 6: Navigation Equipment	<b>P-1 Line Item Nomenclature:</b> 0670 - Other Navigation Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - GW055: AN/WSN-9 SPEED LOG PROCUREMENT

<b>Models of Systems Affected:</b> GW055 AN/WSN-9 SPEED LOG PROCUREMENT	<b>Type Modification:</b> AN/WSN-9 SPEED LOG PROCUREMENT	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	-	1.900	-	1.900	3.400	3.900	-	-	-	9.200
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	-	1.900	-	1.900	3.400	3.900	-	-	-	9.200
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	-	-	<b>1.900</b>	-	<b>1.900</b>	<b>3.400</b>	<b>3.900</b>	-	-	-	<b>9.200</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

These funds are for the procurement of AN/WSN-9 Speed Log upgrades on LSD ships.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 6: Navigation Equipment	<b>P-1 Line Item Nomenclature:</b> 0670 - Other Navigation Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - GW055: AN/WSN-9 SPEED LOG PROCUREMENT

<b>Models of Systems Affected:</b> GW055 AN/WSN-9 SPEED LOG PROCUREMENT	<b>Type Modification:</b> AN/WSN-9 SPEED LOG PROCUREMENT	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
GW055: AN/WSN-9 SPEED LOG PROCUREMENT												
B Kits												
Recurring												
1.1.1) EQUIPMENT - NonOrganic	- / -	- / -	- / -	4 / 1.675	- / -	4 / 1.675	4 / 2.240	4 / 2.465	- / -	- / -	- / -	12 / 6.380
<i>Subtotal Recurring</i>	- / -	- / -	- / -	4 / 1.675	- / -	4 / 1.675	4 / 2.240	4 / 2.465	- / -	- / -	- / -	12 / 6.380
<i>Total, GW055: AN/WSN-9 SPEED LOG PROCUREMENT</i>	- / -	- / -	- / -	4 / 1.675	- / -	4 / 1.675	4 / 2.240	4 / 2.465	- / -	- / -	- / -	12 / 6.380
<i>Total Procurement, All Modifications</i>	- / -	- / -	- / -	4 / 1.675	- / -	4 / 1.675	4 / 2.240	4 / 2.465	- / -	- / -	- / -	12 / 6.380
<i>Total Procurement and Support</i>	-	-	-	1.675	-	1.675	2.240	2.465	-	-	-	6.380
GW055: AN/WSN-9 SPEED LOG PROCUREMENT Installation Cost	- / 0.000	- / -	- / -	- / 0.225	- / -	- / 0.225	- / 1.160	- / 1.435	- / -	- / -	- / -	- / 2.820
<i>Total Installation Cost</i>	- / 0.000	- / -	- / -	- / 0.225	- / -	- / 0.225	- / 1.160	- / 1.435	- / -	- / -	- / -	- / 2.820
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	-	-	<b>1.900</b>	-	<b>1.900</b>	<b>3.400</b>	<b>3.900</b>	-	-	-	<b>9.200</b>



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**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes	<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	414.936	64.033	53.809	52.515	-	52.515	78.001	66.245	49.111	61.450	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	414.936	64.033	53.809	52.515	-	52.515	78.001	66.245	49.111	61.450	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>414.936</b>	<b>64.033</b>	<b>53.809</b>	<b>52.515</b>	<b>-</b>	<b>52.515</b>	<b>78.001</b>	<b>66.245</b>	<b>49.111</b>	<b>61.450</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	0.706	0.830	0.871	-	0.871	1.997	2.474	1.141	0.235	Continuing	Continuing
Flyaway Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

The Submarine Periscopes and Imaging Equipment Program procures the Type 18 and Type 8 periscope upgrades; all variants of Photonics Mast (PM), including Low Profile Photonics Mast (LPPM) and 360 degree imaging capability and incorporates it 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. An ISIS capability development document (CDD) was approved 22 Dec, 2011. The CDD is used to fully integrate the ISIS program of record into the submarines force rapid insertion technology process and to incorporate Fleet-endorsed requirements such as LPPM that are not levied by the ISIS Operational Requirements Documents. 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, both inboard hardware and software, 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 and LPPM.

PL010 - Imaging ISIS Technical Insertions - Beginning FY14 funding procures Imaging systems and Technical Insertion kits and spares to upgrade ISIS systems on LOS ANGELES, SEAWOLF, VA and OHIO Class SSGN platforms to allow for Capability Insertion and obsolescence avoidance.

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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes		<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
<b>MDAP/MAIS Code(s):</b>		
<p>PL011 - Imaging Block Upgrades - FY14 funding continues procurement of Periscopes and Imaging Equipment reliability, capability, and maintainability upgrades, e.g., Type 18 service life extension, Eyepiece Box, periscope mechanical hoisting mechanism upgrades, inboard electronic processing hardware and associated Integrated Logistics Support (ILS), Robust Surveillance Program, Certification of regional repair centers for Imaging System maintenance and technical data. Variable quantities and types are bought in each fiscal year.</p> <p>PL012 - Funds procure replacement in support of Special Support Equipment (SSE) for each maintenance level to ensure systems are maintained in a state of operational readiness. Equipment includes Q-Band Test Equipment, Mast Dynamic Collimator, Eyebox/Mast Test Set, and Antenna/Outer Head Simulator required due to obsolescence and age of existing imaging systems SSE.</p> <p>PL015 - Funding is for Interim Contract Support provided by the periscope manufacturer. The majority of the funding is for Type18 service life extension and depot repair for all configurations of Photonics Masts. It also funds all levels of repairs for all types of tactical submarine imaging systems.</p> <p>PL016 - Funding is for imaging systems training requirements to include curriculum development, training materials, and initial factory training pilot course conduct, Navy Training Plans, and instructor advisory services.</p> <p>PL022 - Funding is for the procurement of SSN ISIS Imaging Systems. ISIS provides for the modernization of imaging systems to improve imaging capabilities for the submarine force in support of ISR requirements. This includes the integration of 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>PL023 - Funding is for the procurement and support of VIRGINIA Class ISIS Imaging Systems, as well as, Technical Insertions required for sustainment of VIRGINIA Class platforms. For FY13 and prior years this includes the integration of the Mast Technical Insertions into the Photonics Mast. These systems support submarine force ISR requirements through the modernization of legacy hardware which allows for Capability Insertion, obsolescence avoidance, and improved system reliability.</p> <p>PL024 - Funding is for the procurement and support of VIRGINIA Class Photonics land based spares and associated components. These spares will be used for replacement of tactical Photonics masts on VIRGINIA class Submarines in the event of catastrophic failure.</p> <p>PL025 - Funding is for the procurement; support and technical insertion of VIRGINIA Class LPPM production and land based spares and associated components. The spares will be used for replacement of LP masts on VIRGINIA class Submarines in the event of catastrophic failure.</p> <p>PL830 - Production Engineering funds provide the following functions: value engineering; review and evaluation of production design data and documentation; production configuration control; maintenance engineering efforts designed and incorporated into the production manufacturing process, and other related engineering functions that are integral to all of the Imaging Systems and ancillary components.</p> <p>PL900 - Imaging Systems engineering, technical and maintenance services funds provide the following functions: In-Service engineering and technical support to deployed Periscope and Imaging Equipment, imaging system installation and integration planning, SHIPALT and TEMPALT technical data preparation, production hardware design review, engineering/technical support for installations, training materials development, field engineering and technical problem resolution, block upgrade installation planning, configuration management, and maintenance planning including inventory, management, repair, and restoration scheduling.</p> <p>PL5IN - Funding is for the installation of Fleet Modernization Program Equipment.</p>		

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**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes

**P-1 Line Item Nomenclature:**  
0831 - Sub Periscopes & Imaging Equip

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
SUBMARINE PERISCOPES & IMAGING EQUIPMENT	P40A, P5A				73.889			18.219			19.325			15.853			-			15.853
1 - PL010 - Imaging ISIS Technical Insertion	P3A				0.000			-			-			23.880			-			23.880
2 - PL011 Imaging Block Upgrades/Technical Insertions Imaging: Type 8/ Type 18	P3A				19.344			0.340			0.346			0.351			-			0.351
3 - PL011 Imaging Block Upgrades/Technical Insertions Imaging: ISIS	P3A				17.491			16.640			8.721			1.776			-			1.776
4 - PL022 Integrated Submarine Imaging System (ISIS) Increment I Capability Insertion	P3A				278.105			6.930			10.731			1.045			-			1.045
5 - PL023 VIRGINIA Class Imaging Modernization AN/ BVS-1 ISIS	P3A				21.364			19.963			10.269			1.186			-			1.186
6 - PL023 VIRGINIA Class Imaging Modernization AN/ BVS-1 MAST Tech Insertion	P3A				4.743			1.941			4.417			0.213			-			0.213
7 - PL025 Low Profile Photonics Mast (LPPM)	P3A				0.000			-			-			8.211			-			8.211
<b>Total Gross/Weapon System Cost</b>					<b>414.936</b>			<b>64.033</b>			<b>53.809</b>			<b>52.515</b>			<b>-</b>			<b>52.515</b>

Item Schedule		ID CD	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
SUBMARINE PERISCOPES & IMAGING EQUIPMENT	P40A, P5A				-			-			-			-			-			-
1 - PL010 - Imaging ISIS Technical Insertion	P3A				36.467			32.991			29.782			32.351			4.761			160.232
2 - PL011 Imaging Block Upgrades/Technical Insertions Imaging: Type 8/ Type 18	P3A				0.357			0.363			0.369			0.375			0.122			21.967
3 - PL011 Imaging Block Upgrades/Technical Insertions Imaging: ISIS	P3A				-			-			-			-			-			44.628



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Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy																	Date: April 2013			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes						P-1 Line Item Nomenclature: 0831 - Sub Periscopes & Imaging Equip						Aggregated Item Name: SUBMARINE PERISCOPES & IMAGING EQUIPMENT								
Items († indicates the presence of a P-5A)	ID CD	MDAP/ MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) PL012 PERISCOPE SPECIAL SUPPORT EQUIPMENT</b>																				
1.1) SPECIAL SUPPORT EQUIPMENT	A		-	-	3.855	-	-	0.501	-	-	0.509	-	-	0.518	-	-	-	-	-	0.518
<i>Subtotal 1) PL012 PERISCOPE SPECIAL SUPPORT EQUIPMENT</i>							3.855			0.501			0.518			-				0.518
<b>2) PL015 PERISCOPE INTERIM CONTRACTOR SUPPORT</b>																				
2.1) INTERIM CONTRACTOR SUPPORT	A		-	-	42.586	-	-	9.629	-	-	14.868	-	-	11.320	-	-	-	-	-	11.320
<i>Subtotal 2) PL015 PERISCOPE INTERIM CONTRACTOR SUPPORT</i>							42.586			9.629			11.320			-				11.320
<b>3) PL016 PERISCOPE TRAINING</b>																				
3.1) TRAINING	A		-	-	0.943	-	-	0.167	-	-	0.169	-	-	0.172	-	-	-	-	-	0.172
<i>Subtotal 3) PL016 PERISCOPE TRAINING</i>							0.943			0.167			0.172			-				0.172
<b>4) PL023 VA CLASS IMAGING MODERIZATION</b>																				
4.1) TI - PHOTONICS MAST WS PRODUCTION SUPPORT	A		-	-	5.025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 4) PL023 VA CLASS IMAGING MODERIZATION</i>							5.025			-			-			-				-
<b>5) PL024 PHOTONICS SPARES</b>																				
† 5.1) SPARES	A		-	-	-	4,157K	1	4.157	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 5) PL024 PHOTONICS SPARES</i>							-			4.157			-			-				-
<b>6) PL830 PERISCOPE PRODUCTION ENGINEERING</b>																				
6.1) PRODUCTION ENGINEERING	A		-	-	18.230	-	-	3.345	-	-	3.401	-	-	3.459	-	-	-	-	-	3.459
<i>Subtotal 6) PL830 PERISCOPE</i>							18.230			3.345			3.401			-				3.459

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<b>Exhibit P-40A, Budget Item Justification For Aggregated Items:</b> PB 2014 Navy															<b>Date:</b> April 2013					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes					<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip					<b>Aggregated Item Name:</b> SUBMARINE PERISCOPES & IMAGING EQUIPMENT										
Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
PRODUCTION ENGINEERING																				
<b>7) PL900 PERISCOPE CONSULTING SERVICES</b>																				
7.1) CONSULTING SERVICES	A		-	-	3.250	-	-	0.420	-	-	0.378	-	-	0.384	-	-	-	-	-	0.384
Subtotal 7) PL900 PERISCOPE CONSULTING SERVICES					3.250			0.420			0.378			0.384			-			0.384
<b>Total</b>					<b>73.889</b>			<b>18.219</b>			<b>19.325</b>			<b>15.853</b>			-			<b>15.853</b>

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Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy																Date: April 2013				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes						P-1 Line Item Nomenclature: 0831 - Sub Periscopes & Imaging Equip						Aggregated Item Name: SUBMARINE PERISCOPES & IMAGING EQUIPMENT								
Items († indicates the presence of a P-5A)	ID CD	MDAP/ MAIS Code	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) PL012 PERISCOPE SPECIAL SUPPORT EQUIPMENT</b>																				
1.1) SPECIAL SUPPORT EQUIPMENT	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 1) PL012 PERISCOPE SPECIAL SUPPORT EQUIPMENT</i>					-			-			-			-			-			-
<b>2) PL015 PERISCOPE INTERIM CONTRACTOR SUPPORT</b>																				
2.1) INTERIM CONTRACTOR SUPPORT	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) PL015 PERISCOPE INTERIM CONTRACTOR SUPPORT</i>					-			-			-			-			-			-
<b>3) PL016 PERISCOPE TRAINING</b>																				
3.1) TRAINING	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 3) PL016 PERISCOPE TRAINING</i>					-			-			-			-			-			-
<b>4) PL023 VA CLASS IMAGING MODERIZATION</b>																				
4.1) TI - PHOTONICS MAST WS PRODUCTION SUPPORT	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 4) PL023 VA CLASS IMAGING MODERIZATION</i>					-			-			-			-			-			-
<b>5) PL024 PHOTONICS SPARES</b>																				
† 5.1) SPARES	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 5) PL024 PHOTONICS SPARES</i>					-			-			-			-			-			-
<b>6) PL830 PERISCOPE PRODUCTION ENGINEERING</b>																				
6.1) PRODUCTION ENGINEERING	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 6) PL830 PERISCOPE</i>					-			-			-			-			-			-

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<b>Exhibit P-40A, Budget Item Justification For Aggregated Items:</b> PB 2014 Navy															<b>Date:</b> April 2013					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes					<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip										<b>Aggregated Item Name:</b> SUBMARINE PERISCOPES & IMAGING EQUIPMENT					
Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
PRODUCTION ENGINEERING																				
<b>7) PL900 PERISCOPE CONSULTING SERVICES</b>																				
7.1) CONSULTING SERVICES	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal 7) PL900 PERISCOPE CONSULTING SERVICES					-			-			-			-			-			-
<b>Total</b>					-			-			-			-			-			-

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<b>Exhibit P-5A, Budget Procurement History and Planning:</b> PB 2014 Navy								<b>Date:</b> April 2013				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes			<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip					<b>Aggregated Item Name:</b> SUBMARINE PERISCOPES & IMAGING EQUIPMENT				
Items	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>5) PL024 PHOTONICS SPARES</b>												
5.1) SPARES		2012	Keo / Northampton, MA	SS / FFP	NAVSEA	Mar 2012	May 2013	1	4,157K	Y		Sep 2010

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes	<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - PL010 - Imaging ISIS Technical Insertion

<b>Models of Systems Affected:</b> ISIS TI			<b>Type Modification:</b> ORDALT				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	-	23.880	-	23.880	36.467	32.991	29.782	32.351	4.761	160.232
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	-	23.880	-	23.880	36.467	32.991	29.782	32.351	4.761	160.232
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	-	-	<b>23.880</b>	-	<b>23.880</b>	<b>36.467</b>	<b>32.991</b>	<b>29.782</b>	<b>32.351</b>	<b>4.761</b>	<b>160.232</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Provides for the modernization of Imaging systems and Technical Insertion kits to upgrade ISIS systems on LOS ANGELES, SEAWOLF, VA and OHIO Class SSGN platforms in support of Intelligence, Surveillance and Reconnaissance (ISR) requirements.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes	<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - PL010 - Imaging ISIS Technical Insertion

<b>Models of Systems Affected:</b> ISIS TI	<b>Type Modification:</b> ORDALT	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
PL010 - Imaging ISIS Technical Insertion												
B Kits												
Recurring												
1.1.1) ISIS TECHNICAL INSERTION - NonOrganic	- / -	- / -	- / -	6 / 9.655	- / -	6 / 9.655	10 / 18.122	12 / 13.365	9 / 14.604	13 / 14.379	- / -	50 / 70.125
<i>Subtotal Recurring</i>	- / -	- / -	- / -	6 / 9.655	- / -	6 / 9.655	10 / 18.122	12 / 13.365	9 / 14.604	13 / 14.379	- / -	50 / 70.125
<i>Total, PL010 - Imaging ISIS Technical Insertion</i>	- / -	- / -	- / -	6 / 9.655	- / -	6 / 9.655	10 / 18.122	12 / 13.365	9 / 14.604	13 / 14.379	- / -	50 / 70.125
<i>Total Procurement, All Modifications</i>	- / -	- / -	- / -	6 / 9.655	- / -	6 / 9.655	10 / 18.122	12 / 13.365	9 / 14.604	13 / 14.379	- / -	50 / 70.125
<b>Support</b>												
2.1) ISIS TECHNICAL INSERTION NRE	- / -	- / -	- / -	- / 14.225	- / -	- / 14.225	- / 16.105	- / 15.684	- / 11.446	- / 14.680	- / -	- / 72.140
<i>Total Support, All Modifications</i>	-	-	-	14.225	-	14.225	16.105	15.684	11.446	14.680	-	72.140
<i>Total Procurement and Support</i>	-	-	-	23.880	-	23.880	34.227	29.049	26.050	29.059	-	142.265
PL010 - Imaging ISIS Technical Insertion Installation Cost	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 2.240	- / 3.942	- / 3.732	- / 3.292	- / 4.761	- / 17.967
<i>Total Installation Cost</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 2.240	- / 3.942	- / 3.732	- / 3.292	- / 4.761	- / 17.967
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	-	-	<b>23.880</b>	-	<b>23.880</b>	<b>36.467</b>	<b>32.991</b>	<b>29.782</b>	<b>32.351</b>	<b>4.761</b>	<b>160.232</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes	<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - PL010 - Imaging ISIS Technical Insertion

<b>Models of Systems Affected:</b> ISIS TI	<b>Type Modification:</b> ORDALT	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: PL010 - Imaging ISIS Technical Insertion**

Manufacturer Name: LMC	Manufacturer Location: Manassas, VA
Administrative Leadtime ( <i>in Months</i> ): 6	Production Leadtime ( <i>in Months</i> ): 12

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates			Mar 2014	Mar 2015	Mar 2016	Mar 2017	Mar 2018
Delivery Dates			Mar 2015	Mar 2016	Mar 2017	Mar 2018	Mar 2019

**Installation: PL010 - Imaging ISIS Technical Insertion**      **Method of Implementation:** AIT      **Installation Name:** ISIS TECHNICAL INSERTION

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.240	- / -	- / -	- / -	- / -	6 / 2.240
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 3.942	- / -	- / -	- / -	10 / 3.942
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 3.732	- / -	- / -	12 / 3.732
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 3.292	- / -	9 / 3.292
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 4.761	13 / 4.761
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.240	10 / 3.942	12 / 3.732	9 / 3.292	13 / 4.761	50 / 17.967

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	2	1	-	3	4	3	-	3	5	4	-	4	3	2	13	50
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	1	-	3	4	3	-	3	5	4	-	4	3	2	13	50

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes	<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - PL011 Imaging Block Upgrades/ Technical Insertions Imaging: Type 8/ Type 18

<b>Models of Systems Affected:</b> TYPE 8/TYPE 18	<b>Type Modification:</b> ORDALT	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	19.344	0.340	0.346	0.351	-	0.351	0.357	0.363	0.369	0.375	0.122	21.967
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	19.344	0.340	0.346	0.351	-	0.351	0.357	0.363	0.369	0.375	0.122	21.967
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>19.344</b>	<b>0.340</b>	<b>0.346</b>	<b>0.351</b>	<b>-</b>	<b>0.351</b>	<b>0.357</b>	<b>0.363</b>	<b>0.369</b>	<b>0.375</b>	<b>0.122</b>	<b>21.967</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Provides obsolescence related upgrades for Submarine Periscope.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes	<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - PL011 Imaging Block Upgrades/ Technical Insertions Imaging: Type 8/ Type 18

<b>Models of Systems Affected:</b> TYPE 8/TYPE 18	<b>Type Modification:</b> ORDALT	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
PL011 Imaging Block Upgrades/Technical Insertions Imaging: Type 8/Type 18												
B Kits												
Recurring												
1.1.1) TYPE 8/TYPE 18 - NonOrganic <sup>(1)</sup>	62 / 14.737	1 / 0.231	1 / 0.235	1 / 0.239	- / -	1 / 0.239	1 / 0.243	1 / 0.247	1 / 0.251	1 / 0.255	- / -	69 / 16.438
<b>Subtotal Recurring</b>	<b>62 / 14.737</b>	<b>1 / 0.231</b>	<b>1 / 0.235</b>	<b>1 / 0.239</b>	<b>- / -</b>	<b>1 / 0.239</b>	<b>1 / 0.243</b>	<b>1 / 0.247</b>	<b>1 / 0.251</b>	<b>1 / 0.255</b>	<b>- / -</b>	<b>69 / 16.438</b>
<i>Total, PL011 Imaging Block Upgrades/Technical Insertions Imaging: Type 8/Type 18</i>	<i>62 / 14.737</i>	<i>1 / 0.231</i>	<i>1 / 0.235</i>	<i>1 / 0.239</i>	<i>- / -</i>	<i>1 / 0.239</i>	<i>1 / 0.243</i>	<i>1 / 0.247</i>	<i>1 / 0.251</i>	<i>1 / 0.255</i>	<i>- / -</i>	<i>69 / 16.438</i>
<b>Total Procurement, All Modifications</b>	<b>62 / 14.737</b>	<b>1 / 0.231</b>	<b>1 / 0.235</b>	<b>1 / 0.239</b>	<b>- / -</b>	<b>1 / 0.239</b>	<b>1 / 0.243</b>	<b>1 / 0.247</b>	<b>1 / 0.251</b>	<b>1 / 0.255</b>	<b>- / -</b>	<b>69 / 16.438</b>
<b>Total Procurement and Support</b>	<b>14.737</b>	<b>0.231</b>	<b>0.235</b>	<b>0.239</b>	<b>-</b>	<b>0.239</b>	<b>0.243</b>	<b>0.247</b>	<b>0.251</b>	<b>0.255</b>	<b>-</b>	<b>16.438</b>
PL011 Imaging Block Upgrades/Technical Insertions Imaging: Type 8/Type 18 Installation Cost	- / 4.607	- / 0.109	- / 0.111	- / 0.112	- / -	- / 0.112	- / 0.114	- / 0.116	- / 0.118	- / 0.120	- / 0.122	- / 5.529
<b>Total Installation Cost</b>	<b>- / 4.607</b>	<b>- / 0.109</b>	<b>- / 0.111</b>	<b>- / 0.112</b>	<b>- / -</b>	<b>- / 0.112</b>	<b>- / 0.114</b>	<b>- / 0.116</b>	<b>- / 0.118</b>	<b>- / 0.120</b>	<b>- / 0.122</b>	<b>- / 5.529</b>
<b>Total Cost (Procurement + Support + Installation)</b>	<b>19.344</b>	<b>0.340</b>	<b>0.346</b>	<b>0.351</b>	<b>-</b>	<b>0.351</b>	<b>0.357</b>	<b>0.363</b>	<b>0.369</b>	<b>0.375</b>	<b>0.122</b>	<b>21.967</b>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes	<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - PL011 Imaging Block Upgrades/ Technical Insertions Imaging: Type 8/ Type 18

<b>Models of Systems Affected:</b> TYPE 8/TYPE 18	<b>Type Modification:</b> ORDALT	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information:** PL011 Imaging Block Upgrades/Technical Insertions Imaging: Type 8/Type 18

Manufacturer Name: Multiple Vendors      Manufacturer Location: Various

Administrative Leadtime (*in Months*): 6      Production Leadtime (*in Months*): 14

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Mar 2012	Mar 2013	Mar 2014	Mar 2015	Mar 2016	Mar 2017	Mar 2018
Delivery Dates	May 2013	May 2014	May 2015	May 2016	May 2017	May 2018	May 2019

**Installation:** PL011 Imaging Block Upgrades/Technical Insertions Imaging: Type 8/Type 18      **Method of Implementation:** AIT      **Installation Name:** TYPE 8/TYPE 18

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	61 / 4.607	1 / 0.109	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	62 / 4.716
FY 2012	- / -	- / -	1 / 0.111	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.111
FY 2013	- / -	- / -	- / -	1 / 0.112	- / -	1 / 0.112	- / -	- / -	- / -	- / -	- / -	1 / 0.112
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.114	- / -	- / -	- / -	- / -	1 / 0.114
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.116	- / -	- / -	- / -	1 / 0.116
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.118	- / -	- / -	1 / 0.118
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.120	- / -	1 / 0.120
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.122	1 / 0.122
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	61 / 4.607	1 / 0.109	1 / 0.111	1 / 0.112	- / -	1 / 0.112	1 / 0.114	1 / 0.116	1 / 0.118	1 / 0.120	1 / 0.122	69 / 5.529

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot								
		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	61	-	-	1	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	1	69
Out	61	-	-	1	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	1	69

**Footnotes:**  
(1) Imaging Block Upgrades are procured in variable quantities and types, and are bought from a variety of vendors in each fiscal year.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes	<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - PL011 Imaging Block Upgrades/ Technical Insertions Imaging: ISIS

<b>Models of Systems Affected:</b> ISIS IMAGING BLOCK UPGRADES/TECHNICAL INSERTIONS	<b>Type Modification:</b> ORDALT	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	17.491	16.640	8.721	1.776	-	1.776	-	-	-	-	-	44.628
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	17.491	16.640	8.721	1.776	-	1.776	-	-	-	-	-	44.628
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>17.491</b>	<b>16.640</b>	<b>8.721</b>	<b>1.776</b>	<b>-</b>	<b>1.776</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>44.628</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes	<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - PL011 Imaging Block Upgrades/ Technical Insertions Imaging: ISIS

<b>Models of Systems Affected:</b> ISIS IMAGING BLOCK UPGRADES/TECHNICAL INSERTIONS	<b>Type Modification:</b> ORDALT	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
PL011 Imaging Block Upgrades/Technical Insertions Imaging: ISIS												
B Kits												
Recurring												
1.1.1) TI-10 - NonOrganic	10 / 9.367	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 9.367
1.1.2) TECHNICAL INSERTIONS - NonOrganic	- / -	3 / 2.778	6 / 5.676	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 8.454
<b>Subtotal Recurring</b>	10 / 9.367	3 / 2.778	6 / 5.676	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 17.821
<i>Total, PL011 Imaging Block Upgrades/Technical Insertions Imaging: ISIS</i>	10 / 9.367	3 / 2.778	6 / 5.676	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 17.821
<b>Total Procurement, All Modifications</b>	10 / 9.367	3 / 2.778	6 / 5.676	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 17.821
<b>Support</b>												
2.1) TECHNICAL INSERTION NRE	- / 6.309	- / 10.876	- / 2.172	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.357
<b>Total Support, All Modifications</b>	6.309	10.876	2.172	-	-	-	-	-	-	-	-	19.357
<b>Total Procurement and Support</b>	15.676	13.654	7.848	-	-	-	-	-	-	-	-	37.178
PL011 Imaging Block Upgrades/Technical Insertions Imaging: ISIS Installation Cost	- / 1.815	- / 2.986	- / 0.873	- / 1.776	- / -	- / 1.776	- / -	- / -	- / -	- / -	- / -	- / 7.450
<b>Total Installation Cost</b>	- / 1.815	- / 2.986	- / 0.873	- / 1.776	- / -	- / 1.776	- / -	- / -	- / -	- / -	- / -	- / 7.450
<b>Total Cost (Procurement + Support + Installation)</b>	17.491	16.640	8.721	1.776	-	1.776	-	-	-	-	-	44.628

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes	<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - PL011 Imaging Block Upgrades/ Technical Insertions Imaging: ISIS

<b>Models of Systems Affected:</b> ISIS IMAGING BLOCK UPGRADES/TECHNICAL INSERTIONS	<b>Type Modification:</b> ORDALT	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: PL011 Imaging Block Upgrades/Technical Insertions Imaging: ISIS**

Manufacturer Name: LMC				Manufacturer Location: Manassas, VA			
Administrative Leadtime ( <i>in Months</i> ): 6				Production Leadtime ( <i>in Months</i> ): 12			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates	May 2012	Mar 2013					
Delivery Dates	May 2013	Mar 2014					

<b>Installation:</b> PL011 Imaging Block Upgrades/Technical Insertions Imaging: ISIS	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> TI-10
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<b>Installation Cost</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO</b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	3 / 1.815	7 / 2.986	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 4.801
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	3 / 1.815	7 / 2.986	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 4.801

<b>Installation Schedule</b>																															
	<b>APY</b>	<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>TC</b>	<b>Tot</b>
		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>																										
In	3	2	1	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10			
Out	3	2	1	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10			

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes	<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - PL011 Imaging Block Upgrades/ Technical Insertions Imaging: ISIS
<b>Models of Systems Affected:</b> ISIS IMAGING BLOCK UPGRADES/TECHNICAL INSERTIONS	<b>Type Modification:</b> ORDALT	<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> PL011 Imaging Block Upgrades/Technical Insertions Imaging: ISIS	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> TECHNICAL INSERTIONS
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	3 / 0.873	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.873
FY 2013	- / -	- / -	- / -	6 / 1.776	- / -	6 / 1.776	- / -	- / -	- / -	- / -	- / -	6 / 1.776
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	3 / 0.873	6 / 1.776	- / -	6 / 1.776	- / -	- / -	- / -	- / -	- / -	9 / 2.649

Installation Schedule																															
	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	
Out	-	-	-	-	-	-	-	2	1	-	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes	<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - PL022 Integrated Submarine Imaging System (ISIS) Increment I Capability Insertion

<b>Models of Systems Affected:</b> ISIS INCREMENT I	<b>Type Modification:</b> SHIPALT	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	278.105	6.930	10.731	1.045	-	1.045	-	-	-	-	-	296.811
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	278.105	6.930	10.731	1.045	-	1.045	-	-	-	-	-	296.811
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>278.105</b>	<b>6.930</b>	<b>10.731</b>	<b>1.045</b>	<b>-</b>	<b>1.045</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>296.811</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Provides for the modernization of submarine imaging systems to improve imaging capabilities in support of Intelligence, Surveillance and Reconnaissance (ISR) requirements.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes	<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - PL022 Integrated Submarine Imaging System (ISIS) Increment I Capability Insertion

<b>Models of Systems Affected:</b> ISIS INCREMENT I	<b>Type Modification:</b> SHIPALT	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
PL022 Integrated Submarine Imaging System (ISIS) Increment I Capability Insertion												
B Kits												
Recurring												
1.1.1) ISIS CAPABILITY INSERTION - NonOrganic	44 / 202.262	1 / 3.825	2 / 7.783	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	47 / 213.870
1.1.2) CAPABILITY INSERTION SPARES/CCM - Organic	8 / 27.357	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 27.357
<i>Subtotal Recurring</i>	52 / 229.619	1 / 3.825	2 / 7.783	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 241.227
<i>Total, PL022 Integrated Submarine Imaging System (ISIS) Increment I Capability Insertion</i>	52 / 229.619	1 / 3.825	2 / 7.783	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 241.227
<b>Total Procurement, All Modifications</b>	52 / 229.619	1 / 3.825	2 / 7.783	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 241.227
<b>Support</b>												
2.1) ISIS CAPABILITY INSERTION NRE	- / 14.339	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.339
<b>Total Support, All Modifications</b>	14.339	-	-	-	-	-	-	-	-	-	-	14.339
<b>Total Procurement and Support</b>	243.958	3.825	7.783	-	-	-	-	-	-	-	-	255.566
PL022 Integrated Submarine Imaging System (ISIS) Increment I Capability Insertion Installation Cost	- / 34.147	- / 3.105	- / 2.948	- / 1.045	- / -	- / 1.045	- / -	- / -	- / -	- / -	- / -	- / 41.245
<b>Total Installation Cost</b>	- / 34.147	- / 3.105	- / 2.948	- / 1.045	- / -	- / 1.045	- / -	- / -	- / -	- / -	- / -	- / 41.245
<b>Total Cost (Procurement + Support + Installation)</b>	278.105	6.930	10.731	1.045	-	1.045	-	-	-	-	-	296.811

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes	<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - PL022 Integrated Submarine Imaging System (ISIS) Increment I Capability Insertion

<b>Models of Systems Affected:</b> ISIS INCREMENT I	<b>Type Modification:</b> SHIPALT	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: PL022 Integrated Submarine Imaging System (ISIS) Increment I Capability Insertion**

Manufacturer Name: Multiple Vendors	Manufacturer Location: Various
Administrative Leadtime ( <i>in Months</i> ): 6	Production Leadtime ( <i>in Months</i> ): 17

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Mar 2012	Mar 2013					
Delivery Dates	Aug 2013	Aug 2014					

**Installation: PL022 Integrated Submarine Imaging System (ISIS) Increment I Capability Insertion**

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	34 / 34.147	6 / 3.105	4 / 2.359	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	44 / 39.611
FY 2012	- / -	- / -	1 / 0.589	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.589
FY 2013	- / -	- / -	- / -	2 / 1.045	- / -	2 / 1.045	- / -	- / -	- / -	- / -	- / -	2 / 1.045
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	34 / 34.147	6 / 3.105	5 / 2.948	2 / 1.045	- / -	2 / 1.045	- / -	- / -	- / -	- / -	- / -	47 / 41.245

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	3	1	2	-	2	1	1	1	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47
Out	34	3	1	2	-	2	1	1	1	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47

<b>Installation:</b> PL022 Integrated Submarine Imaging System (ISIS) Increment I Capability Insertion	<b>Method of Implementation:</b> Not Installed - CAPABILITY INSERTION SPARES/CCM	<b>Installation Quantity:</b> 8
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**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes	<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip	<b>Modification Nomenclature</b> <i>(Modification Number - Modification Title):</i> 5 - PL023 VIRGINIA Class Imaging Modernization AN/BVS-1 ISIS

<b>Models of Systems Affected:</b> VA CLASS ISIS AN/ BVS-1	<b>Type Modification:</b> SHIPALT	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	21.364	19.963	10.269	1.186	-	1.186	-	-	-	-	-	52.782
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	21.364	19.963	10.269	1.186	-	1.186	-	-	-	-	-	52.782
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>21.364</b>	<b>19.963</b>	<b>10.269</b>	<b>1.186</b>	<b>-</b>	<b>1.186</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>52.782</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(Units in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Provides for the modernization of VA Class submarine imaging systems to install the Integrated Submarine Imaging System (ISIS) capabilities in support of Intelligence, Surveillance and Reconnaissance (ISR) requirements.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes	<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 5 - PL023 VIRGINIA Class Imaging Modernization AN/BVS-1 ISIS

<b>Models of Systems Affected:</b> VA CLASS ISIS AN/ BVS-1	<b>Type Modification:</b> SHIPALT	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
PL023 VIRGINIA Class Imaging Modernization AN/ BVS-1 ISIS												
B Kits												
Recurring												
1.1.1) VA CLASS ISIS - NonOrganic	3 / 19.714	1 / 3.412	2 / 6.939	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 30.065
<i>Subtotal Recurring</i>	3 / 19.714	1 / 3.412	2 / 6.939	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 30.065
<i>Total, PL023 VIRGINIA Class Imaging Modernization AN/BVS-1 ISIS</i>	3 / 19.714	1 / 3.412	2 / 6.939	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 30.065
<i>Total Procurement, All Modifications</i>	3 / 19.714	1 / 3.412	2 / 6.939	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 30.065
<b>Support</b>												
2.1) VA CLASS ISIS TECHNICAL INSERTION NRE	- / -	- / 14.893	- / 2.173	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.066
2.2) VA ISIS PRODUCTION SUPPORT	- / 0.942	- / 0.483	- / 0.491	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.916
<i>Total Support, All Modifications</i>	0.942	15.376	2.664	-	-	-	-	-	-	-	-	18.982
<i>Total Procurement and Support</i>	20.656	18.788	9.603	-	-	-	-	-	-	-	-	49.047
PL023 VIRGINIA Class Imaging Modernization AN/BVS-1 ISIS Installation Cost	- / 0.708	- / 1.175	- / 0.666	- / 1.186	- / -	- / 1.186	- / -	- / -	- / -	- / -	- / -	- / 3.735
<i>Total Installation Cost</i>	- / 0.708	- / 1.175	- / 0.666	- / 1.186	- / -	- / 1.186	- / -	- / -	- / -	- / -	- / -	- / 3.735
<b>Total Cost (Procurement + Support + Installation)</b>	<b>21.364</b>	<b>19.963</b>	<b>10.269</b>	<b>1.186</b>	<b>-</b>	<b>1.186</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>52.782</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes	<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 5 - PL023 VIRGINIA Class Imaging Modernization AN/BVS-1 ISIS

<b>Models of Systems Affected:</b> VA CLASS ISIS AN/BVS-1	<b>Type Modification:</b> SHIPALT	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: PL023 VIRGINIA Class Imaging Modernization AN/BVS-1 ISIS**

Manufacturer Name: LMC	Manufacturer Location: Manassas, VA
Administrative Leadtime ( <i>in Months</i> ): 6	Production Leadtime ( <i>in Months</i> ): 12

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	May 2012	May 2013					
Delivery Dates	May 2013	May 2014					

<b>Installation:</b> PL023 VIRGINIA Class Imaging Modernization AN/BVS-1 ISIS	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> VA CLASS ISIS
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	1 / 0.708	2 / 1.175	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.883
FY 2012	- / -	- / -	1 / 0.666	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.666
FY 2013	- / -	- / -	- / -	2 / 1.186	- / -	2 / 1.186	- / -	- / -	- / -	- / -	- / -	2 / 1.186
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 0.708	2 / 1.175	1 / 0.666	2 / 1.186	- / -	2 / 1.186	- / -	- / -	- / -	- / -	- / -	6 / 3.735

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot	
		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	-	-	2	-	-	-	-	1	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
Out	1	-	-	2	-	-	-	-	1	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes	<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 6 - PL023 VIRGINIA Class Imaging Modernization AN/BVS-1 MAST Tech Insertion

<b>Models of Systems Affected:</b> VA CLASS AN/BVS-1 MTI	<b>Type Modification:</b> SHIPALT	<b>Related RDT&amp;E PEs:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	4.743	1.941	4.417	0.213	-	0.213	-	-	-	-	-	11.314
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	4.743	1.941	4.417	0.213	-	0.213	-	-	-	-	-	11.314
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>4.743</b>	<b>1.941</b>	<b>4.417</b>	<b>0.213</b>	<b>-</b>	<b>0.213</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>11.314</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Provides obsolescence related upgrades for VA Class submarine imaging systems in support of Intelligence, Surveillance and Reconnaissance (ISR) requirements.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes	<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 6 - PL023 VIRGINIA Class Imaging Modernization AN/BVS-1 MAST Tech Insertion

<b>Models of Systems Affected:</b> VA CLASS AN/BVS-1 MTI	<b>Type Modification:</b> SHIPALT	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
PL023 VIRGINIA Class Imaging Modernization AN/BVS-1 MAST Tech Insertion												
B Kits												
Recurring												
1.1.1) VA CLASS MTI - NonOrganic	6 / 3.677	2 / 1.252	4 / 2.547	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 7.476
1.1.2) VA CLASS MTI SPARES - Organic	- / -	- / -	2 / 1.274	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.274
<b>Subtotal Recurring</b>	6 / 3.677	2 / 1.252	6 / 3.821	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 8.750
<i>Total, PL023 VIRGINIA Class Imaging Modernization AN/BVS-1 MAST Tech Insertion</i>	6 / 3.677	2 / 1.252	6 / 3.821	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 8.750
<b>Total Procurement, All Modifications</b>	6 / 3.677	2 / 1.252	6 / 3.821	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 8.750
<b>Support</b>												
2.1) VA CLASS MIT PRODUCTION SUPPORT	- / 0.942	- / 0.483	- / 0.491	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.916
<b>Total Support, All Modifications</b>	0.942	0.483	0.491	-	-	-	-	-	-	-	-	1.916
<b>Total Procurement and Support</b>	4.619	1.735	4.312	-	-	-	-	-	-	-	-	10.666
PL023 VIRGINIA Class Imaging Modernization AN/BVS-1 MAST Tech Insertion Installation Cost	- / 0.124	- / 0.206	- / 0.105	- / 0.213	- / -	- / 0.213	- / -	- / -	- / -	- / -	- / -	- / 0.648
<b>Total Installation Cost</b>	- / 0.124	- / 0.206	- / 0.105	- / 0.213	- / -	- / 0.213	- / -	- / -	- / -	- / -	- / -	- / 0.648
<b>Total Cost (Procurement + Support + Installation)</b>	4.743	1.941	4.417	0.213	-	0.213	-	-	-	-	-	11.314

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy											<b>Date:</b> April 2013																				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes					<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip						<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 6 - PL023 VIRGINIA Class Imaging Modernization AN/BVS-1 MAST Tech Insertion																				
<b>Models of Systems Affected:</b> VA CLASS AN/BVS-1 MTI					<b>Type Modification:</b> SHIPALT						<b>Related RDT&amp;E PEs:</b>																				
<b>Manufacturer Information: PL023 VIRGINIA Class Imaging Modernization AN/BVS-1 MAST Tech Insertion</b>																															
Manufacturer Name: Seacorp														Manufacturer Location: Middletown, RI																	
Administrative Leadtime ( <i>in Months</i> ): 6														Production Leadtime ( <i>in Months</i> ): 12																	
<b>Dates</b>		<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>					
Contract Dates		May 2012				Mar 2013																									
Delivery Dates		May 2013				Mar 2014																									
<b>Installation:</b> PL023 VIRGINIA Class Imaging Modernization AN/BVS-1 MAST Tech Insertion														<b>Method of Implementation:</b> AIT							<b>Installation Name:</b> VA CLASS MTI										
<b>Installation Cost</b>		<b>Prior Years</b>		<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>FY 2018</b>		<b>To Complete</b>		<b>Total</b>							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
All Prior Years		2 / 0.124		4 / 0.206		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		6 / 0.330					
FY 2012		- / -		- / -		2 / 0.105		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		2 / 0.105					
FY 2013		- / -		- / -		- / -		4 / 0.213		- / -		4 / 0.213		- / -		- / -		- / -		- / -		- / -		- / -		4 / 0.213					
FY 2014		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2015		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2016		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
Total		2 / 0.124		4 / 0.206		2 / 0.105		4 / 0.213		- / -		4 / 0.213		- / -		- / -		- / -		- / -		- / -		- / -		12 / 0.648					
<b>Installation Schedule</b>																															
		<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>					
		<b>APY</b>		<b>1</b>		<b>2</b>		<b>3</b>		<b>4</b>		<b>1</b>		<b>2</b>		<b>3</b>		<b>4</b>		<b>1</b>		<b>2</b>		<b>3</b>		<b>4</b>		<b>TC</b>		<b>Tot</b>	
In		2		-		-		2		2		-		-		-		-		-		-		-		-		-		12	
Out		2		-		-		2		2		-		-		-		-		-		-		-		-		-		12	

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes	<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip	<b>Modification Nomenclature</b> <i>(Modification Number - Modification Title):</i> 6 - PL023 VIRGINIA Class Imaging Modernization AN/BVS-1 MAST Tech Insertion
<b>Models of Systems Affected:</b> VA CLASS AN/BVS-1 MTI	<b>Type Modification:</b> SHIPALT	<b>Related RDT&amp;E PEs:</b>
<b>Installation:</b> PL023 VIRGINIA Class Imaging Modernization AN/BVS-1 MAST Tech Insertion	<b>Method of Implementation:</b> Not Installed - VA CLASS MTI SPARES	<b>Installation Quantity:</b> 2

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes	<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 7 - PL025 Low Profile Photonics Mast (LPPM)

<b>Models of Systems Affected:</b> Photonics Mast			<b>Type Modification:</b> SHIPALT				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	-	8.211	-	8.211	25.053	9.493	2.283	0.764	-	45.804
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	-	8.211	-	8.211	25.053	9.493	2.283	0.764	-	45.804
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	-	-	<b>8.211</b>	-	<b>8.211</b>	<b>25.053</b>	<b>9.493</b>	<b>2.283</b>	<b>0.764</b>	-	<b>45.804</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

VA Class Low Profile Photonics Mast (LPPM) with high definition color, short wave infrared, and laser finder capabilities.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes	<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 7 - PL025 Low Profile Photonics Mast (LPPM)

<b>Models of Systems Affected:</b> Photonics Mast	<b>Type Modification:</b> SHIPALT	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
PL025 Low Profile Photonics Mast (LPPM)												
B Kits												
Recurring												
1.1.1) LPPM - NonOrganic <sup>(2)</sup>	- / -	- / -	- / -	1 / 8.211	- / -	1 / 8.211	2 / 16.702	1 / 8.493	- / -	- / -	- / -	4 / 33.406
1.1.2) LPPM SPARE - Organic	- / -	- / -	- / -	- / -	- / -	- / -	1 / 8.351	- / -	- / -	- / -	- / -	1 / 8.351
<i>Subtotal Recurring</i>	- / -	- / -	- / -	1 / 8.211	- / -	1 / 8.211	3 / 25.053	1 / 8.493	- / -	- / -	- / -	5 / 41.757
<i>Total, PL025 Low Profile Photonics Mast (LPPM)</i>	- / -	- / -	- / -	1 / 8.211	- / -	1 / 8.211	3 / 25.053	1 / 8.493	- / -	- / -	- / -	5 / 41.757
<i>Total Procurement, All Modifications</i>	- / -	- / -	- / -	1 / 8.211	- / -	1 / 8.211	3 / 25.053	1 / 8.493	- / -	- / -	- / -	5 / 41.757
<i>Total Procurement and Support</i>	-	-	-	8.211	-	8.211	25.053	8.493	-	-	-	41.757
PL025 Low Profile Photonics Mast (LPPM) Installation Cost	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.000	- / 2.283	- / 0.764	- / -	- / 4.047
<i>Total Installation Cost</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.000	- / 2.283	- / 0.764	- / -	- / 4.047
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	-	-	<b>8.211</b>	-	<b>8.211</b>	<b>25.053</b>	<b>9.493</b>	<b>2.283</b>	<b>0.764</b>	-	<b>45.804</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes	<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 7 - PL025 Low Profile Photonics Mast (LPPM)

<b>Models of Systems Affected:</b> Photonics Mast	<b>Type Modification:</b> SHIPALT	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: PL025 Low Profile Photonics Mast (LPPM)**

Manufacturer Name: TBD <sup>(3)</sup>	Manufacturer Location: TBD
Administrative Leadtime ( <i>in Months</i> ): 6	Production Leadtime ( <i>in Months</i> ): 24

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates			Jun 2014	Mar 2015	Mar 2016		
Delivery Dates			Oct 2016	Mar 2017	Mar 2018		

**Installation: PL025 Low Profile Photonics Mast (LPPM)**      **Method of Implementation: AIT**      **Installation Name: LPPM**

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.000	1 / 0.761	- / -	- / -	1 / 1.761
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.522	- / -	- / -	2 / 1.522
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.764	- / -	1 / 0.764
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.000	3 / 2.283	1 / 0.764	- / -	4 / 4.047

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	1	1	-	-	1	-	4			
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-	1	-	4			

<b>Installation:</b> PL025 Low Profile Photonics Mast (LPPM)	<b>Method of Implementation:</b> Not Installed - LPPM SPARE	<b>Installation Quantity:</b> 1
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**Footnotes:**  
(2) Install funding \$1M in FY16 Shipalt Non-recurring Cost.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 8: Periscopes	<b>P-1 Line Item Nomenclature:</b> 0831 - Sub Periscopes & Imaging Equip	<b>Modification Nomenclature</b> <i>(Modification Number - Modification Title):</i> 7 - PL025 Low Profile Photonics Mast (LPPM)
<b>Models of Systems Affected:</b> Photonics Mast	<b>Type Modification:</b> SHIPALT	<b>Related RDT&amp;E PEs:</b>
<sup>(3)</sup> Competitive Contract Award		

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**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0900 - DDG Mod

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** 0204228N **Other Related Program Elements:** 0604567N, 0604307N

**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	699.918	126.373	452.371	285.994	-	285.994	517.286	469.890	530.225	801.286	3,760.461	7,643.804
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	699.918	126.373	452.371	285.994	-	285.994	517.286	469.890	530.225	801.286	3,760.461	7,643.804
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>699.918</b>	<b>126.373</b>	<b>452.371</b>	<b>285.994</b>	<b>-</b>	<b>285.994</b>	<b>517.286</b>	<b>469.890</b>	<b>530.225</b>	<b>801.286</b>	<b>3,760.461</b>	<b>7,643.804</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	1.423	8.550	7.153	-	7.153	9.177	10.582	10.447	8.418	Continuing	Continuing
Flyaway Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

1. The DDG Modernization Program is required to upgrade the 28 in-service Flight I and II DDG-51 Class ships in order to keep them relevant and affordable components of the Navy's Sea Power 21 Plan. The DDG Modernization Program is composed of a series of improvements in both the HM&E and Combat Systems (CS) areas installed in two respective phases beginning with the oldest ships first. The modernization installations are planned for each ship at approximately the midlife point for each hull. The quantity line represents the total DDG Modernization availabilities (HM&E and Combat Systems) started in each fiscal year. HM&E: 2-3-2-3-3-4-5 Combat System: 1-2-1-2-1-2-2

The HM&E, Phase I of the program, will be comprised of the technologies transitioned from SCN funded DDG 111/112 and those additional improvements required to support the 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.

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.

Common equipment procurements made in prior years for Cruiser Modernization will be utilized for one Destroyer Modernization in FY14.

[P40A / DM002 - LAND BASED ENGINEERING SITES]: Funds will be used to upgrade shore facilities for Combat Systems and HM&E alterations providing risk reduction testing.

[P40A / DM013 - CONJUNCTIVE ALTERATION DEFINITION AND INTEGRATION]: Procures Conjunctive Alteration Definition and Integration that includes equipment procurement, non-recurring and recurring engineering, equipment integration and Integrated Logistics Support (ILS) products for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78), as well as Flight IIA ships (DDG 79-DDG 112).

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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment		<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b> 0204228N	<b>Other Related Program Elements:</b> 0604567N, 0604307N
<b>MDAP/MAIS Code(s):</b>		
<p>[P40A / DMCA1 - DDG-51 MODERNIZATION PROGRAM CONGRESSIONAL ADD]: Description: DDG Modernization Congressional Add Procures AN/SQQ-89 A(V)15 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>[P40A / DMCA3 - COMMUNICATIONS UPGRADE FOR DDG MOD CONGRESSIONAL ADD]: 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>[P40A / DMCA4 - SMART VALVE AUTOMATIC FIRE SUPPRESSION SYSTEM]: 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> <p>[P40A / DDG-51 DSA FOR FY14 AVAILABILITY]: As a result of the Department's decision to decommission seven (7) Cruisers, procurements made in prior years for these Cruisers will be installed on four (4) remaining Cruisers and one (1) Destroyer. Interchangeable Cruiser/Destroyer combat system equipment will be installed on DDG 51 during the FY 14 DDG combat system availability. This equipment will not require procurement funding in FY12; however, DDG 51 will still require Design Services Allocation (DSA) and installation funding in FY12-14.</p> <p>[P40A / DM6IN - INSTALLATION]: Funds are for installation of DDG Modernization equipment in support of the Fleet Modernization Program.</p> <p>[P3A / DM001 - DDG MODERNIZATION HME (GEDMS)]: Gigabit Ethernet Data Multiplexing System (GEDMS) replaces the obsolete copper machinery control LAN infrastructure with a new system based on the widely used Ethernet industry standard.</p> <p>[P3A / DM001 - DDG MODERNIZATION HME (MCS/DCS)]: Machinery Control System (MCS) replaces the obsolete control consoles while also delivering enhanced capability to the fleet through improved situational awareness and reconfigurable user stations. The new consoles use COTS-based computers which connect via VME-chassis technology. The VME architecture is expected to be supportable for the remaining service life of the ship and will enable computer upgrades within the chassis thereby mitigating future obsolescence concerns.</p> <p>[P3A / DM001 - DDG MODERNIZATION HME (DVSS)]: Digital Video Surveillance System (DVSS) is a network of video cameras which are integrated into the Machinery Control system. This system is primarily a watch-stander situational awareness tool which supplements the workload reduction benefits of the new MCS.</p> <p>[P3A / DM001 - DDG MODERNIZATION HME (WIRELESS COMMUNICATIONS)]: Shipwide Interior Wireless Communication System (SIWCS) - provides point-to-point coverage throughout the internal spaces of the ship as well as topside, topside-to-interior, line of sight ship-to-ship &amp; line of sight ship-to-shore communications capabilities.</p> <p>[P3A / DM001 - DDG MODERNIZATION HME (IBS)]: The Integrated Bridge System (IBS) replaces obsolete bridge consoles and introduces flexibility with how the pilot house is managed during navigation. The key benefit is the ability for operating with fewer watch-standers, reduced watch standard workloads, and improved safety of navigation.</p> <p>[P3A / DM003 - MK 160 MOD 15 GWS]: Procures MK 160 Mod 15 Gun Weapon System (GWS) that includes equipment procurement, recurring engineering, equipment integration and Integrated Logistics Support (ILS) products for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78), as well as Flight IIA ships (DDG 79-DDG 112).</p> <p>[P3A / DM004 - AWS UPGRADE]: Procures equipment for the AWS Upgrades that includes equipment procurement, recurring engineering, equipment integration and Integrated Logistics Support (ILS) products for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78), as well as Flight IIA ships (DDG 79-DDG 112).</p>		

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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment		<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b> 0204228N	<b>Other Related Program Elements:</b> 0604567N, 0604307N

**MDAP/MAIS Code(s):**

[P3A / DM005 - MULTI-MISSION SIGPRO]: Procures Multi-Mission SIGPRO combat systems that includes equipment procurement, recurring engineering, equipment integration and Integrated Logistics Support (ILS) products for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78), as well as Flight IIA ships (DDG 79-DDG 112).

[P3A / DM006 - MULTI-MISSION SSA/CWI MICROWAVE TUBES]: Procures Multi-Mission Solid State Amplifier (SSA)/Continuous Wave Illumination (CWI) Microwave Tubes upgrades for DDG Modernization Program that includes equipment procurement, recurring engineering, equipment integration and Integrated Logistics Support (ILS) products for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78), as well as Flight IIA ships (DDG 79-DDG 112).

[P3A / DM007 - SPY-1D TRANSMITTER UPGRADES]: Procures SPY-1D Transmitter Upgrades combat systems that includes equipment procurement, recurring engineering, equipment integration and Integrated Logistics Support (ILS) products for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78), as well as Flight IIA ships (DDG 79-DDG 112).

[P3A / DM008 - MULTI-MISSION BMD CAPABILITY]: Procures Multi-Mission Ballistic Missile Defense (BMD) Capability combat systems that includes equipment procurement, recurring engineering, equipment integration and Integrated Logistics Support (ILS) products for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78), as well as Flight IIA ships (DDG 79-DDG 112).

[P3A / DM009 - VLS UPGRADES]: 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 includes equipment procurement, recurring engineering, equipment integration and Integrated Logistics Support (ILS) products for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78), as well as Flight IIA ships (DDG 79-DDG 112).

[P3A / DM010 - FCS STAMO]: Procures Stable Master Oscillator (STAMO) combat systems that includes equipment procurement, recurring engineering, equipment integration and Integrated Logistics Support (ILS) products for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78).

[P3A / DM011 - AN/SQQ-89 A(V15)]: 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 includes equipment procurement, recurring engineering, equipment integration and Integrated Logistics Support (ILS) products for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78).

[P3A / DM012 - CEC]: Procures Cooperative Engagement Capability (CEC) combat systems that includes equipment procurement, recurring engineering, equipment integration and Integrated Logistics Support (ILS) products for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78).

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
DDG Mod	P40A			253.762			29.181			108.610			98.143			-				98.143
1 - DM001 - DDG MODERNIZATION HME (GEDMS)	P3A			72.091			17.515			24.989			21.848			-				21.848
2 - DM001 - DDG MODERNIZATION HME (MCS/DCS)	P3A			80.906			35.300			47.134			46.011			-				46.011

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**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment  
**P-1 Line Item Nomenclature:** 0900 - DDG Mod

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** 0204228N **Other Related Program Elements:** 0604567N, 0604307N

**MDAP/MAIS Code(s):**

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
3 - DM001 - DDG MODERNIZATION HME (DVSS)	P3A				6.862			2.316			3.084			2.907			-			2.907
4 - DM001 - DDG MODERNIZATION HME (WIRELESS COMMUNICATIONS)	P3A				4.904			1.498			1.604			1.322			-			1.322
5 - DM001 - DDG MODERNIZATION HME (IBS)	P3A				51.943			13.163			18.662			17.205			-			17.205
6 - DM003 - MK 160 MOD 15 GWS	P3A				13.913			0.700			11.107			5.315			-			5.315
7 - DM004 - AWS UPGRADE	P3A				66.225			13.400			88.762			40.891			-			40.891
8 - DM005 - MULTI-MISSION SIGPRO	P3A				50.641			4.200			58.798			20.844			-			20.844
9 - DM006 - MULTI-MISSION SSA/CWI MICROWAVE TUBES	P3A				2.842			-			2.926			0.993			-			0.993
10 - DM007 - SPY-1D TRANSMITTER UPGRADES	P3A				12.192			-			15.281			5.415			-			5.415
11 - DM008 - MULTI-MISSION BMD CAPABILITY	P3A				5.356			-			4.834			1.650			-			1.650
12 - DM009 - VLS UPGRADES	P3A				25.871			1.200			21.161			9.491			-			9.491
13 - DM010 - FCS STAMO	P3A				7.890			0.300			3.915			0.100			-			0.100
14 - DM011 - AN/SQQ-89 A(V15)	P3A				29.139			5.100			28.597			13.059			-			13.059
15 - DM012 - CEC	P3A				15.381			2.500			12.907			0.800			-			0.800
<b>Total Gross/Weapon System Cost</b>					<b>699.918</b>			<b>126.373</b>			<b>452.371</b>			<b>285.994</b>			<b>-</b>			<b>285.994</b>

Item Schedule		ID CD	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
DDG Mod	P40A				-			-			-			-			-			-
1 - DM001 - DDG MODERNIZATION HME (GEDMS)	P3A				28.493			33.512			38.285			43.035			236.028			515.796
2 - DM001 - DDG MODERNIZATION HME (MCS/DCS)	P3A				57.311			65.593			74.278			86.529			505.385			998.447

**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment  
**P-1 Line Item Nomenclature:** 0900 - DDG Mod

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** 0204228N **Other Related Program Elements:** 0604567N, 0604307N

**MDAP/MAIS Code(s):**

Item Schedule		ID CD	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
3 - DM001 - DDG MODERNIZATION HME (DVSS)	P3A			3.971			5.150			7.242			6.539			27.002			65.073	
4 - DM001 - DDG MODERNIZATION HME (WIRELESS COMMUNICATIONS)	P3A			1.855			3.003			3.434			4.065			22.583			44.268	
5 - DM001 - DDG MODERNIZATION HME (IBS)	P3A			23.452			28.384			32.114			39.059			182.894			406.876	
6 - DM003 - MK 160 MOD 15 GWS	P3A			10.867			10.219			12.140			19.845			131.823			215.929	
7 - DM004 - AWS UPGRADE	P3A			99.837			87.308			110.153			167.180			1,253.650			1,927.406	
8 - DM005 - MULTI-MISSION SIGPRO	P3A			42.906			41.161			45.890			82.050			497.694			844.184	
9 - DM006 - MULTI-MISSION SSA/CWI MICROWAVE TUBES	P3A			2.022			2.058			2.095			4.266			20.441			37.643	
10 - DM007 - SPY-1D TRANSMITTER UPGRADES	P3A			10.421			10.540			11.009			21.421			26.443			112.722	
11 - DM008 - MULTI-MISSION BMD CAPABILITY	P3A			3.360			3.420			3.482			7.089			33.971			63.162	
12 - DM009 - VLS UPGRADES	P3A			19.167			17.758			21.135			34.282			232.490			382.555	
13 - DM010 - FCS STAMO	P3A			0.400			-			-			-			-			12.605	
14 - DM011 - AN/SQQ-89 A(V15)	P3A			19.141			24.357			33.977			31.385			95.907			280.662	
15 - DM012 - CEC	P3A			1.900			-			-			-			-			33.488	
<b>Total Gross/Weapon System Cost</b>				<b>517.286</b>			<b>469.890</b>			<b>530.225</b>			<b>801.286</b>			<b>3,760.461</b>			<b>7,643.804</b>	

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

**UNCLASSIFIED**

**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Aggregated Item Name:</b> DDG Mod
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Items	ID CD	MDAP/ MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)															
<b>1) DM002 - LAND BASED ENGINEERING SITES</b>																				
1.1) DM002 - Land Based Engineering Sites	A		-	-	153.188	-	-	-	-	-	15.444	-	-	6.018	-	-	-	-	-	6.018
<i>Subtotal 1) DM002 - LAND BASED ENGINEERING SITES</i>					153.188			-			15.444			6.018			-			6.018
<b>2) DM013 - CONJUNCTIVE ALTERATION DEFINITION AND INTEGRATION</b>																				
2.1) DM013 - CONJUNCTIVE ALTERATION DEFINITION AND INTEGRATION	A		-	-	26.115	-	-	-	-	-	15.333	-	-	11.097	-	-	-	-	-	11.097
<i>Subtotal 2) DM013 - CONJUNCTIVE ALTERATION DEFINITION AND INTEGRATION</i>					26.115			-			15.333			11.097			-			11.097
<b>3) DMCA1 - DDG-51 MODERNIZATION PROGRAM CONGRESSIONAL ADD</b>																				
3.1) DMCA1 - DDG-51 MODERNIZATION	A		-	-	5.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.2) SQQ-89A (V) W/ MFTA	A		-	-	25.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 3) DMCA1 - DDG-51 MODERNIZATION PROGRAM CONGRESSIONAL ADD</i>					30.000			-			-			-			-			-
<b>4) DMCA3 - COMMUNICATIONS UPGRADE FOR DDG MOD CONGRESSIONAL ADD</b>																				
4.1) DMCA3 - COMMUNICATIONS UPGRADE	A		-	-	3.120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 4) DMCA3 - COMMUNICATIONS UPGRADE FOR DDG MOD CONGRESSIONAL ADD</i>					3.120			-			-			-			-			-
<b>5) DMCA4 - SMART VALVE AUTOMATIC FIRE SUPPRESSION SYSTEM</b>																				

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<b>Exhibit P-40A, Budget Item Justification For Aggregated Items:</b> PB 2014 Navy															<b>Date:</b> April 2013				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment										<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod					<b>Aggregated Item Name:</b> DDG Mod				

Items	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
5.1) SMART VALVE EQUIPMENT	A		-	-	2.480	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal 5) DMCA4 - SMART VALVE AUTOMATIC FIRE SUPPRESSION SYSTEM</i>					2.480			-			-			-					-	
<b>6) DDG-51 DSA FOR FY14 AVAILABILITY</b>																				
6.1) DDG 51 INSTALLATION	A		-	-	-	-	-	-	-	-	12.289	-	-	26.778	-	-	-	-	-	26.778
<i>Subtotal 6) DDG-51 DSA FOR FY14 AVAILABILITY</i>					-			-			12.289			26.778					26.778	
<b>7) DM6IN - INSTALLATION</b>																				
7.1) AIT & CONJUNCTIVE ALTS INSTALLATION	A		-	-	38.859	-	-	29.181	-	-	65.544	-	-	54.250	-	-	-	-	-	54.250
<i>Subtotal 7) DM6IN - INSTALLATION</i>					38.859			29.181			65.544			54.250						54.250
<b>Total</b>					<b>253.762</b>			<b>29.181</b>			<b>108.610</b>			<b>98.143</b>						<b>98.143</b>

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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0900 - DDG Mod

**Aggregated Item Name:**  
DDG Mod

Items	ID CD	MDAP/ MAIS Code	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)															
<b>1) DM002 - LAND BASED ENGINEERING SITES</b>																				
1.1) DM002 - Land Based Engineering Sites	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 1) DM002 - LAND BASED ENGINEERING SITES</i>					-			-			-			-			-			-
<b>2) DM013 - CONJUNCTIVE ALTERATION DEFINITION AND INTEGRATION</b>																				
2.1) DM013 - CONJUNCTIVE ALTERATION DEFINITION AND INTEGRATION	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) DM013 - CONJUNCTIVE ALTERATION DEFINITION AND INTEGRATION</i>					-			-			-			-			-			-
<b>3) DMCA1 - DDG-51 MODERNIZATION PROGRAM CONGRESSIONAL ADD</b>																				
3.1) DMCA1 - DDG-51 MODERNIZATION	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.2) SQQ-89A (V) W/ MFTA	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 3) DMCA1 - DDG-51 MODERNIZATION PROGRAM CONGRESSIONAL ADD</i>					-			-			-			-			-			-
<b>4) DMCA3 - COMMUNICATIONS UPGRADE FOR DDG MOD CONGRESSIONAL ADD</b>																				
4.1) DMCA3 - COMMUNICATIONS UPGRADE	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 4) DMCA3 - COMMUNICATIONS UPGRADE FOR DDG MOD CONGRESSIONAL ADD</i>					-			-			-			-			-			-
<b>5) DMCA4 - SMART VALVE AUTOMATIC FIRE SUPPRESSION SYSTEM</b>																				

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**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Aggregated Item Name:</b> DDG Mod
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Items	ID CD	MDAP/ MAIS Code	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)															
5.1) SMART VALVE EQUIPMENT	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 5) DMCA4 - SMART VALVE AUTOMATIC FIRE SUPPRESSION SYSTEM</i>					-			-			-			-			-			-
<b>6) DDG-51 DSA FOR FY14 AVAILABILITY</b>																				
6.1) DDG 51 INSTALLATION	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 6) DDG-51 DSA FOR FY14 AVAILABILITY</i>					-			-			-			-			-			-
<b>7) DM6IN - INSTALLATION</b>																				
7.1) AIT & CONJUNCTIVE ALTS INSTALLATION	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 7) DM6IN - INSTALLATION</i>					-			-			-			-			-			-
<b>Total</b>					-			-			-			-			-			-

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - DM001 - DDG MODERNIZATION HME (GEDMS)

**Models of Systems Affected:** [No Model Specified]      **Type Modification:** [No Modification Type Specified]      **Related RDT&E PEs:** 0604567N

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	72.091	17.515	24.989	21.848	-	21.848	28.493	33.512	38.285	43.035	236.028	515.796
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	72.091	17.515	24.989	21.848	-	21.848	28.493	33.512	38.285	43.035	236.028	515.796
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>72.091</b>	<b>17.515</b>	<b>24.989</b>	<b>21.848</b>	<b>-</b>	<b>21.848</b>	<b>28.493</b>	<b>33.512</b>	<b>38.285</b>	<b>43.035</b>	<b>236.028</b>	<b>515.796</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Gigabit Ethernet Data Multiplexing System (GEDMS) replaces the obsolete copper machinery control LAN infrastructure with a new system based on the widely used Ethernet industry standard.

Engineering Services:

Production Support Services are phased over a three year span starting two years prior to installation on a per hull basis. It includes 5 elements that are related to the production and delivery of a usable end-item: Production Engineering, Quality Assurance, Product Improvement, Acceptance Test and Evaluation, and Contractor Engineering and Technical Services (CETS). Due to the phasing of the requirement over a 3 year period, engineering services will fluctuate depending on the number of ships in each year.

5 elements and approximate breakdown is as follows:

Production Engineering includes preparation, test and technical evaluation of engineering changes to correct deficiencies in the production items; production configuration control; review and evaluation of production design data and documentation; and logistic supportability efforts.

Quality Assurance includes the preparation of procedures and the conduct of inspections, examinations and test during production that are necessary to deliver an item of the required quality as specified by the terms of the contract.

Product Improvement includes improving reliability/maintainability/availability, and the correction of deficiencies exclusive of contractual specifications.

Acceptance Test and Evaluation of a production item includes preparation of test plans, testing, data analysis, and data evaluation.



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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - DM001 - DDG MODERNIZATION HME (GEDMS)

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b> 0604567N
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
DM001 - DDG MODERNIZATION HME (GEDMS)												
B Kits												
Recurring												
1.1.1) GEDMS Equipment - NonOrganic <sup>(1)</sup>	10 / 49.496	2 / 5.094	3 / 7.748	2 / 5.258	- / -	2 / 5.258	2 / 5.353	3 / 8.174	3 / 8.321	2 / 5.647	1 / 2.874	28 / 97.965
1.1.2) GEDMS EQUIPMENT FLIGHT IIA - NonOrganic <sup>(2)</sup>	- / -	- / -	- / -	1 / 1.262	- / -	1 / 1.262	2 / 2.569	2 / 2.616	2 / 2.663	4 / 5.421	18 / 26.081	29 / 40.612
<i>Subtotal Recurring</i>	<i>10 / 49.496</i>	<i>2 / 5.094</i>	<i>3 / 7.748</i>	<i>3 / 6.520</i>	<i>- / -</i>	<i>3 / 6.520</i>	<i>4 / 7.922</i>	<i>5 / 10.790</i>	<i>5 / 10.984</i>	<i>6 / 11.068</i>	<i>19 / 28.955</i>	<i>57 / 138.577</i>
<i>Total, DM001 - DDG MODERNIZATION HME (GEDMS)</i>	<i>10 / 49.496</i>	<i>2 / 5.094</i>	<i>3 / 7.748</i>	<i>3 / 6.520</i>	<i>- / -</i>	<i>3 / 6.520</i>	<i>4 / 7.922</i>	<i>5 / 10.790</i>	<i>5 / 10.984</i>	<i>6 / 11.068</i>	<i>19 / 28.955</i>	<i>57 / 138.577</i>
<b>Total Procurement, All Modifications</b>	<b>10 / 49.496</b>	<b>2 / 5.094</b>	<b>3 / 7.748</b>	<b>3 / 6.520</b>	<b>- / -</b>	<b>3 / 6.520</b>	<b>4 / 7.922</b>	<b>5 / 10.790</b>	<b>5 / 10.984</b>	<b>6 / 11.068</b>	<b>19 / 28.955</b>	<b>57 / 138.577</b>
<b>Support</b>												
2.1) GEDMS Engineering Services	- / 4.395	- / 2.821	- / 5.741	- / 5.628	- / -	- / 5.628	- / 7.271	- / 7.722	- / 7.901	- / 8.067	- / 63.373	- / 112.919
<b>Total Support, All Modifications</b>	<b>4.395</b>	<b>2.821</b>	<b>5.741</b>	<b>5.628</b>	<b>-</b>	<b>5.628</b>	<b>7.271</b>	<b>7.722</b>	<b>7.901</b>	<b>8.067</b>	<b>63.373</b>	<b>112.919</b>
<b>Total Procurement and Support</b>	<b>53.891</b>	<b>7.915</b>	<b>13.489</b>	<b>12.148</b>	<b>-</b>	<b>12.148</b>	<b>15.193</b>	<b>18.512</b>	<b>18.885</b>	<b>19.135</b>	<b>92.328</b>	<b>251.496</b>
DM001 - DDG MODERNIZATION HME (GEDMS) Installation Cost	- / 18.200	- / 9.600	- / 11.500	- / 9.700	- / -	- / 9.700	- / 13.300	- / 15.000	- / 19.400	- / 23.900	- / 143.700	- / 264.300
<b>Total Installation Cost</b>	<b>- / 18.200</b>	<b>- / 9.600</b>	<b>- / 11.500</b>	<b>- / 9.700</b>	<b>- / -</b>	<b>- / 9.700</b>	<b>- / 13.300</b>	<b>- / 15.000</b>	<b>- / 19.400</b>	<b>- / 23.900</b>	<b>- / 143.700</b>	<b>- / 264.300</b>
<b>Total Cost (Procurement + Support + Installation)</b>	<b>72.091</b>	<b>17.515</b>	<b>24.989</b>	<b>21.848</b>	<b>-</b>	<b>21.848</b>	<b>28.493</b>	<b>33.512</b>	<b>38.285</b>	<b>43.035</b>	<b>236.028</b>	<b>515.796</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment		<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod
		<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - DM001 - DDG MODERNIZATION HME (GEDMS)

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b> 0604567N
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**Manufacturer Information: DM001 - DDG MODERNIZATION HME (GEDMS)**

Manufacturer Name: Boeing	Manufacturer Location: Anaheim, CA
Administrative Leadtime ( <i>in Months</i> ): 6	Production Leadtime ( <i>in Months</i> ): 16

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Aug 2012	Aug 2013	Aug 2014	Aug 2015	Aug 2016	Aug 2017	Aug 2018
Delivery Dates	Dec 2013	Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019

**Installation: DM001 - DDG MODERNIZATION HME (GEDMS)      Method of Implementation: SHIPYARD      Installation Name: GEDMS Equipment**

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	5 / 18.200	2 / 9.200	3 / 8.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 36.300
FY 2012	- / -	- / 0.400	- / 2.000	2 / 5.800	- / -	2 / 5.800	- / -	- / -	- / -	- / -	- / -	2 / 8.200
FY 2013	- / -	- / -	- / 0.600	- / 3.300	- / -	- / 3.300	3 / 9.000	- / -	- / -	- / -	- / -	3 / 12.900
FY 2014	- / -	- / -	- / -	- / 0.400	- / -	- / 0.400	- / 2.400	2 / 6.400	- / -	- / -	- / -	2 / 9.200
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.400	- / 2.200	2 / 6.000	- / -	- / -	2 / 8.600
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.600	- / 3.500	3 / 9.500	- / -	3 / 13.600
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.700	- / 3.800	3 / 11.000	3 / 15.500
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.400	2 / 8.300	2 / 8.700
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 4.400	1 / 4.400
<b>Total</b>	<b>5 / 18.200</b>	<b>2 / 9.600</b>	<b>3 / 11.500</b>	<b>2 / 9.500</b>	<b>- / -</b>	<b>2 / 9.500</b>	<b>3 / 11.800</b>	<b>2 / 9.200</b>	<b>2 / 10.200</b>	<b>3 / 13.700</b>	<b>6 / 23.700</b>	<b>28 / 117.400</b>

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	1	-	1	-	1	2	-	-	1	-	1	-	2	1	-	-	1	1	-	-	2	-	-	1	2	-	-	6	28
Out	3	-	-	2	-	1	-	1	2	1	-	-	1	-	1	-	2	1	-	-	1	1	-	-	2	-	-	2	1	6	28

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - DM001 - DDG MODERNIZATION HME (GEDMS)

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b> 0604567N
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<b>Installation:</b> DM001 - DDG MODERNIZATION HME (GEDMS)	<b>Method of Implementation:</b> [none specified]	<b>Installation Name:</b> GEDMS EQUIPMENT FLIGHT IIA
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	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / 0.200	- / -	- / 0.200	- / 1.100	1 / 3.100	- / -	- / -	- / -	1 / 4.400
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.400	- / 2.300	2 / 6.200	- / -	- / -	2 / 8.900
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.400	- / 2.500	2 / 6.700	- / -	2 / 9.600
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.500	- / 2.500	2 / 7.100	2 / 10.100
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.000	4 / 19.700	4 / 20.700
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 93.200	18 / 93.200
Total	- / -	- / -	- / -	- / 0.200	- / -	- / 0.200	- / 1.500	1 / 5.800	2 / 9.200	2 / 10.200	24 / 120.000	29 / 146.900

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	-	-	2	-	-	-	2	-	-	-	24	29
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-	26	29

**Footnotes:**  
 (1) Engineering Services line includes both Flight I/II and Flight IIA ships.  
 (2) Due to ship specific differences, the unit cost for a Flight IIA ship is less than that for a Flight I/II ship. Engineering Services line includes both Flight I/II and Flight IIA ships.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - DM001 - DDG MODERNIZATION HME (MCS/DCS)

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b> 0604567N
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	80.906	35.300	47.134	46.011	-	46.011	57.311	65.593	74.278	86.529	505.385	998.447
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	80.906	35.300	47.134	46.011	-	46.011	57.311	65.593	74.278	86.529	505.385	998.447
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>80.906</b>	<b>35.300</b>	<b>47.134</b>	<b>46.011</b>	<b>-</b>	<b>46.011</b>	<b>57.311</b>	<b>65.593</b>	<b>74.278</b>	<b>86.529</b>	<b>505.385</b>	<b>998.447</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Machinery Control System (MCS) replaces the obsolete control consoles while also delivering enhanced capability to the fleet through improved situational awareness and reconfigurable user stations. The new consoles use COTS-based computers which connect via VME-chassis technology. The VME architecture is expected to be supportable for the remaining service life of the ship and will enable computer upgrades within the chassis thereby mitigating future obsolescence concerns.

Engineering Services:

Production Support Services are phased over a three year span starting two years prior to installation on a per hull basis. It includes 5 elements that are related to the production and delivery of a usable end-item: Production Engineering, Quality Assurance, Product Improvement, Acceptance Test and Evaluation, and Contractor Engineering and Technical Services (CETS). Due to the phasing of the requirement over a 3 year period, engineering services will fluctuate depending on the number of ships in each year.

5 elements and approximate breakdown is as follows:

Production Engineering includes preparation, test and technical evaluation of engineering changes to correct deficiencies in the production items; production configuration control; review and evaluation of production design data and documentation; and logistic supportability efforts.

Quality Assurance includes the preparation of procedures and the conduct of inspections, examinations and test during production that are necessary to deliver an item of the required quality as specified by the terms of the contract.

Product Improvement includes improving reliability/maintainability/availability, and the correction of deficiencies exclusive of contractual specifications.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> <i>(Modification Number - Modification Title):</i> 2 - DM001 - DDG MODERNIZATION HME (MCS/DCS)
<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b> 0604567N
<p>Acceptance Test and Evaluation of a production item includes preparation of test plans, testing, data analysis, and data evaluation.</p> <p>Contractor Engineering and Technical Services (CETS) includes the furnishing of advice, instruction, and training by commercial or industrial companies.</p>		

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - DM001 - DDG MODERNIZATION HME (MCS/DCS)

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b> 0604567N
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
DM001 - DDG MODERNIZATION HME (MCS/DCS)												
B Kits												
Recurring												
1.1.1) MCS/DCS EQUIPMENT - NonOrganic	10 / 35.263	2 / 7.999	3 / 12.167	3 / 12.386	- / -	3 / 12.386	4 / 16.811	5 / 21.393	5 / 21.778	6 / 26.604	19 / 88.680	57 / 243.081
<i>Subtotal Recurring</i>	10 / 35.263	2 / 7.999	3 / 12.167	3 / 12.386	- / -	3 / 12.386	4 / 16.811	5 / 21.393	5 / 21.778	6 / 26.604	19 / 88.680	57 / 243.081
Non-Recurring												
1.2.1) MCS/DCS 1ST ARTICLE & NRE - Organic	- / 8.643	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.643
<i>Subtotal Non-Recurring</i>	- / 8.643	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.643
<i>Total, DM001 - DDG MODERNIZATION HME (MCS/DCS)</i>	10 / 43.906	2 / 7.999	3 / 12.167	3 / 12.386	- / -	3 / 12.386	4 / 16.811	5 / 21.393	5 / 21.778	6 / 26.604	19 / 88.680	57 / 251.724
<i>Total Procurement, All Modifications</i>	10 / 43.906	2 / 7.999	3 / 12.167	3 / 12.386	- / -	3 / 12.386	4 / 16.811	5 / 21.393	5 / 21.778	6 / 26.604	19 / 88.680	57 / 251.724
<b>Support</b>												
2.1) MCS/DCS ENGINEERING SERVICES	- / -	- / 8.801	- / 13.467	- / 14.825	- / -	- / 14.825	- / 15.200	- / 15.200	- / 15.200	- / 14.825	- / 188.705	- / 286.223
<i>Total Support, All Modifications</i>	-	8.801	13.467	14.825	-	14.825	15.200	15.200	15.200	14.825	188.705	286.223
<i>Total Procurement and Support</i>	43.906	16.800	25.634	27.211	-	27.211	32.011	36.593	36.978	41.429	277.385	537.947
DM001 - DDG MODERNIZATION HME (MCS/DCS) Installation Cost	- / 37.000	- / 18.500	- / 21.500	- / 18.800	- / -	- / 18.800	- / 25.300	- / 29.000	- / 37.300	- / 45.100	- / 228.000	- / 460.500
<i>Total Installation Cost</i>	- / 37.000	- / 18.500	- / 21.500	- / 18.800	- / -	- / 18.800	- / 25.300	- / 29.000	- / 37.300	- / 45.100	- / 228.000	- / 460.500
<b>Total Cost (Procurement + Support + Installation)</b>	<b>80.906</b>	<b>35.300</b>	<b>47.134</b>	<b>46.011</b>	<b>-</b>	<b>46.011</b>	<b>57.311</b>	<b>65.593</b>	<b>74.278</b>	<b>86.529</b>	<b>505.385</b>	<b>998.447</b>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment		<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod
		<b>Modification Nomenclature (Modification Number - Modification Title):</b> 2 - DM001 - DDG MODERNIZATION HME (MCS/DCS)

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b> 0604567N
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**Manufacturer Information: DM001 - DDG MODERNIZATION HME (MCS/DCS)**

Manufacturer Name: Lockheed Martin	Manufacturer Location: Orlando, FL
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 16

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Aug 2012	Aug 2013	Aug 2014	Aug 2015	Aug 2016	Aug 2017	Aug 2018
Delivery Dates	Dec 2013	Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019

**Installation: DM001 - DDG MODERNIZATION HME (MCS/DCS) Method of Implementation:** [none specified] **Installation Name:** MCS/DCS EQUIPMENT

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	5 / 37.000	2 / 17.700	3 / 15.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 70.500
FY 2012	- / -	- / 0.800	- / 4.500	2 / 10.200	- / -	2 / 10.200	- / -	- / -	- / -	- / -	- / -	2 / 15.500
FY 2013	- / -	- / -	- / 1.200	- / 7.300	- / -	- / 7.300	3 / 15.900	- / -	- / -	- / -	- / -	3 / 24.400
FY 2014	- / -	- / -	- / -	- / 1.300	- / -	- / 1.300	- / 7.800	3 / 16.900	- / -	- / -	- / -	3 / 26.000
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.600	- / 10.000	4 / 21.700	- / -	- / -	4 / 33.300
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.100	- / 13.300	5 / 28.700	- / -	5 / 44.100
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.300	- / 14.100	5 / 32.400	5 / 48.800
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.300	6 / 45.200	6 / 47.500
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 150.400	19 / 150.400
Total	5 / 37.000	2 / 18.500	3 / 21.500	2 / 18.800	- / -	2 / 18.800	3 / 25.300	3 / 29.000	4 / 37.300	5 / 45.100	30 / 228.000	57 / 460.500

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	1	-	1	-	1	2	-	-	1	-	1	-	2	1	-	-	2	1	-	-	4	-	-	1	4	-	-	30	57
Out	3	-	-	2	-	1	-	1	2	1	-	-	1	-	1	-	2	1	-	-	1	1	1	-	2	-	2	2	1	32	57

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - DM001 - DDG MODERNIZATION HME (DVSS)

**Models of Systems Affected:** [No Model Specified]    **Type Modification:** [No Modification Type Specified]    **Related RDT&E PEs:** 0604567N

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	6.862	2.316	3.084	2.907	-	2.907	3.971	5.150	7.242	6.539	27.002	65.073
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	6.862	2.316	3.084	2.907	-	2.907	3.971	5.150	7.242	6.539	27.002	65.073
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>6.862</b>	<b>2.316</b>	<b>3.084</b>	<b>2.907</b>	<b>-</b>	<b>2.907</b>	<b>3.971</b>	<b>5.150</b>	<b>7.242</b>	<b>6.539</b>	<b>27.002</b>	<b>65.073</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Digital Video Surveillance System (DVSS) is a network of video cameras which are integrated into the Machinery Control system. This system is primarily a watch-stander situational awareness tool which supplements the workload reduction benefits of the new MCS.

Engineering Services:

Production Support Services are phased over a three year span starting two years prior to installation on a per hull basis. It includes 5 elements that are related to the production and delivery of a usable end-item: Production Engineering, Quality Assurance, Product Improvement, Acceptance Test and Evaluation, and Contractor Engineering and Technical Services (CETS). Due to the phasing of the requirement over a 3 year period, engineering services will fluctuate depending on the number of ships in each year.

5 elements and approximate breakdown is as follows:

Production Engineering includes preparation, test and technical evaluation of engineering changes to correct deficiencies in the production items; production configuration control; review and evaluation of production design data and documentation; and logistic supportability efforts.

Quality Assurance includes the preparation of procedures and the conduct of inspections, examinations and test during production that are necessary to deliver an item of the required quality as specified by the terms of the contract.

Product Improvement includes improving reliability/maintainability/availability, and the correction of deficiencies exclusive of contractual specifications.

Acceptance Test and Evaluation of a production item includes preparation of test plans, testing, data analysis, and data evaluation.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> <i>(Modification Number - Modification Title):</i> 3 - DM001 - DDG MODERNIZATION HME (DVSS)
<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b> 0604567N

Contractor Engineering and Technical Services (CETS) includes the furnishing of advice, instruction, and training by commercial or industrial companies.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - DM001 - DDG MODERNIZATION HME (DVSS)

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b> 0604567N
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
DM001 - DDG MODERNIZATION HME (DVSS)												
B Kits												
Recurring												
1.1.1) DVSS Equipment - NonOrganic	10 / 2.085	2 / 0.940	3 / 1.430	3 / 1.456	- / -	3 / 1.456	4 / 1.976	5 / 2.515	5 / 2.560	6 / 3.127	19 / 9.902	57 / 25.991
<i>Subtotal Recurring</i>	10 / 2.085	2 / 0.940	3 / 1.430	3 / 1.456	- / -	3 / 1.456	4 / 1.976	5 / 2.515	5 / 2.560	6 / 3.127	19 / 9.902	57 / 25.991
Non-Recurring												
1.2.1) DVSS 1st Article & NRE - Organic	- / 0.477	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.477
<i>Subtotal Non-Recurring</i>	- / 0.477	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.477
<i>Total, DM001 - DDG MODERNIZATION HME (DVSS)</i>	10 / 2.562	2 / 0.940	3 / 1.430	3 / 1.456	- / -	3 / 1.456	4 / 1.976	5 / 2.515	5 / 2.560	6 / 3.127	19 / 9.902	57 / 26.468
<i>Total Procurement, All Modifications</i>	10 / 2.562	2 / 0.940	3 / 1.430	3 / 1.456	- / -	3 / 1.456	4 / 1.976	5 / 2.515	5 / 2.560	6 / 3.127	19 / 9.902	57 / 26.468
<b>Support</b>												
2.1) DVSS ENGINEERING SERVICES	- / -	- / 0.076	- / 0.154	- / 0.151	- / -	- / 0.151	- / 0.195	- / 0.235	- / 0.282	- / 0.312	- / 1.700	- / 3.105
<i>Total Support, All Modifications</i>	-	0.076	0.154	0.151	-	0.151	0.195	0.235	0.282	0.312	1.700	3.105
<i>Total Procurement and Support</i>	2.562	1.016	1.584	1.607	-	1.607	2.171	2.750	2.842	3.439	11.602	29.573
DM001 - DDG MODERNIZATION HME (DVSS) Installation Cost	- / 4.300	- / 1.300	- / 1.500	- / 1.300	- / -	- / 1.300	- / 1.800	- / 2.400	- / 4.400	- / 3.100	- / 15.400	- / 35.500
<i>Total Installation Cost</i>	- / 4.300	- / 1.300	- / 1.500	- / 1.300	- / -	- / 1.300	- / 1.800	- / 2.400	- / 4.400	- / 3.100	- / 15.400	- / 35.500
<b>Total Cost (Procurement + Support + Installation)</b>	<b>6.862</b>	<b>2.316</b>	<b>3.084</b>	<b>2.907</b>	<b>-</b>	<b>2.907</b>	<b>3.971</b>	<b>5.150</b>	<b>7.242</b>	<b>6.539</b>	<b>27.002</b>	<b>65.073</b>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - DM001 - DDG MODERNIZATION HME (DVSS)

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b> 0604567N
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**Manufacturer Information: DM001 - DDG MODERNIZATION HME (DVSS)**

Manufacturer Name: NSWC SSES	Manufacturer Location: Philadelphia, PA
Administrative Leadtime ( <i>in Months</i> ): 6	Production Leadtime ( <i>in Months</i> ): 16

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Aug 2012	Aug 2013	Aug 2014	Aug 2015	Aug 2016	Aug 2017	Aug 2018
Delivery Dates	Dec 2013	Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019

**Installation: DM001 - DDG MODERNIZATION HME (DVSS)**      **Method of Implementation:** [none specified]      **Installation Name:** DVSS Equipment

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	5 / 4.300	2 / 1.200	3 / 1.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 6.700
FY 2012	- / -	- / 0.100	- / 0.200	2 / 0.800	- / -	2 / 0.800	- / -	- / -	- / -	- / -	- / -	2 / 1.100
FY 2013	- / -	- / -	- / 0.100	- / 0.400	- / -	- / 0.400	3 / 1.200	- / -	- / -	- / -	- / -	3 / 1.700
FY 2014	- / -	- / -	- / -	- / 0.100	- / -	- / 0.100	- / 0.400	3 / 1.300	- / -	- / -	- / -	3 / 1.800
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.200	- / 0.900	4 / 3.500	- / -	- / -	4 / 4.600
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.200	- / 0.700	5 / 2.200	- / -	5 / 3.100
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.200	- / 0.700	5 / 2.500	5 / 3.400
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.200	6 / 3.100	6 / 3.300
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 9.800	19 / 9.800
Total	5 / 4.300	2 / 1.300	3 / 1.500	2 / 1.300	- / -	2 / 1.300	3 / 1.800	3 / 2.400	4 / 4.400	5 / 3.100	30 / 15.400	57 / 35.500

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	1	-	1	-	1	2	-	-	1	-	1	-	2	1	-	-	2	1	-	-	4	-	-	1	4	-	-	30	57
Out	3	-	-	2	-	1	-	1	2	1	-	-	1	-	1	-	2	1	-	-	1	1	1	-	2	-	2	2	1	32	57

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - DM001 - DDG MODERNIZATION HME (WIRELESS COMMUNICATIONS)

**Models of Systems Affected:** [No Model Specified]    **Type Modification:** [No Modification Type Specified]    **Related RDT&E PEs:** 0604567N

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	4.904	1.498	1.604	1.322	-	1.322	1.855	3.003	3.434	4.065	22.583	44.268
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	4.904	1.498	1.604	1.322	-	1.322	1.855	3.003	3.434	4.065	22.583	44.268
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>4.904</b>	<b>1.498</b>	<b>1.604</b>	<b>1.322</b>	<b>-</b>	<b>1.322</b>	<b>1.855</b>	<b>3.003</b>	<b>3.434</b>	<b>4.065</b>	<b>22.583</b>	<b>44.268</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Shipwide Interior Wireless Communication System (SIWCS) - provides point-to-point coverage throughout the internal spaces of the ship as well as topside, topside-to-interior, line of sight ship-to-ship & line of sight ship-to-shore communications capabilities.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - DM001 - DDG MODERNIZATION HME (WIRELESS COMMUNICATIONS)

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b> 0604567N
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
DM001 - DDG MODERNIZATION HME (WIRELESS COMMUNICATIONS)												
B Kits												
Recurring												
1.1.1) Wireless Communications Equipment - NonOrganic <sup>(3)</sup>	8 / 2.804	1 / 0.398	1 / 0.404	2 / 0.822	- / -	2 / 0.822	3 / 1.255	4 / 1.703	4 / 1.734	4 / 1.765	19 / 8.383	46 / 19.268
<i>Subtotal Recurring</i>	8 / 2.804	1 / 0.398	1 / 0.404	2 / 0.822	- / -	2 / 0.822	3 / 1.255	4 / 1.703	4 / 1.734	4 / 1.765	19 / 8.383	46 / 19.268
<i>Total, DM001 - DDG MODERNIZATION HME (WIRELESS COMMUNICATIONS)</i>	8 / 2.804	1 / 0.398	1 / 0.404	2 / 0.822	- / -	2 / 0.822	3 / 1.255	4 / 1.703	4 / 1.734	4 / 1.765	19 / 8.383	46 / 19.268
<b>Total Procurement, All Modifications</b>	8 / 2.804	1 / 0.398	1 / 0.404	2 / 0.822	- / -	2 / 0.822	3 / 1.255	4 / 1.703	4 / 1.734	4 / 1.765	19 / 8.383	46 / 19.268
<b>Total Procurement and Support</b>	2.804	0.398	0.404	0.822	-	0.822	1.255	1.703	1.734	1.765	8.383	19.268
DM001 - DDG MODERNIZATION HME (WIRELESS COMMUNICATIONS) Installation Cost	- / 2.100	- / 1.100	- / 1.200	- / 0.500	- / -	- / 0.500	- / 0.600	- / 1.300	- / 1.700	- / 2.300	- / 14.200	- / 25.000
<b>Total Installation Cost</b>	- / 2.100	- / 1.100	- / 1.200	- / 0.500	- / -	- / 0.500	- / 0.600	- / 1.300	- / 1.700	- / 2.300	- / 14.200	- / 25.000
<b>Total Cost (Procurement + Support + Installation)</b>	4.904	1.498	1.604	1.322	-	1.322	1.855	3.003	3.434	4.065	22.583	44.268

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - DM001 - DDG MODERNIZATION HME (WIRELESS COMMUNICATIONS)

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b> 0604567N
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**Manufacturer Information: DM001 - DDG MODERNIZATION HME (WIRELESS COMMUNICATIONS)**

Manufacturer Name: NSWC Crane	Manufacturer Location: Crane, IN
Administrative Leadtime ( <i>in Months</i> ): 6	Production Leadtime ( <i>in Months</i> ): 16

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Aug 2012	Aug 2013	Aug 2014	Aug 2015	Aug 2016	Aug 2017	Aug 2018
Delivery Dates	Dec 2013	Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019

<b>Installation:</b> DM001 - DDG MODERNIZATION HME (WIRELESS COMMUNICATIONS)	<b>Method of Implementation:</b> [none specified]	<b>Installation Name:</b> Wireless Communications Equipment
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	3 / 2.100	2 / 1.000	3 / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 4.100
FY 2012	- / -	- / 0.100	- / 0.100	1 / 0.300	- / -	1 / 0.300	- / -	- / -	- / -	- / -	- / -	1 / 0.500
FY 2013	- / -	- / -	- / 0.100	- / 0.100	- / -	- / 0.100	1 / 0.300	- / -	- / -	- / -	- / -	1 / 0.500
FY 2014	- / -	- / -	- / -	- / 0.100	- / -	- / 0.100	- / 0.200	2 / 0.700	- / -	- / -	- / -	2 / 1.000
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.100	- / 0.300	3 / 1.100	- / -	- / -	3 / 1.500
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.300	- / 0.500	4 / 1.800	- / -	4 / 2.600
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.100	- / 0.400	4 / 1.600	4 / 2.100
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.100	4 / 2.100	4 / 2.200
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 10.500	19 / 10.500
Total	3 / 2.100	2 / 1.100	3 / 1.200	1 / 0.500	- / -	1 / 0.500	1 / 0.600	2 / 1.300	3 / 1.700	4 / 2.300	27 / 14.200	46 / 25.000

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	1	-	1	-	1	2	-	-	1	-	-	-	1	-	-	-	1	1	-	-	3	-	-	1	3	-	-	27	46
Out	2	-	1	-	-	1	-	1	2	1	-	-	1	-	-	-	1	-	-	-	-	1	1	-	1	-	2	1	1	29	46

**Footnotes:**  
<sup>(3)</sup> Quantities of SWICS equipment may vary based on current ship configuration and prior year installs.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 5 - DM001 - DDG MODERNIZATION HME (IBS)

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b> 0604567N
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	51.943	13.163	18.662	17.205	-	17.205	23.452	28.384	32.114	39.059	182.894	406.876
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	51.943	13.163	18.662	17.205	-	17.205	23.452	28.384	32.114	39.059	182.894	406.876
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>51.943</b>	<b>13.163</b>	<b>18.662</b>	<b>17.205</b>	<b>-</b>	<b>17.205</b>	<b>23.452</b>	<b>28.384</b>	<b>32.114</b>	<b>39.059</b>	<b>182.894</b>	<b>406.876</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

The Integrated Bridge System (IBS) replaces obsolete bridge consoles and introduces flexibility with how the pilot house is managed during navigation. The key benefit is the ability for operating with fewer watchstanders, reduced watch standard workloads, and improved safety of navigation.

Engineering Services:

Production Support Services are phased over a three year span starting two years prior to installation on a per hull basis. It includes 5 elements that are related to the production and delivery of a usable end-item: Production Engineering, Quality Assurance, Product Improvement, Acceptance Test and Evaluation, and Contractor Engineering and Technical Services (CETS). Due to the phasing of the requirement over a 3 year period, engineering services will fluctuate depending on the number of ships in each year.

5 elements and approximate breakdown is as follows:

Production Engineering includes preparation, test and technical evaluation of engineering changes to correct deficiencies in the production items; production configuration control; review and evaluation of production design data and documentation; and logistic supportability efforts.

Quality Assurance includes the preparation of procedures and the conduct of inspections, examinations and test during production that are necessary to deliver an item of the required quality as specified by the terms of the contract.

Product Improvement includes improving reliability/maintainability/availability, and the correction of deficiencies exclusive of contractual specifications.

Acceptance Test and Evaluation of a production item includes preparation of test plans, testing, data analysis, and data evaluation.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> <i>(Modification Number - Modification Title):</i> 5 - DM001 - DDG MODERNIZATION HME (IBS)
<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b> 0604567N

Contractor Engineering and Technical Services (CETS) includes the furnishing of advice, instruction, and training by commercial or industrial companies.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 5 - DM001 - DDG MODERNIZATION HME (IBS)

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b> 0604567N
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
DM001 - DDG MODERNIZATION HME (IBS)												
B Kits												
Recurring												
1.1.1) IBS Equipment - NonOrganic	10 / 30.766	2 / 6.017	3 / 9.151	3 / 9.316	- / -	3 / 9.316	4 / 12.645	5 / 16.091	5 / 16.381	6 / 20.010	19 / 63.400	57 / 183.777
<i>Subtotal Recurring</i>	10 / 30.766	2 / 6.017	3 / 9.151	3 / 9.316	- / -	3 / 9.316	4 / 12.645	5 / 16.091	5 / 16.381	6 / 20.010	19 / 63.400	57 / 183.777
Non-Recurring												
1.2.1) IBS 1st Article & NRE - Organic	- / 4.186	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.186
<i>Subtotal Non-Recurring</i>	- / 4.186	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.186
<i>Total, DM001 - DDG MODERNIZATION HME (IBS)</i>	10 / 34.952	2 / 6.017	3 / 9.151	3 / 9.316	- / -	3 / 9.316	4 / 12.645	5 / 16.091	5 / 16.381	6 / 20.010	19 / 63.400	57 / 187.963
<i>Total Procurement, All Modifications</i>	10 / 34.952	2 / 6.017	3 / 9.151	3 / 9.316	- / -	3 / 9.316	4 / 12.645	5 / 16.091	5 / 16.381	6 / 20.010	19 / 63.400	57 / 187.963
<b>Support</b>												
2.1) IBS Engineering Services	- / 1.691	- / 0.546	- / 1.111	- / 1.089	- / -	- / 1.089	- / 1.407	- / 1.693	- / 2.033	- / 2.249	- / 13.494	- / 25.313
<i>Total Support, All Modifications</i>	1.691	0.546	1.111	1.089	-	1.089	1.407	1.693	2.033	2.249	13.494	25.313
<i>Total Procurement and Support</i>	36.643	6.563	10.262	10.405	-	10.405	14.052	17.784	18.414	22.259	76.894	213.276
DM001 - DDG MODERNIZATION HME (IBS) Installation Cost	- / 15.300	- / 6.600	- / 8.400	- / 6.800	- / -	- / 6.800	- / 9.400	- / 10.600	- / 13.700	- / 16.800	- / 106.000	- / 193.600
<i>Total Installation Cost</i>	- / 15.300	- / 6.600	- / 8.400	- / 6.800	- / -	- / 6.800	- / 9.400	- / 10.600	- / 13.700	- / 16.800	- / 106.000	- / 193.600
<b>Total Cost (Procurement + Support + Installation)</b>	<b>51.943</b>	<b>13.163</b>	<b>18.662</b>	<b>17.205</b>	<b>-</b>	<b>17.205</b>	<b>23.452</b>	<b>28.384</b>	<b>32.114</b>	<b>39.059</b>	<b>182.894</b>	<b>406.876</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 5 - DM001 - DDG MODERNIZATION HME (IBS)

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b> 0604567N
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**Manufacturer Information: DM001 - DDG MODERNIZATION HME (IBS)**

Manufacturer Name: Northrop Grumman Sperry	Manufacturer Location: Charlottesville, VA
Administrative Leadtime ( <i>in Months</i> ): 6	Production Leadtime ( <i>in Months</i> ): 16

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Jul 2012	Aug 2013	Aug 2014	Aug 2015	Aug 2016	Aug 2017	Aug 2018
Delivery Dates	Dec 2013	Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019

**Installation: DM001 - DDG MODERNIZATION HME (IBS)**      **Method of Implementation:** [none specified]      **Installation Name:** IBS Equipment

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	5 / 15.300	2 / 6.300	3 / 6.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 28.300
FY 2012	- / -	- / 0.300	- / 1.200	2 / 4.400	- / -	2 / 4.400	- / -	- / -	- / -	- / -	- / -	2 / 5.900
FY 2013	- / -	- / -	- / 0.500	- / 1.900	- / -	- / 1.900	3 / 6.800	- / -	- / -	- / -	- / -	3 / 9.200
FY 2014	- / -	- / -	- / -	- / 0.500	- / -	- / 0.500	- / 2.000	3 / 7.200	- / -	- / -	- / -	3 / 9.700
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.600	- / 2.600	4 / 9.300	- / -	- / -	4 / 12.500
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.800	- / 3.500	5 / 12.300	- / -	5 / 16.600
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.900	- / 3.700	5 / 13.900	5 / 18.500
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.800	6 / 21.500	6 / 22.300
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 70.600	19 / 70.600
Total	5 / 15.300	2 / 6.600	3 / 8.400	2 / 6.800	- / -	2 / 6.800	3 / 9.400	3 / 10.600	4 / 13.700	5 / 16.800	30 / 106.000	57 / 193.600

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	1	-	1	-	1	2	-	-	1	-	1	-	2	1	-	-	2	1	-	-	4	-	-	1	4	-	-	30	57
Out	3	-	-	2	-	1	-	1	2	1	-	-	1	-	1	-	2	1	-	-	1	1	1	-	2	-	2	2	1	32	57

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 6 - DM003 - MK 160 MOD 15 GWS

<b>Models of Systems Affected:</b> [No Model Specified]			<b>Type Modification:</b> [No Modification Type Specified]				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	13.913	0.700	11.107	5.315	-	5.315	10.867	10.219	12.140	19.845	131.823	215.929
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	13.913	0.700	11.107	5.315	-	5.315	10.867	10.219	12.140	19.845	131.823	215.929
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>13.913</b>	<b>0.700</b>	<b>11.107</b>	<b>5.315</b>	<b>-</b>	<b>5.315</b>	<b>10.867</b>	<b>10.219</b>	<b>12.140</b>	<b>19.845</b>	<b>131.823</b>	<b>215.929</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Procures MK 160 Mod 15 Gun Weapon System (GWS) that includes equipment procurement, recurring engineering, equipment integration and Integrated Logistics Support (ILS) products for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78), as well as Flight IIA ships (DDG 79-DDG 112).

Engineering Services:

Production Support Services are phased over a three year span starting two years prior to installation on a per hull basis. It includes 5 elements that are related to the production and delivery of a usable end-item: Production Engineering, Quality Assurance, Product Improvement, Acceptance Test and Evaluation, and Contractor Engineering and Technical Services (CETS). Due to the phasing of the requirement over a 3 year period, engineering services will fluctuate depending on the number of ships in each year.

5 elements and approximate breakdown is as follows:

Production Engineering includes preparation, test and technical evaluation of engineering changes to correct deficiencies in the production items; production configuration control; review and evaluation of production design data and documentation; and logistic supportability efforts.

Quality Assurance includes the preparation of procedures and the conduct of inspections, examinations and test during production that are necessary to deliver an item of the required quality as specified by the terms of the contract.

Product Improvement includes improving reliability/maintainability/availability, and the correction of deficiencies exclusive of contractual specifications.

Acceptance Test and Evaluation of a production item includes preparation of test plans, testing, data analysis, and data evaluation.



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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 6 - DM003 - MK 160 MOD 15 GWS

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
DM003 - MK 160 MOD 15 GWS												
B Kits												
Recurring												
1.1.1) MK 160 MOD 15 GWS EQUIPMENT - NonOrganic <sup>(4)</sup>	3 / 8.395	- / -	2 / 6.199	1 / 3.155	- / -	1 / 3.155	2 / 6.424	2 / 6.540	2 / 6.658	4 / 13.555	18 / 64.959	34 / 115.885
<i>Subtotal Recurring</i>	3 / 8.395	- / -	2 / 6.199	1 / 3.155	- / -	1 / 3.155	2 / 6.424	2 / 6.540	2 / 6.658	4 / 13.555	18 / 64.959	34 / 115.885
<i>Total, DM003 - MK 160 MOD 15 GWS</i>	3 / 8.395	- / -	2 / 6.199	1 / 3.155	- / -	1 / 3.155	2 / 6.424	2 / 6.540	2 / 6.658	4 / 13.555	18 / 64.959	34 / 115.885
<i>Total Procurement, All Modifications</i>	3 / 8.395	- / -	2 / 6.199	1 / 3.155	- / -	1 / 3.155	2 / 6.424	2 / 6.540	2 / 6.658	4 / 13.555	18 / 64.959	34 / 115.885
<b>Support</b>												
2.1) ENGINEERING SERVICES	- / 5.218	- / -	- / 2.608	- / 1.160	- / -	- / 1.160	- / 1.543	- / 1.479	- / 1.882	- / 2.490	- / 22.264	- / 38.644
<i>Total Support, All Modifications</i>	5.218	-	2.608	1.160	-	1.160	1.543	1.479	1.882	2.490	22.264	38.644
<i>Total Procurement and Support</i>	13.613	-	8.807	4.315	-	4.315	7.967	8.019	8.540	16.045	87.223	154.529
DM003 - MK 160 MOD 15 GWS Installation Cost	- / 0.300	- / 0.700	- / 2.300	- / 1.000	- / -	- / 1.000	- / 2.900	- / 2.200	- / 3.600	- / 3.800	- / 44.600	- / 61.400
<i>Total Installation Cost</i>	- / 0.300	- / 0.700	- / 2.300	- / 1.000	- / -	- / 1.000	- / 2.900	- / 2.200	- / 3.600	- / 3.800	- / 44.600	- / 61.400
<b>Total Cost (Procurement + Support + Installation)</b>	<b>13.913</b>	<b>0.700</b>	<b>11.107</b>	<b>5.315</b>	<b>-</b>	<b>5.315</b>	<b>10.867</b>	<b>10.219</b>	<b>12.140</b>	<b>19.845</b>	<b>131.823</b>	<b>215.929</b>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 6 - DM003 - MK 160 MOD 15 GWS

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information:</b> DM003 - MK 160 MOD 15 GWS	
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Manufacturer Name: VARIOUS	Manufacturer Location: VARIOUS
Administrative Leadtime ( <i>in Months</i> ): 6	Production Leadtime ( <i>in Months</i> ): 18

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates		Jul 2013	Jun 2014	Jun 2015	Jun 2016	Jun 2017	Jun 2018
Delivery Dates		Jan 2015	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019

<b>Installation:</b> DM003 - MK 160 MOD 15 GWS	<b>Method of Implementation:</b> [none specified]	<b>Installation Name:</b> MK 160 MOD 15 GWS EQUIPMENT
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	0 / 0.300	1 / 0.700	2 / 2.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 3.100
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / 0.200	- / 0.900	- / -	- / 0.900	2 / 2.300	- / -	- / -	- / -	- / -	2 / 3.400
FY 2014	- / -	- / -	- / -	- / 0.100	- / -	- / 0.100	- / 0.400	1 / 1.100	- / -	- / -	- / -	1 / 1.600
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.200	- / 0.900	2 / 2.400	- / -	- / -	2 / 3.500
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.200	- / 1.000	2 / 2.400	- / -	2 / 3.600
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.200	- / 1.000	2 / 2.600	2 / 3.800
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.400	4 / 7.300	4 / 7.700
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 34.700	18 / 34.700
Total	0 / 0.300	1 / 0.700	2 / 2.300	- / 1.000	- / -	- / 1.000	2 / 2.900	1 / 2.200	2 / 3.600	2 / 3.800	24 / 44.600	34 / 61.400

Installation Schedule		FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
	APY	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	-	-	-	2	-	-	-	-	-	1	1	-	-	1	-	-	-	2	-	-	-	2	-	-	24	34
Out	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-	-	1	1	-	-	-	1	-	-	-	2	-	-	26	34

**Footnotes:**  
 (4) Common equipment procurements made in prior years for Cruiser Modernization will be utilized for one Destroyer Modernization in FY14. Equipment is available due to the decision to not upgrade some Cruisers.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 7 - DM004 - AWS UPGRADE

<b>Models of Systems Affected:</b> [No Model Specified]			<b>Type Modification:</b> [No Modification Type Specified]				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	66.225	13.400	88.762	40.891	-	40.891	99.837	87.308	110.153	167.180	1,253.650	1,927.406
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	66.225	13.400	88.762	40.891	-	40.891	99.837	87.308	110.153	167.180	1,253.650	1,927.406
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>66.225</b>	<b>13.400</b>	<b>88.762</b>	<b>40.891</b>	-	<b>40.891</b>	<b>99.837</b>	<b>87.308</b>	<b>110.153</b>	<b>167.180</b>	<b>1,253.650</b>	<b>1,927.406</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Procures equipment for the Aegis Weapon System (AWS) Upgrades that includes equipment procurement, recurring engineering, equipment integration and Integrated Logistics Support (ILS) products for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78), as well as Flight IIA ships (DDG 79-DDG 112).

Engineering Services:

Production Support Services are phased over a three year span starting two years prior to installation on a per hull basis. It includes 5 elements that are related to the production and delivery of a usable end-item: Production Engineering, Quality Assurance, Product Improvement, Acceptance Test and Evaluation, and Contractor Engineering and Technical Services (CETS). Due to the phasing of the requirement over a 3 year period, engineering services will fluctuate depending on the number of ships in each year.

5 elements and approximate breakdown is as follows:

Production Engineering includes preparation, test and technical evaluation of engineering changes to correct deficiencies in the production items; production configuration control; review and evaluation of production design data and documentation; and logistic supportability efforts.

Quality Assurance includes the preparation of procedures and the conduct of inspections, examinations and test during production that are necessary to deliver an item of the required quality as specified by the terms of the contract.

Product Improvement includes improving reliability/maintainability/availability, and the correction of deficiencies exclusive of contractual specifications.

Acceptance Test and Evaluation of a production item includes preparation of test plans, testing, data analysis, and data evaluation.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> <i>(Modification Number - Modification Title):</i> 7 - DM004 - AWS UPGRADE
<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
Contractor Engineering and Technical Services (CETS) includes the furnishing of advice, instruction, and training by commercial or industrial companies.		

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 7 - DM004 - AWS UPGRADE

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
DM004 - AWS UPGRADE												
B Kits												
Recurring												
1.1.1) AWS EQUIPMENT - NonOrganic <sup>(5)</sup>	3 / 60.786	- / -	2 / 44.695	1 / 22.750	- / -	1 / 22.750	2 / 46.318	2 / 47.152	2 / 48.001	4 / 97.729	18 / 468.333	34 / 835.764
<i>Subtotal Recurring</i>	3 / 60.786	- / -	2 / 44.695	1 / 22.750	- / -	1 / 22.750	2 / 46.318	2 / 47.152	2 / 48.001	4 / 97.729	18 / 468.333	34 / 835.764
<i>Total, DM004 - AWS UPGRADE</i>	3 / 60.786	- / -	2 / 44.695	1 / 22.750	- / -	1 / 22.750	2 / 46.318	2 / 47.152	2 / 48.001	4 / 97.729	18 / 468.333	34 / 835.764
<i>Total Procurement, All Modifications</i>	3 / 60.786	- / -	2 / 44.695	1 / 22.750	- / -	1 / 22.750	2 / 46.318	2 / 47.152	2 / 48.001	4 / 97.729	18 / 468.333	34 / 835.764
<b>Support</b>												
2.1) ENGINEERING SERVICES	- / 3.039	- / -	- / 2.567	- / 1.141	- / -	- / 1.141	- / 1.519	- / 1.456	- / 1.852	- / 2.451	- / 21.917	- / 35.942
<i>Total Support, All Modifications</i>	3.039	-	2.567	1.141	-	1.141	1.519	1.456	1.852	2.451	21.917	35.942
<b>Total Procurement and Support</b>	63.825	-	47.262	23.891	-	23.891	47.837	48.608	49.853	100.180	490.250	871.706
DM004 - AWS UPGRADE Installation Cost	- / 2.400	- / 13.400	- / 41.500	- / 17.000	- / -	- / 17.000	- / 52.000	- / 38.700	- / 60.300	- / 67.000	- / 763.400	- / 1,055.700
<i>Total Installation Cost</i>	- / 2.400	- / 13.400	- / 41.500	- / 17.000	- / -	- / 17.000	- / 52.000	- / 38.700	- / 60.300	- / 67.000	- / 763.400	- / 1,055.700
<b>Total Cost (Procurement + Support + Installation)</b>	66.225	13.400	88.762	40.891	-	40.891	99.837	87.308	110.153	167.180	1,253.650	1,927.406

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 7 - DM004 - AWS UPGRADE

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: DM004 - AWS UPGRADE**

Manufacturer Name: LOCKHEED MARTIN	Manufacturer Location: MOORESTOWN, NJ
Administrative Leadtime ( <i>in Months</i> ): 6	Production Leadtime ( <i>in Months</i> ): 20

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates		May 2013	Apr 2014	Apr 2015	Apr 2016	Apr 2017	Apr 2018
Delivery Dates		Jan 2015	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019

**Installation: DM004 - AWS UPGRADE**      **Method of Implementation:** [none specified]      **Installation Name:** AWS EQUIPMENT

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	0 / 2.400	1 / 13.400	2 / 38.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 54.500
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / 2.800	- / 15.600	- / -	- / 15.600	2 / 41.500	- / -	- / -	- / -	- / -	2 / 59.900
FY 2014	- / -	- / -	- / -	- / 1.400	- / -	- / 1.400	- / 7.600	1 / 20.200	- / -	- / -	- / -	1 / 29.200
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.900	- / 15.400	2 / 40.700	- / -	- / -	2 / 59.000
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.100	- / 16.400	2 / 43.700	- / -	2 / 63.200
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.200	- / 16.700	2 / 46.700	2 / 66.600
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.600	4 / 130.300	4 / 136.900
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 586.400	18 / 586.400
Total	0 / 2.400	1 / 13.400	2 / 41.500	- / 17.000	- / -	- / 17.000	2 / 52.000	1 / 38.700	2 / 60.300	2 / 67.000	24 / 763.400	34 / 1,055.700

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	-	-	2	-	-	-	-	-	1	1	-	-	1	-	-	-	2	-	-	-	2	-	-	24	34
Out	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-	-	1	1	-	-	-	1	-	-	-	2	-	-	26	34

**Footnotes:**  
<sup>(5)</sup> Installation/DSA decreases due to correction of manday rate in Navy Data Environment (NDE). Common equipment procurements made in prior years for Cruiser Modernization will be utilized for one Destroyer Modernization in FY14. Equipment is available due to the decision to not upgrade some Cruisers.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 8 - DM005 - MULTI-MISSION SIGPRO

<b>Models of Systems Affected:</b> [No Model Specified]			<b>Type Modification:</b> [No Modification Type Specified]				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	50.641	4.200	58.798	20.844	-	20.844	42.906	41.161	45.890	82.050	497.694	844.184
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	50.641	4.200	58.798	20.844	-	20.844	42.906	41.161	45.890	82.050	497.694	844.184
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>50.641</b>	<b>4.200</b>	<b>58.798</b>	<b>20.844</b>	<b>-</b>	<b>20.844</b>	<b>42.906</b>	<b>41.161</b>	<b>45.890</b>	<b>82.050</b>	<b>497.694</b>	<b>844.184</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Procures Multi-Mission SIGPRO combat systems that includes equipment procurement, recurring engineering, equipment integration and Integrated Logistics Support (ILS) products for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78), as well as Flight IIA ships (DDG 79-DDG 112).

Engineering Services:

Production Support Services are phased over a three year span starting two years prior to installation on a per hull basis. It includes 5 elements that are related to the production and delivery of a usable end-item: Production Engineering, Quality Assurance, Product Improvement, Acceptance Test and Evaluation, and Contractor Engineering and Technical Services (CETS). Due to the phasing of the requirement over a 3 year period, engineering services will fluctuate depending on the number of ships in each year.

5 elements and approximate breakdown is as follows:

Production Engineering includes preparation, test and technical evaluation of engineering changes to correct deficiencies in the production items; production configuration control; review and evaluation of production design data and documentation; and logistic supportability efforts.

Quality Assurance includes the preparation of procedures and the conduct of inspections, examinations and test during production that are necessary to deliver an item of the required quality as specified by the terms of the contract.

Product Improvement includes improving reliability/maintainability/availability, and the correction of deficiencies exclusive of contractual specifications.

Acceptance Test and Evaluation of a production item includes preparation of test plans, testing, data analysis, and data evaluation.



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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 8 - DM005 - MULTI-MISSION SIGPRO

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
DM005 - MULTI-MISSION SIGPRO												
B Kits												
Recurring												
1.1.1) MULTI-MISSION SIGPRO EQUIPMENT - NonOrganic <sup>(6)</sup>	3 / 46.790	- / -	3 / 44.831	1 / 15.213	- / -	1 / 15.213	2 / 30.973	2 / 31.531	2 / 32.098	4 / 65.352	18 / 313.177	35 / 579.965
<i>Subtotal Recurring</i>	<i>3 / 46.790</i>	<i>- / -</i>	<i>3 / 44.831</i>	<i>1 / 15.213</i>	<i>- / -</i>	<i>1 / 15.213</i>	<i>2 / 30.973</i>	<i>2 / 31.531</i>	<i>2 / 32.098</i>	<i>4 / 65.352</i>	<i>18 / 313.177</i>	<i>35 / 579.965</i>
<i>Total, DM005 - MULTI-MISSION SIGPRO</i>	<i>3 / 46.790</i>	<i>- / -</i>	<i>3 / 44.831</i>	<i>1 / 15.213</i>	<i>- / -</i>	<i>1 / 15.213</i>	<i>2 / 30.973</i>	<i>2 / 31.531</i>	<i>2 / 32.098</i>	<i>4 / 65.352</i>	<i>18 / 313.177</i>	<i>35 / 579.965</i>
<b>Total Procurement, All Modifications</b>	<b>3 / 46.790</b>	<b>- / -</b>	<b>3 / 44.831</b>	<b>1 / 15.213</b>	<b>- / -</b>	<b>1 / 15.213</b>	<b>2 / 30.973</b>	<b>2 / 31.531</b>	<b>2 / 32.098</b>	<b>4 / 65.352</b>	<b>18 / 313.177</b>	<b>35 / 579.965</b>
<b>Support</b>												
2.1) ENGINEERING SERVICES	- / 3.251	- / -	- / 8.167	- / 3.631	- / -	- / 3.631	- / 4.833	- / 4.630	- / 5.892	- / 7.798	- / 69.717	- / 107.919
<b>Total Support, All Modifications</b>	<b>3.251</b>	<b>-</b>	<b>8.167</b>	<b>3.631</b>	<b>-</b>	<b>3.631</b>	<b>4.833</b>	<b>4.630</b>	<b>5.892</b>	<b>7.798</b>	<b>69.717</b>	<b>107.919</b>
<b>Total Procurement and Support</b>	<b>50.041</b>	<b>-</b>	<b>52.998</b>	<b>18.844</b>	<b>-</b>	<b>18.844</b>	<b>35.806</b>	<b>36.161</b>	<b>37.990</b>	<b>73.150</b>	<b>382.894</b>	<b>687.884</b>
DM005 - MULTI-MISSION SIGPRO Installation Cost	- / 0.600	- / 4.200	- / 5.800	- / 2.000	- / -	- / 2.000	- / 7.100	- / 5.000	- / 7.900	- / 8.900	- / 114.800	- / 156.300
<b>Total Installation Cost</b>	<b>- / 0.600</b>	<b>- / 4.200</b>	<b>- / 5.800</b>	<b>- / 2.000</b>	<b>- / -</b>	<b>- / 2.000</b>	<b>- / 7.100</b>	<b>- / 5.000</b>	<b>- / 7.900</b>	<b>- / 8.900</b>	<b>- / 114.800</b>	<b>- / 156.300</b>
<b>Total Cost (Procurement + Support + Installation)</b>	<b>50.641</b>	<b>4.200</b>	<b>58.798</b>	<b>20.844</b>	<b>-</b>	<b>20.844</b>	<b>42.906</b>	<b>41.161</b>	<b>45.890</b>	<b>82.050</b>	<b>497.694</b>	<b>844.184</b>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 8 - DM005 - MULTI-MISSION SIGPRO

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: DM005 - MULTI-MISSION SIGPRO**

Manufacturer Name: LOCKHEED MARTIN	Manufacturer Location: MOORESTOWN, NJ
Administrative Leadtime ( <i>in Months</i> ): 6	Production Leadtime ( <i>in Months</i> ): 18

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates		Jan 2013	Jun 2014	Jun 2015	Jun 2016	Jun 2017	Jun 2018
Delivery Dates		Jul 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019

**Installation: DM005 - MULTI-MISSION SIGPRO**

**Method of Implementation:** [none specified]      **Installation Name:** MULTI-MISSION SIGPRO EQUIPMENT

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	0 / 0.600	1 / 4.100	2 / 5.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 10.100
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / 0.100	- / 0.400	1 / 1.800	- / -	1 / 1.800	2 / 5.800	- / -	- / -	- / -	- / -	3 / 8.100
FY 2014	- / -	- / -	- / -	- / 0.200	- / -	- / 0.200	- / 0.900	1 / 2.800	- / -	- / -	- / -	1 / 3.900
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.400	- / 1.800	2 / 5.700	- / -	- / -	2 / 7.900
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.400	- / 1.800	2 / 6.100	- / -	2 / 8.300
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.400	- / 1.900	2 / 6.500	2 / 8.800
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.900	4 / 17.300	4 / 18.200
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 91.000	18 / 91.000
Total	0 / 0.600	1 / 4.200	2 / 5.800	1 / 2.000	- / -	1 / 2.000	2 / 7.100	1 / 5.000	2 / 7.900	2 / 8.900	24 / 114.800	35 / 156.300

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	-	-	2	-	-	-	1	-	1	1	-	-	1	-	-	-	2	-	-	-	2	-	-	24	35
Out	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	1	-	1	1	-	-	-	1	-	-	-	2	-	-	26	35

**Footnotes:**  
(6) Engineering Services increase in FY 18 due to increase in number of C/S availabilities in FY 20.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 9 - DM006 - MULTI-MISSION SSA/CWI MICROWAVE TUBES

**Models of Systems Affected:** [No Model Specified]    **Type Modification:** [No Modification Type Specified]    **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	2.842	-	2.926	0.993	-	0.993	2.022	2.058	2.095	4.266	20.441	37.643
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	2.842	-	2.926	0.993	-	0.993	2.022	2.058	2.095	4.266	20.441	37.643
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>2.842</b>	-	<b>2.926</b>	<b>0.993</b>	-	<b>0.993</b>	<b>2.022</b>	<b>2.058</b>	<b>2.095</b>	<b>4.266</b>	<b>20.441</b>	<b>37.643</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Procures Multi-Mission Solid State Amplifier (SSA)/Continuous Wave Illumination (CWI) Microwave Tubes upgrades for DDG Modernization Program that includes equipment procurement, recurring engineering, equipment integration and Integrated Logistics Support (ILS) products for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78), as well as Flight IIA ships (DDG 79-DDG 112).

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 9 - DM006 - MULTI-MISSION SSA/CWI MICROWAVE TUBES

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
DM006 - MULTI-MISSION SSA/CWI MICROWAVE TUBES												
B Kits												
Recurring												
1.1.1) MULTI-MISSION SSA/CWI MICROWAVE TUBES EQUIPMENT - Organic	3 / 2.842	- / -	3 / 2.926	1 / 0.993	- / -	1 / 0.993	2 / 2.022	2 / 2.058	2 / 2.095	4 / 4.266	18 / 20.441	35 / 37.643
<i>Subtotal Recurring</i>	3 / 2.842	- / -	3 / 2.926	1 / 0.993	- / -	1 / 0.993	2 / 2.022	2 / 2.058	2 / 2.095	4 / 4.266	18 / 20.441	35 / 37.643
<i>Total, DM006 - MULTI-MISSION SSA/CWI MICROWAVE TUBES</i>	3 / 2.842	- / -	3 / 2.926	1 / 0.993	- / -	1 / 0.993	2 / 2.022	2 / 2.058	2 / 2.095	4 / 4.266	18 / 20.441	35 / 37.643
<b>Total Procurement, All Modifications</b>	3 / 2.842	- / -	3 / 2.926	1 / 0.993	- / -	1 / 0.993	2 / 2.022	2 / 2.058	2 / 2.095	4 / 4.266	18 / 20.441	35 / 37.643
<b>Total Procurement and Support</b>	2.842	-	2.926	0.993	-	0.993	2.022	2.058	2.095	4.266	20.441	37.643
<b>Total Installation Cost</b>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total Cost (Procurement + Support + Installation)</b>	2.842	-	2.926	0.993	-	0.993	2.022	2.058	2.095	4.266	20.441	37.643

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy					<b>Date:</b> April 2013			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment			<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod			<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 9 - DM006 - MULTI-MISSION SSA/CWI MICROWAVE TUBES		
<b>Models of Systems Affected:</b> [No Model Specified]		<b>Type Modification:</b> [No Modification Type Specified]			<b>Related RDT&amp;E PEs:</b>			
<b>Manufacturer Information: DM006 - MULTI-MISSION SSA/CWI MICROWAVE TUBES</b>								
Manufacturer Name: VARIOUS				Manufacturer Location: VARIOUS				
Administrative Leadtime ( <i>in Months</i> ): 6				Production Leadtime ( <i>in Months</i> ): 18				
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	
Contract Dates		Jan 2013	Jun 2014	Jun 2015	Jun 2016	Jun 2017	Jun 2018	
Delivery Dates		Jul 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019	
<b>Installation:</b> DM006 - MULTI-MISSION SSA/CWI MICROWAVE TUBES		<b>Method of Implementation:</b> Not Installed - MULTI-MISSION SSA/CWI MICROWAVE TUBES EQUIPMENT				<b>Installation Quantity:</b> 35		

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 10 - DM007 - SPY-1D TRANSMITTER UPGRADES

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	12.192	-	15.281	5.415	-	5.415	10.421	10.540	11.009	21.421	26.443	112.722
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	12.192	-	15.281	5.415	-	5.415	10.421	10.540	11.009	21.421	26.443	112.722
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>12.192</b>	<b>-</b>	<b>15.281</b>	<b>5.415</b>	<b>-</b>	<b>5.415</b>	<b>10.421</b>	<b>10.540</b>	<b>11.009</b>	<b>21.421</b>	<b>26.443</b>	<b>112.722</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Procures SPY-1D Transmitter Upgrades combat systems that includes equipment procurement, recurring engineering, equipment integration and Integrated Logistics Support (ILS) products for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78), as well as Flight IIA ships (DDG 79-DDG 112).

Engineering Services:

Production Support Services are phased over a three year span starting two years prior to installation on a per hull basis. It includes 5 elements that are related to the production and delivery of a usable end-item: Production Engineering, Quality Assurance, Product Improvement, Acceptance Test and Evaluation, and Contractor Engineering and Technical Services (CETS). Due to the phasing of the requirement over a 3 year period, engineering services will fluctuate depending on the number of ships in each year.

5 elements and approximate breakdown is as follows:

Production Engineering includes preparation, test and technical evaluation of engineering changes to correct deficiencies in the production items; production configuration control; review and evaluation of production design data and documentation; and logistic supportability efforts.

Quality Assurance includes the preparation of procedures and the conduct of inspections, examinations and test during production that are necessary to deliver an item of the required quality as specified by the terms of the contract.

Product Improvement includes improving reliability/maintainability/availability, and the correction of deficiencies exclusive of contractual specifications.

Acceptance Test and Evaluation of a production item includes preparation of test plans, testing, data analysis, and data evaluation.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> <i>(Modification Number - Modification Title):</i> 10 - DM007 - SPY-1D TRANSMITTER UPGRADES
<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
<p>Contractor Engineering and Technical Services (CETS) includes the furnishing of advice, instruction, and training by commercial or industrial companies.</p>		

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 10 - DM007 - SPY-1D TRANSMITTER UPGRADES

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
DM007 - SPY-1D TRANSMITTER UPGRADES												
B Kits												
Recurring												
1.1.1) SPY-1D TRANSMITTER UPGRADES EQUIPMENT - Organic	3 / 12.192	- / -	3 / 13.351	1 / 4.557	- / -	1 / 4.557	2 / 9.279	2 / 9.446	2 / 9.616	4 / 19.578	3 / 9.965	20 / 87.984
<i>Subtotal Recurring</i>	3 / 12.192	- / -	3 / 13.351	1 / 4.557	- / -	1 / 4.557	2 / 9.279	2 / 9.446	2 / 9.616	4 / 19.578	3 / 9.965	20 / 87.984
<i>Total, DM007 - SPY-1D TRANSMITTER UPGRADES</i>	3 / 12.192	- / -	3 / 13.351	1 / 4.557	- / -	1 / 4.557	2 / 9.279	2 / 9.446	2 / 9.616	4 / 19.578	3 / 9.965	20 / 87.984
<i>Total Procurement, All Modifications</i>	3 / 12.192	- / -	3 / 13.351	1 / 4.557	- / -	1 / 4.557	2 / 9.279	2 / 9.446	2 / 9.616	4 / 19.578	3 / 9.965	20 / 87.984
<b>Support</b>												
2.1) ENGINEERING SERVICES	- / -	- / -	- / 1.930	- / 0.858	- / -	- / 0.858	- / 1.142	- / 1.094	- / 1.393	- / 1.843	- / 16.478	- / 24.738
<i>Total Support, All Modifications</i>	-	-	1.930	0.858	-	0.858	1.142	1.094	1.393	1.843	16.478	24.738
<i>Total Procurement and Support</i>	12.192	-	15.281	5.415	-	5.415	10.421	10.540	11.009	21.421	26.443	112.722
<i>Total Installation Cost</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total Cost (Procurement + Support + Installation)</b>	<b>12.192</b>	<b>-</b>	<b>15.281</b>	<b>5.415</b>	<b>-</b>	<b>5.415</b>	<b>10.421</b>	<b>10.540</b>	<b>11.009</b>	<b>21.421</b>	<b>26.443</b>	<b>112.722</b>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy						<b>Date:</b> April 2013	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment			<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod			<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 10 - DM007 - SPY-1D TRANSMITTER UPGRADES	
<b>Models of Systems Affected:</b> [No Model Specified]		<b>Type Modification:</b> [No Modification Type Specified]			<b>Related RDT&amp;E PEs:</b>		
<b>Manufacturer Information: DM007 - SPY-1D TRANSMITTER UPGRADES</b>							
Manufacturer Name: Raytheon				Manufacturer Location: Marlborough, MA			
Administrative Leadtime ( <i>in Months</i> ): 6				Production Leadtime ( <i>in Months</i> ): 18			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates		Jan 2013	Jun 2014	Jun 2015	Jun 2016	Jun 2017	Jun 2018
Delivery Dates		Jul 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019
<b>Installation:</b> DM007 - SPY-1D TRANSMITTER UPGRADES			<b>Method of Implementation:</b> Not Installed - SPY-1D TRANSMITTER UPGRADES EQUIPMENT			<b>Installation Quantity:</b> 20	

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment		<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod
		<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 11 - DM008 - MULTI-MISSION BMD CAPABILITY

**Models of Systems Affected:** [No Model Specified]     **Type Modification:** [No Modification Type Specified]     **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	5.356	-	4.834	1.650	-	1.650	3.360	3.420	3.482	7.089	33.971	63.162
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	5.356	-	4.834	1.650	-	1.650	3.360	3.420	3.482	7.089	33.971	63.162
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>5.356</b>	-	<b>4.834</b>	<b>1.650</b>	-	<b>1.650</b>	<b>3.360</b>	<b>3.420</b>	<b>3.482</b>	<b>7.089</b>	<b>33.971</b>	<b>63.162</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Procures Multi-Mission Ballistic Missile Defense (BMD) Capability combat systems that includes equipment procurement, recurring engineering, equipment integration and Integrated Logistics Support (ILS) products for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78), as well as Flight IIA ships (DDG 79-DDG 112).

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 11 - DM008 - MULTI-MISSION BMD CAPABILITY

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
DM008 - MULTI-MISSION BMD CAPABILITY												
B Kits												
Recurring												
1.1.1) MULTI-MISSION BMD EQUIPMENT - Organic	3 / 5.356	- / -	3 / 4.834	1 / 1.650	- / -	1 / 1.650	2 / 3.360	2 / 3.420	2 / 3.482	4 / 7.089	18 / 33.971	35 / 63.162
<i>Subtotal Recurring</i>	3 / 5.356	- / -	3 / 4.834	1 / 1.650	- / -	1 / 1.650	2 / 3.360	2 / 3.420	2 / 3.482	4 / 7.089	18 / 33.971	35 / 63.162
<i>Total, DM008 - MULTI-MISSION BMD CAPABILITY</i>	3 / 5.356	- / -	3 / 4.834	1 / 1.650	- / -	1 / 1.650	2 / 3.360	2 / 3.420	2 / 3.482	4 / 7.089	18 / 33.971	35 / 63.162
<b>Total Procurement, All Modifications</b>	3 / 5.356	- / -	3 / 4.834	1 / 1.650	- / -	1 / 1.650	2 / 3.360	2 / 3.420	2 / 3.482	4 / 7.089	18 / 33.971	35 / 63.162
<b>Total Procurement and Support</b>	5.356	-	4.834	1.650	-	1.650	3.360	3.420	3.482	7.089	33.971	63.162
<b>Total Installation Cost</b>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total Cost (Procurement + Support + Installation)</b>	5.356	-	4.834	1.650	-	1.650	3.360	3.420	3.482	7.089	33.971	63.162

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy					<b>Date:</b> April 2013			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment			<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod			<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 11 - DM008 - MULTI-MISSION BMD CAPABILITY		
<b>Models of Systems Affected:</b> [No Model Specified]		<b>Type Modification:</b> [No Modification Type Specified]			<b>Related RDT&amp;E PEs:</b>			
<b>Manufacturer Information: DM008 - MULTI-MISSION BMD CAPABILITY</b>								
Manufacturer Name: LOCKHEED MARTIN				Manufacturer Location: MOORESTOWN, NJ				
Administrative Leadtime ( <i>in Months</i> ): 6				Production Leadtime ( <i>in Months</i> ): 18				
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	
Contract Dates		Jan 2013	Jun 2014	Jun 2015	Jun 2016	Jun 2017	Jun 2018	
Delivery Dates		Jul 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019	
<b>Installation:</b> DM008 - MULTI-MISSION BMD CAPABILITY		<b>Method of Implementation:</b> Not Installed - MULTI-MISSION BMD EQUIPMENT			<b>Installation Quantity:</b> 35			

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 12 - DM009 - VLS UPGRADES

<b>Models of Systems Affected:</b> [No Model Specified]			<b>Type Modification:</b> [No Modification Type Specified]				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	25.871	1.200	21.161	9.491	-	9.491	19.167	17.758	21.135	34.282	232.490	382.555
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	25.871	1.200	21.161	9.491	-	9.491	19.167	17.758	21.135	34.282	232.490	382.555
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>25.871</b>	<b>1.200</b>	<b>21.161</b>	<b>9.491</b>	<b>-</b>	<b>9.491</b>	<b>19.167</b>	<b>17.758</b>	<b>21.135</b>	<b>34.282</b>	<b>232.490</b>	<b>382.555</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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 includes equipment procurement, recurring engineering, equipment integration and Integrated Logistics Support (ILS) products for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78), as well as Flight IIA ships (DDG 79-DDG 112).

**Engineering Services:**

Production Support Services are phased over a three year span starting two years prior to installation on a per hull basis. It includes 5 elements that are related to the production and delivery of a usable end-item: Production Engineering, Quality Assurance, Product Improvement, Acceptance Test and Evaluation, and Contractor Engineering and Technical Services (CETS). Due to the phasing of the requirement over a 3 year period, engineering services will fluctuate depending on the number of ships in each year.

5 elements and approximate breakdown is as follows:

Production Engineering includes preparation, test and technical evaluation of engineering changes to correct deficiencies in the production items; production configuration control; review and evaluation of production design data and documentation; and logistic supportability efforts.

Quality Assurance includes the preparation of procedures and the conduct of inspections, examinations and test during production that are necessary to deliver an item of the required quality as specified by the terms of the contract.

Product Improvement includes improving reliability/maintainability/availability, and the correction of deficiencies exclusive of contractual specifications.

Acceptance Test and Evaluation of a production item includes preparation of test plans, testing, data analysis, and data evaluation.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> <i>(Modification Number - Modification Title):</i> 12 - DM009 - VLS UPGRADES
<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>

Contractor Engineering and Technical Services (CETS) includes the furnishing of advice, instruction, and training by commercial or industrial companies.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 12 - DM009 - VLS UPGRADES

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
DM009 - VLS UPGRADES												
B Kits												
Recurring												
1.1.1) VLS EQUIPMENT - NonOrganic <sup>(7)</sup>	3 / 23.676	- / -	2 / 9.750	1 / 4.963	- / -	1 / 4.963	2 / 10.104	2 / 10.286	2 / 10.471	4 / 21.319	18 / 102.163	34 / 192.732
<i>Subtotal Recurring</i>	3 / 23.676	- / -	2 / 9.750	1 / 4.963	- / -	1 / 4.963	2 / 10.104	2 / 10.286	2 / 10.471	4 / 21.319	18 / 102.163	34 / 192.732
<i>Total, DM009 - VLS UPGRADES</i>	3 / 23.676	- / -	2 / 9.750	1 / 4.963	- / -	1 / 4.963	2 / 10.104	2 / 10.286	2 / 10.471	4 / 21.319	18 / 102.163	34 / 192.732
<i>Total Procurement, All Modifications</i>	3 / 23.676	- / -	2 / 9.750	1 / 4.963	- / -	1 / 4.963	2 / 10.104	2 / 10.286	2 / 10.471	4 / 21.319	18 / 102.163	34 / 192.732
<b>Support</b>												
2.1) ENGINEERING SERVICES	- / 1.695	- / -	- / 7.711	- / 3.428	- / -	- / 3.428	- / 4.563	- / 4.372	- / 5.564	- / 7.363	- / 65.827	- / 100.523
<i>Total Support, All Modifications</i>	1.695	-	7.711	3.428	-	3.428	4.563	4.372	5.564	7.363	65.827	100.523
<b>Total Procurement and Support</b>	25.371	-	17.461	8.391	-	8.391	14.667	14.658	16.035	28.682	167.990	293.255
DM009 - VLS UPGRADES Installation Cost	- / 0.500	- / 1.200	- / 3.700	- / 1.100	- / -	- / 1.100	- / 4.500	- / 3.100	- / 5.100	- / 5.600	- / 64.500	- / 89.300
<i>Total Installation Cost</i>	- / 0.500	- / 1.200	- / 3.700	- / 1.100	- / -	- / 1.100	- / 4.500	- / 3.100	- / 5.100	- / 5.600	- / 64.500	- / 89.300
<b>Total Cost (Procurement + Support + Installation)</b>	25.871	1.200	21.161	9.491	-	9.491	19.167	17.758	21.135	34.282	232.490	382.555

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 12 - DM009 - VLS UPGRADES

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: DM009 - VLS UPGRADES**

Manufacturer Name: LOCKHEED MARTIN	Manufacturer Location: MOORESTOWN, NJ
Administrative Leadtime ( <i>in Months</i> ): 6	Production Leadtime ( <i>in Months</i> ): 18

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates		Jul 2013	Jun 2014	Jun 2015	Jun 2016	Jun 2017	Jun 2018
Delivery Dates		Jan 2015	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019

**Installation: DM009 - VLS UPGRADES**      **Method of Implementation:** [none specified]      **Installation Name:** VLS EQUIPMENT

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	0 / 0.500	1 / 1.200	2 / 3.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 5.200
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / 0.200	- / 1.000	- / -	- / 1.000	2 / 3.700	- / -	- / -	- / -	- / -	2 / 4.900
FY 2014	- / -	- / -	- / -	- / 0.100	- / -	- / 0.100	- / 0.500	1 / 1.800	- / -	- / -	- / -	1 / 2.400
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.300	- / 1.000	2 / 3.700	- / -	- / -	2 / 5.000
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.300	- / 1.100	2 / 3.900	- / -	2 / 5.300
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.300	- / 1.100	2 / 4.200	2 / 5.600
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.600	4 / 11.000	4 / 11.600
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 49.300	18 / 49.300
Total	0 / 0.500	1 / 1.200	2 / 3.700	- / 1.100	- / -	- / 1.100	2 / 4.500	1 / 3.100	2 / 5.100	2 / 5.600	24 / 64.500	34 / 89.300

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	-	-	2	-	-	-	-	-	1	1	-	-	1	-	-	-	2	-	-	-	2	-	-	24	34
Out	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-	-	1	1	-	-	-	1	-	-	-	2	-	-	26	34

**Footnotes:**  
 (7) Common equipment procurements made in prior years for Cruiser Modernization will be utilized for one Destroyer Modernization in FY14. Equipment is available due to the decision to not upgrade some Cruisers.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 13 - DM010 - FCS STAMO

**Models of Systems Affected:** [No Model Specified]      **Type Modification:** [No Modification Type Specified]      **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	7.890	0.300	3.915	0.100	-	0.100	0.400	-	-	-	-	12.605
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	7.890	0.300	3.915	0.100	-	0.100	0.400	-	-	-	-	12.605
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>7.890</b>	<b>0.300</b>	<b>3.915</b>	<b>0.100</b>	<b>-</b>	<b>0.100</b>	<b>0.400</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>12.605</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Procures Stable Master Oscillator (STAMO) combat systems that includes equipment procurement, recurring engineering, equipment integration and Integrated Logistics Support (ILS) products for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78).

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 13 - DM010 - FCS STAMO

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
DM010 - FCS STAMO												
B Kits												
Recurring												
1.1.1) FCS STAMO EQUIPMENT - NonOrganic <sup>(8)</sup>	3 / 7.590	- / -	2 / 3.415	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 11.005
<i>Subtotal Recurring</i>	3 / 7.590	- / -	2 / 3.415	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 11.005
<i>Total, DM010 - FCS STAMO</i>	3 / 7.590	- / -	2 / 3.415	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 11.005
<b>Total Procurement, All Modifications</b>	3 / 7.590	- / -	2 / 3.415	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 11.005
<b>Total Procurement and Support</b>	7.590	-	3.415	-	-	-	-	-	-	-	-	11.005
DM010 - FCS STAMO Installation Cost	- / 0.300	- / 0.300	- / 0.500	- / 0.100	- / -	- / 0.100	- / 0.400	- / -	- / -	- / -	- / -	- / 1.600
<i>Total Installation Cost</i>	- / 0.300	- / 0.300	- / 0.500	- / 0.100	- / -	- / 0.100	- / 0.400	- / -	- / -	- / -	- / -	- / 1.600
<b>Total Cost (Procurement + Support + Installation)</b>	7.890	0.300	3.915	0.100	-	0.100	0.400	-	-	-	-	12.605

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 13 - DM010 - FCS STAMO

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: DM010 - FCS STAMO**

Manufacturer Name: Raytheon	Manufacturer Location: Marlborough, MA
Administrative Leadtime ( <i>in Months</i> ): 6	Production Leadtime ( <i>in Months</i> ): 18

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates		Jul 2013					
Delivery Dates		Jan 2015					

**Installation: DM010 - FCS STAMO**

**Method of Implementation:** [none specified]      **Installation Name:** FCS STAMO EQUIPMENT

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	0 / 0.300	1 / 0.300	2 / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.000
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / 0.100	- / 0.100	- / -	- / 0.100	2 / 0.400	- / -	- / -	- / -	- / -	2 / 0.600
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.300	1 / 0.300	2 / 0.500	- / 0.100	- / -	- / 0.100	2 / 0.400	- / -	- / -	- / -	- / -	5 / 1.600

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot	
		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	-	-	-	2	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Out	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	5

**Footnotes:**  
<sup>(8)</sup> STAMO has previously been installed on all DDG Flight IIAs. Common equipment procurements made in prior years for Cruiser Modernization will be utilized for one Destroyer Modernization in FY14. Equipment is available due to the decision to not upgrade some Cruisers.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 14 - DM011 - AN/SQQ-89 A(V15)

<b>Models of Systems Affected:</b> [No Model Specified]			<b>Type Modification:</b> [No Modification Type Specified]				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	29.139	5.100	28.597	13.059	-	13.059	19.141	24.357	33.977	31.385	95.907	280.662
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	29.139	5.100	28.597	13.059	-	13.059	19.141	24.357	33.977	31.385	95.907	280.662
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>29.139</b>	<b>5.100</b>	<b>28.597</b>	<b>13.059</b>	<b>-</b>	<b>13.059</b>	<b>19.141</b>	<b>24.357</b>	<b>33.977</b>	<b>31.385</b>	<b>95.907</b>	<b>280.662</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Procures improved AN/SQQ-89 A(V)15 with Multi-Functional Towed Array (MFTA) combat systems to replace the installed MIL-STD AN/SQQ-89(V) that includes equipment procurement, recurring engineering, equipment integration and Integrated Logistics Support (ILS) products for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78). Flight IIAs (DDG 79-112) have previously received an SQQ-89(A)V15 installation via IWS 5.0.

**Engineering Services:**

Production Support Services are phased over a three year span starting two years prior to installation on a per hull basis. It includes 5 elements that are related to the production and delivery of a usable end-item: Production Engineering, Quality Assurance, Product Improvement, Acceptance Test and Evaluation, and Contractor Engineering and Technical Services (CETS). Due to the phasing of the requirement over a 3 year period, engineering services will fluctuate depending on the number of ships in each year.

5 elements and approximate breakdown is as follows:

Production Engineering includes preparation, test and technical evaluation of engineering changes to correct deficiencies in the production items; production configuration control; review and evaluation of production design data and documentation; and logistic supportability efforts.

Quality Assurance includes the preparation of procedures and the conduct of inspections, examinations and test during production that are necessary to deliver an item of the required quality as specified by the terms of the contract.

Product Improvement includes improving reliability/maintainability/availability, and the correction of deficiencies exclusive of contractual specifications.

Acceptance Test and Evaluation of a production item includes preparation of test plans, testing, data analysis, and data evaluation.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> <i>(Modification Number - Modification Title):</i> 14 - DM011 - AN/SQQ-89 A(V15)
<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>

Contractor Engineering and Technical Services (CETS) includes the furnishing of advice, instruction, and training by commercial or industrial companies.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 14 - DM011 - AN/SQQ-89 A(V15)

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
DM011 - AN/SQQ-89 A(V15)												
B Kits												
Recurring												
1.1.1) AN/SQQ-89 EQUIPMENT A(V15) - NonOrganic (9)	3 / 23.414	- / -	2 / 14.870	1 / 7.569	- / -	1 / 7.569	1 / 7.705	2 / 15.688	3 / 23.955	2 / 16.258	1 / 8.129	15 / 117.588
<i>Subtotal Recurring</i>	3 / 23.414	- / -	2 / 14.870	1 / 7.569	- / -	1 / 7.569	1 / 7.705	2 / 15.688	3 / 23.955	2 / 16.258	1 / 8.129	15 / 117.588
<i>Total, DM011 - AN/SQQ-89 A(V15)</i>	3 / 23.414	- / -	2 / 14.870	1 / 7.569	- / -	1 / 7.569	1 / 7.705	2 / 15.688	3 / 23.955	2 / 16.258	1 / 8.129	15 / 117.588
<i>Total Procurement, All Modifications</i>	3 / 23.414	- / -	2 / 14.870	1 / 7.569	- / -	1 / 7.569	1 / 7.705	2 / 15.688	3 / 23.955	2 / 16.258	1 / 8.129	15 / 117.588
<b>Support</b>												
2.1) ENGINEERING SERVICES	- / 4.625	- / -	- / 6.727	- / 2.990	- / -	- / 2.990	- / 3.136	- / 3.169	- / 3.322	- / 3.527	- / 57.428	- / 84.924
<i>Total Support, All Modifications</i>	4.625	-	6.727	2.990	-	2.990	3.136	3.169	3.322	3.527	57.428	84.924
<i>Total Procurement and Support</i>	28.039	-	21.597	10.559	-	10.559	10.841	18.857	27.277	19.785	65.557	202.512
DM011 - AN/SQQ-89 A(V15) Installation Cost	- / 1.100	- / 5.100	- / 7.000	- / 2.500	- / -	- / 2.500	- / 8.300	- / 5.500	- / 6.700	- / 11.600	- / 30.350	- / 78.150
<i>Total Installation Cost</i>	- / 1.100	- / 5.100	- / 7.000	- / 2.500	- / -	- / 2.500	- / 8.300	- / 5.500	- / 6.700	- / 11.600	- / 30.350	- / 78.150
<b>Total Cost (Procurement + Support + Installation)</b>	<b>29.139</b>	<b>5.100</b>	<b>28.597</b>	<b>13.059</b>	<b>-</b>	<b>13.059</b>	<b>19.141</b>	<b>24.357</b>	<b>33.977</b>	<b>31.385</b>	<b>95.907</b>	<b>280.662</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 14 - DM011 - AN/SQQ-89 A(V15)

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information:</b> DM011 - AN/SQQ-89 A(V15)	
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Manufacturer Name: Lockheed Martin	Manufacturer Location: Syracuse, NY
Administrative Leadtime ( <i>in Months</i> ): 6	Production Leadtime ( <i>in Months</i> ): 18

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates		Jul 2013	Jun 2014	Jun 2015	Jun 2016	Jun 2017	Jun 2018
Delivery Dates		Jan 2015	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019

<b>Installation:</b> DM011 - AN/SQQ-89 A(V15)	<b>Method of Implementation:</b> [none specified]	<b>Installation Name:</b> AN/SQQ-89 EQUIPMENT A(V15)
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	0 / 1.100	1 / 5.100	2 / 6.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 12.700
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / 0.500	- / 2.300	- / -	- / 2.300	2 / 7.000	- / -	- / -	- / -	- / -	2 / 9.800
FY 2014	- / -	- / -	- / -	- / 0.200	- / -	- / 0.200	- / 1.100	1 / 3.900	- / -	- / -	- / -	1 / 5.200
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.200	- / 1.100	1 / 3.500	- / -	- / -	1 / 4.800
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.500	- / 2.400	2 / 7.400	- / -	2 / 10.300
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.800	- / 3.700	3 / 12.250	3 / 16.750
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.500	2 / 8.800	2 / 9.300
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 9.300	1 / 9.300
Total	0 / 1.100	1 / 5.100	2 / 7.000	- / 2.500	- / -	- / 2.500	2 / 8.300	1 / 5.500	1 / 6.700	2 / 11.600	6 / 30.350	15 / 78.150

Installation Schedule		FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
	APY	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	-	-	-	2	-	-	-	-	-	1	1	-	-	1	-	-	-	1	-	-	1	1	-	-	6	15
Out	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-	-	1	1	-	1	-	-	-	1	-	-	2	-	6	15

**Footnotes:**  
<sup>(9)</sup> Common equipment procurements made in prior years for Cruiser Modernization will be utilized for one Destroyer Modernization in FY14. Equipment is available due to the decision to not upgrade some Cruisers.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 15 - DM012 - CEC

<b>Models of Systems Affected:</b> [No Model Specified]			<b>Type Modification:</b> [No Modification Type Specified]				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	15.381	2.500	12.907	0.800	-	0.800	1.900	-	-	-	-	33.488
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	15.381	2.500	12.907	0.800	-	0.800	1.900	-	-	-	-	33.488
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>15.381</b>	<b>2.500</b>	<b>12.907</b>	<b>0.800</b>	<b>-</b>	<b>0.800</b>	<b>1.900</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>33.488</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Procures Cooperative Engagement Capability (CEC) combat systems that includes equipment procurement, recurring engineering, equipment integration and Integrated Logistics Support (ILS) products for 28 in-service Flight I and II DDG 51 Class ships (DDG 51-DDG 78). Flight IIA's (DDG 79-112) have previously received CEC installation via IWS 6.0.

Engineering Services:

Production Support Services are phased over a three year span starting two years prior to installation on a per hull basis. It includes 5 elements that are related to the production and delivery of a usable end-item: Production Engineering, Quality Assurance, Product Improvement, Acceptance Test and Evaluation, and Contractor Engineering and Technical Services (CETS). Due to the phasing of the requirement over a 3 year period, engineering services will fluctuate depending on the number of ships in each year.

5 elements and approximate breakdown is as follows:

Production Engineering includes preparation, test and technical evaluation of engineering changes to correct deficiencies in the production items; production configuration control; review and evaluation of production design data and documentation; and logistic supportability efforts.

Quality Assurance includes the preparation of procedures and the conduct of inspections, examinations and test during production that are necessary to deliver an item of the required quality as specified by the terms of the contract.

Product Improvement includes improving reliability/maintainability/availability, and the correction of deficiencies exclusive of contractual specifications.

Acceptance Test and Evaluation of a production item includes preparation of test plans, testing, data analysis, and data evaluation.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> <i>(Modification Number - Modification Title):</i> 15 - DM012 - CEC
<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>

Contractor Engineering and Technical Services (CETS) includes the furnishing of advice, instruction, and training by commercial or industrial companies.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 15 - DM012 - CEC

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
DM012 - CEC												
B Kits												
Recurring												
1.1.1) CEC EQUIPMENT - NonOrganic <sup>(10)</sup>	3 / 13.112	- / -	2 / 9.064	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 22.176
<i>Subtotal Recurring</i>	3 / 13.112	- / -	2 / 9.064	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 22.176
<i>Total, DM012 - CEC</i>	3 / 13.112	- / -	2 / 9.064	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 22.176
<i>Total Procurement, All Modifications</i>	3 / 13.112	- / -	2 / 9.064	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 22.176
<b>Support</b>												
2.1) ENGINEERING SERVICES	- / 1.169	- / -	- / 2.043	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.212
<i>Total Support, All Modifications</i>	1.169	-	2.043	-	-	-	-	-	-	-	-	3.212
<b>Total Procurement and Support</b>	14.281	-	11.107	-	-	-	-	-	-	-	-	25.388
DM012 - CEC Installation Cost	- / 1.100	- / 2.500	- / 1.800	- / 0.800	- / -	- / 0.800	- / 1.900	- / -	- / -	- / -	- / -	- / 8.100
<b>Total Installation Cost</b>	- / 1.100	- / 2.500	- / 1.800	- / 0.800	- / -	- / 0.800	- / 1.900	- / -	- / -	- / -	- / -	- / 8.100
<b>Total Cost (Procurement + Support + Installation)</b>	15.381	2.500	12.907	0.800	-	0.800	1.900	-	-	-	-	33.488

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0900 - DDG Mod	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 15 - DM012 - CEC

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information:</b> DM012 - CEC	
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Manufacturer Name: Raytheon	Manufacturer Location: St. Petersburg, FL
Administrative Leadtime ( <i>in Months</i> ): 6	Production Leadtime ( <i>in Months</i> ): 18

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates		Jul 2013					
Delivery Dates		Jan 2015					

<b>Installation:</b> DM012 - CEC	<b>Method of Implementation:</b> [none specified]	<b>Installation Name:</b> CEC EQUIPMENT
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	0 / 1.100	1 / 2.500	2 / 1.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 5.300
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / 0.100	- / 0.800	- / -	- / 0.800	2 / 1.900	- / -	- / -	- / -	- / -	2 / 2.800
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 1.100	1 / 2.500	2 / 1.800	- / 0.800	- / -	- / 0.800	2 / 1.900	- / -	- / -	- / -	- / -	5 / 8.100

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot		
		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	-	-	-	2	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Out	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	5

**Footnotes:**  
<sup>(10)</sup> Common equipment procurements made in prior years for Cruiser Modernization will be utilized for one Destroyer Modernization in FY14. Equipment is available due to the decision to not upgrade some Cruisers.

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0910 - Firefighting Equipment

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	45.698	17.064	16.958	14.389	-	14.389	20.305	17.433	16.772	17.098	356.441	522.158
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	45.698	17.064	16.958	14.389	-	14.389	20.305	17.433	16.772	17.098	356.441	522.158
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>45.698</b>	<b>17.064</b>	<b>16.958</b>	<b>14.389</b>	<b>-</b>	<b>14.389</b>	<b>20.305</b>	<b>17.433</b>	<b>16.772</b>	<b>17.098</b>	<b>356.441</b>	<b>522.158</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

The Navy decided that a number of survivability improvements needed to be incorporated into mission-essential ship and combat systems during their acquisition and modernization. Shipboard fires have emphasized the urgent need to upgrade features and design standards that contribute to survivability.

[P40A / HB003 - BREATHING APPARATUS REPLACEMENT]: Breathing apparatus are reaching service life of 15 years and must be replaced. There is no installation associated with this replacement. There are 3 types of apparatus which require replacement: (1) confined-space entry breathing apparatus, which are the first requiring replacement; (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 FY12 includes cost to replace equipment at fleet training centers.

[P40A / HB004 - CARBON MONOXIDE MONITOR]: Funding is for procurement of carbon monoxide monitors for breathing apparatus portable compressors, as required by 29CFR1910.134B OPNAVINST 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.

[P40A / HB005 - AFFF UPGRADES]: 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.

[P40A / HB830 PRODUCTION ENGINEERING]: 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.

[P3A / HB002 - MAGAZINE SPRINKLING IMPROVEMENT]: HB002 - MAGAZINE SPRINKLING IMPROVEMENT  
Replaces the detection system designed in the 1960s, which performs poorly and is difficult to support and maintain.

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0910 - Firefighting Equipment

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

[P3A / AFFF H2S CONTROL VALVES/H2S MITIGATION]: HB005 - AQUEOUS FILM-FORMING FOAM (AFFF)  
Procures and installs equipment to dispense chemicals into AFFF systems to prevent-sulfate reducing bacteria from producing hydrogen sulfide (H2S). H2S is a dangerous gas and is responsible for a fatality aboard ship in 2005.

[P3A / HB007 SOPV REPLACEMENT]: HB007 - REPLACE SOLENOID-OPERATED PILOT VALVE (SOPV)  
The SOPV is a high-maintenance item. The SOPV provides a way for remote control of AFFF and countermeasure wash down (CMWD) systems. Replacement is required to 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.

[P3A / .HB009 FIREFIGHTER ACCESS]: HB009 - FIREFIGHTER ACCESS  
Provides safe entry for heavily-laden firefighters down the escape trunks of a ship, and provides a method for hoisting the firefighters back up to the damage control deck. Firefighter access is provided in DDG-75 and follow, and LHD-5 and follow, during construction. Units are quantity of ships; equipment cost varies by ship.

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Firefighting Equipment	P40A, P5A				26.566			14.327			12.034			13.953			-			13.953
1 - HB002 - MAGAZINE SPRINKLING IMPROVEMENT	P3A				0.000			1.246			2.655			0.436			-			0.436
2 - HB005 - AQUEOUS FILM-FORMING FOAM (AFFF)	P3A				11.818			-			-			-			-			-
3 - HB007 - SOPV REPLACEMENT	P3A				0.424			0.823			1.848			-			-			-
4 - HB009 - FIREFIGHTER ACCESS	P3A				6.890			0.668			0.421			-			-			-
<b>Total Gross/Weapon System Cost</b>					<b>45.698</b>			<b>17.064</b>			<b>16.958</b>			<b>14.389</b>			<b>-</b>			<b>14.389</b>

Item Schedule		ID CD	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Firefighting Equipment	P40A, P5A				-			-			-			-			-			-
1 - HB002 - MAGAZINE SPRINKLING IMPROVEMENT	P3A				4.438			4.245			2.493			5.532			244.199			265.244



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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0910 - Firefighting Equipment

**Aggregated Item Name:**  
Firefighting Equipment

Items († indicates the presence of a P-5A)	ID	MDAP/ MAIS CD	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)															
<b>1) HB003 - BREATHING APPARATUS REPLACEMENT (1)</b>																				
† 1.1) CONFINED - SPACE ENTRY BREATHING APPARATUS	A		23,406.78	118	2.762	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 1.2) EMERGENCY ESCAPE BREATHING DEVICES (EEBD)	A		943,000.00	1	0.943	256,666.67	12	3.080	261,285.71	14	3.658	207,428.57	28	5.808	-	-	-	207,428.57	28	5.808
† 1.3) SELF-CONTAINED BREATHING APPARATUS (SCBA)	A		-	-	-	374,300.00	20	7.486	573,909.09	11	6.313	542,846.15	13	7.057	-	-	-	542,846.15	13	7.057
<i>Subtotal 1) HB003 - BREATHING APPARATUS REPLACEMENT</i>					3.705			10.566			9.971			12.865				-		12.865
<b>2) HB004 - CARBON MONOXIDE MONITOR</b>																				
† 2.1) CARBON MONOXIDE MONITOR	A		-	-	-	4,610.00	327	1.507	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) HB004 - CARBON MONOXIDE MONITOR</i>					-			1.507			-			-				-		-
<b>3) HB005 - AFFF UPGRADES</b>																				
3.1) AFFF IMPROVED FIREFIGHTING	A		342,857.14	35	12.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 3) HB005 - AFFF UPGRADES</i>					12.000			-			-			-				-		-
<b>4) HB830 PRODUCTION ENGINEERING</b>																				
4.1) HB830 - PRODUCTION ENGINEERING	A		-	-	10.861	-	-	2.254	-	-	2.063	-	-	1.088	-	-	-	-	-	1.088
<i>Subtotal 4) HB830 PRODUCTION ENGINEERING</i>					10.861			2.254			2.063			1.088				-		1.088
<b>Total</b>					<b>26.566</b>			<b>14.327</b>			<b>12.034</b>			<b>13.953</b>				<b>-</b>		<b>13.953</b>

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**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0910 - Firefighting Equipment

**Aggregated Item Name:**  
Firefighting Equipment

Items († indicates the presence of a P-5A)	ID CD	MDAP/ MAIS Code	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) HB003 - BREATHING APPARATUS REPLACEMENT (1)</b>																				
† 1.1) CONFINED - SPACE ENTRY BREATHING APPARATUS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 1.2) EMERGENCY ESCAPE BREATHING DEVICES (EEBD)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 1.3) SELF-CONTAINED BREATHING APPARATUS (SCBA)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 1) HB003 - BREATHING APPARATUS REPLACEMENT</i>																				
<b>2) HB004 - CARBON MONOXIDE MONITOR</b>																				
† 2.1) CARBON MONOXIDE MONITOR	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) HB004 - CARBON MONOXIDE MONITOR</i>																				
<b>3) HB005 - AFFF UPGRADES</b>																				
3.1) AFFF IMPROVED FIREFIGHTING	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 3) HB005 - AFFF UPGRADES</i>																				
<b>4) HB830 PRODUCTION ENGINEERING</b>																				
4.1) HB830 - PRODUCTION ENGINEERING	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 4) HB830 PRODUCTION ENGINEERING</i>																				
<b>Total</b>																				

**Footnotes:**  
(1) HB003 - FY12 EEBD's are for 1 CG, 7 DDG, FFG-61, and 3 LSD; FY13 is for 1 CG, 5 DDG's, 1 LHD, and 7 MCM's. FY12 SCBA's are for 8DDG's, 1 LHD and 11 CNE training centers; FY13 SCBA's are for 1 CG, 9 DDG's, and 1 LHD. SCBA replacement includes the apparatus, 45-minute air cylinders, and 30-minute air cylinders. New type of carbon-fiber replacement cylinders are approved for 30-year service life.

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Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Navy										Date: April 2013		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment				P-1 Line Item Nomenclature: 0910 - Firefighting Equipment				Aggregated Item Name: Firefighting Equipment				
Items	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>1) HB003 - BREATHING APPARATUS REPLACEMENT</b>												
1.1) CONFINED - SPACE ENTRY BREATHING APPARATUS		2011	SCOTT HEALTH & SAFETY / MONROE, NC	C / IDIQ	NSWC, PCD	Dec 2010	Feb 2011	63	23,810.00	Y		
1.2) EMERGENCY ESCAPE BREATHING DEVICES (EEBD)		2011	OCENCO <sup>(2)</sup> / PLEASANT PRAIRIE, WI	SS / FFP	NSWC, PCD	Dec 2011	Jan 2012	1	943,000.00	Y		
1.2) EMERGENCY ESCAPE BREATHING DEVICES (EEBD)		2012	OCENCO <sup>(2)</sup> / PLEASANT PRAIRIE, WI	SS / FFP	NSWC, PCD	Aug 2012	Sep 2012	12	256,666.67	Y		
1.2) EMERGENCY ESCAPE BREATHING DEVICES (EEBD)		2013	OCENCO <sup>(2)</sup> / PLEASANT PRAIRIE, WI	C / FP	NSWC, PCD	Dec 2012	Apr 2013	14	261,285.71	Y		
1.2) EMERGENCY ESCAPE BREATHING DEVICES (EEBD)		2014	TBD <sup>(3)</sup> / TBD	C / FP	NSWC, PCD	Jan 2014	Apr 2014	28	207,428.57	Y		
1.3) SELF-CONTAINED BREATHING APPARATUS (SCBA)		2012	SCOTT HEALTH & SAFETY / MONROE, NC	C / FP	NSWC, PCD	Jun 2012	Sep 2012	20	374,300.00	Y		
1.3) SELF-CONTAINED BREATHING APPARATUS (SCBA)		2013	SCOTT HEALTH & SAFETY / MONROE, NC	C / FP	NSWC, PCD	Dec 2012	Mar 2013	11	573,909.09	Y		
1.3) SELF-CONTAINED BREATHING APPARATUS (SCBA)		2014	SCOTT HEALTH & SAFETY / MONROE, NC	C / FP	NSWC, PCD	Jan 2014	Apr 2014	13	542,846.15	Y		
<b>2) HB004 - CARBON MONOXIDE MONITOR</b>												
2.1) CARBON MONOXIDE MONITOR		2012 <sup>(4)</sup>	TBD / UNKNOWN	C / FP	NSWC, PCD	May 2012	Sep 2012	327	4,610.00	Y		
<b>Footnotes:</b> (2) Sole-source contract (3) New competitive contract (4) Multiple vendors and government assembled												

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0910 - Firefighting Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - HB002 - MAGAZINE SPRINKLING IMPROVEMENT

**Models of Systems Affected:** [No Model Specified]      **Type Modification:** [No Modification Type Specified]      **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	1.246	2.655	0.436	-	0.436	4.438	4.245	2.493	5.532	244.199	265.244
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	1.246	2.655	0.436	-	0.436	4.438	4.245	2.493	5.532	244.199	265.244
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>0.000</b>	<b>1.246</b>	<b>2.655</b>	<b>0.436</b>	<b>-</b>	<b>0.436</b>	<b>4.438</b>	<b>4.245</b>	<b>2.493</b>	<b>5.532</b>	<b>244.199</b>	<b>265.244</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

[MAGAZINE SPRINKLING IMPROVEMENT] Magazine sprinkling improvement replaces the detection system designed in the 1960s, which performs poorly and is difficult to support and maintain. Magazine sprinkling improvements may require installation by shipyards and if so will be programmed for CNO availabilities. Delivery of each ship set is planned for several months in advance of availability start to reduce risk of ship availability changes. Unit costs vary significantly by ship class. FY12 equipment (\$0.953) is for 3 DDG's (\$0.682M) and data deliverables (\$0.271M). Equipment pricing is actual contact price. There is no cost growth in equipment cost. Units are quantities of ships; equipment cost varies by ship.

Procurement is for Fire Detection and Actuation Systems (FDAS) and for motor-operated pilot valves (MOPV). The MOPV is the same item procured to replace SOPVs under HB007, resulting in reduced unit costs in some years, and in reduced logistics costs.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0910 - Firefighting Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - HB002 - MAGAZINE SPRINKLING IMPROVEMENT

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
HB002 - MAGAZINE SPRINKLING IMPROVEMENT												
B Kits												
Recurring												
1.1.1) MAGAZINE SPRINKLING IMPROVEMENT - NonOrganic	- / -	3 / 0.953	- / -	- / -	- / -	- / -	3 / 0.959	3 / 0.973	2 / 0.554	5 / 1.412	99 / 40.528	115 / 45.379
1.1.2) DSA COST - Organic	- / -	- / 0.293	- / 0.149	- / 0.436	- / -	- / 0.436	- / 0.670	- / 0.414	- / 0.647	- / 0.825	- / 46.844	- / 50.278
<i>Subtotal Recurring</i>	- / -	3 / 1.246	- / 0.149	- / 0.436	- / -	- / 0.436	3 / 1.629	3 / 1.387	2 / 1.201	5 / 2.237	99 / 87.372	115 / 95.657
<i>Total, HB002 - MAGAZINE SPRINKLING IMPROVEMENT</i>	- / -	3 / 1.246	- / 0.149	- / 0.436	- / -	- / 0.436	3 / 1.629	3 / 1.387	2 / 1.201	5 / 2.237	99 / 87.372	115 / 95.657
<i>Total Procurement, All Modifications</i>	- / -	3 / 1.246	- / 0.149	- / 0.436	- / -	- / 0.436	3 / 1.629	3 / 1.387	2 / 1.201	5 / 2.237	99 / 87.372	115 / 95.657
<i>Total Procurement and Support</i>	-	1.246	0.149	0.436	-	0.436	1.629	1.387	1.201	2.237	87.372	95.657
HB002 - MAGAZINE SPRINKLING IMPROVEMENT Installation Cost	- / 0.000	- / -	- / 2.506	- / -	- / -	- / -	- / 2.809	- / 2.858	- / 1.292	- / 3.295	- / 156.827	- / 169.587
<i>Total Installation Cost</i>	- / 0.000	- / -	- / 2.506	- / -	- / -	- / -	- / 2.809	- / 2.858	- / 1.292	- / 3.295	- / 156.827	- / 169.587
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	<b>1.246</b>	<b>2.655</b>	<b>0.436</b>	<b>-</b>	<b>0.436</b>	<b>4.438</b>	<b>4.245</b>	<b>2.493</b>	<b>5.532</b>	<b>244.199</b>	<b>265.244</b>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0910 - Firefighting Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - HB002 - MAGAZINE SPRINKLING IMPROVEMENT

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: HB002 - MAGAZINE SPRINKLING IMPROVEMENT**

Manufacturer Name: Marotta <sup>(5)</sup>				Manufacturer Location: Montville, NJ			
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 4			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates	May 2012	May 2013					
Delivery Dates	Sep 2012	Sep 2013					

Manufacturer Name: Dynalec Corp. <sup>(6)</sup>				Manufacturer Location: Sodus, N.Y.			
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 4			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates	May 2012	May 2013					
Delivery Dates	Mar 2013	Sep 2013					

<b>Installation:</b> HB002 - MAGAZINE SPRINKLING IMPROVEMENT	<b>Method of Implementation:</b> SHIPALT	<b>Installation Name:</b> MAGAZINE SPRINKLING IMPROVEMENT
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<b>Installation Cost</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO</b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
	<i>Qty (Each) / Total Cost (\$ M)</i>											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	3 / 2.506	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 2.506
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	3 / 2.809	- / -	- / -	- / -	- / -	3 / 2.809
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 2.858	- / -	- / -	- / -	3 / 2.858
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.292	- / -	- / -	2 / 1.292
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 3.295	- / -	5 / 3.295
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	99 / 156.827	99 / 156.827
<b>Total</b>	- / -	- / -	3 / 2.506	- / -	- / -	- / -	3 / 2.809	3 / 2.858	2 / 1.292	5 / 3.295	99 / 156.827	115 / 169.587

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0910 - Firefighting Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - HB002 - MAGAZINE SPRINKLING IMPROVEMENT

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> HB002 - MAGAZINE SPRINKLING IMPROVEMENT	<b>Method of Implementation:</b> SHIPALT	<b>Installation Name:</b> MAGAZINE SPRINKLING IMPROVEMENT
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Installation Schedule																																				
	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot					
		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	-	-	-	-	-	-	-	-	3	-	-	-	-	3	-	-	-	-	2	-	-	-	-	5	99	115	
Out	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	3	-	-	-	-	3	-	-	-	-	2	-	-	-	-	-	104	115

**Footnotes:**  
<sup>(5)</sup> Same contract for HB007 requirements  
<sup>(6)</sup> Award for first article testing 2012-05

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0910 - Firefighting Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - HB005 - AQUEOUS FILM-FORMING FOAM (AFFF)

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	11.818	-	-	-	-	-	-	-	-	-	-	11.818
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	11.818	-	-	-	-	-	-	-	-	-	-	11.818
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>11.818</b>	-	-	-	-	-	-	-	-	-	-	<b>11.818</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

[AFFF H2S CONTROL VALVES/H2S MITIGATION] HB005 - 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.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0910 - Firefighting Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - HB005 - AQUEOUS FILM-FORMING FOAM (AFFF)

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
HB005 - AQUEOUS FILM-FORMING FOAM (AFFF)												
B Kits												
Non-Recurring												
1.1.1) AFFF H2S CONTROL VALVES/H2S MITIGATION - NonOrganic	10 / 1.475	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.475
<i>Subtotal Non-Recurring</i>	10 / 1.475	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.475
<i>Total, HB005 - AQUEOUS FILM-FORMING FOAM (AFFF)</i>	10 / 1.475	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.475
<b>Total Procurement, All Modifications</b>	10 / 1.475	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.475
<b>Total Procurement and Support</b>	1.475	-	-	-	-	-	-	-	-	-	-	1.475
HB005 - AQUEOUS FILM-FORMING FOAM (AFFF) Installation Cost	- / 10.343	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.343
<i>Total Installation Cost</i>	- / 10.343	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.343
<b>Total Cost (Procurement + Support + Installation)</b>	11.818	-	-	-	-	-	-	-	-	-	-	11.818

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0910 - Firefighting Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - HB005 - AQUEOUS FILM-FORMING FOAM (AFFF)

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: HB005 - AQUEOUS FILM-FORMING FOAM (AFFF)**

Manufacturer Name: New MFG - Name	Manufacturer Location: New MFG - Loc
Administrative Leadtime ( <i>in Months</i> ): 0	Production Leadtime ( <i>in Months</i> ): 0

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates							
Delivery Dates							

<b>Installation:</b> HB005 - AQUEOUS FILM-FORMING FOAM (AFFF)	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> AFFF H2S CONTROL VALVES/H2S MITIGATION
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	10 / 10.343	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 10.343
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	10 / 10.343	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 10.343

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
Out	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0910 - Firefighting Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - HB007 - SOPV REPLACEMENT

<b>Models of Systems Affected:</b> [No Model Specified]			<b>Type Modification:</b> [No Modification Type Specified]				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.424	0.823	1.848	-	-	-	-	1.156	1.636	1.674	65.864	73.425
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.424	0.823	1.848	-	-	-	-	1.156	1.636	1.674	65.864	73.425
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.424</b>	<b>0.823</b>	<b>1.848</b>	-	-	-	-	<b>1.156</b>	<b>1.636</b>	<b>1.674</b>	<b>65.864</b>	<b>73.425</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

[HB007 SOPV REPLACEMENT] The FY11 cost was for two first articles, which completed successful first article testing, and two DDG-51 Class ship sets. The first articles are not installed aboard ships. Units in FY 12 and out are quantity of ships; number for SOPV's replaced varies by ship. Unit costs vary significantly by ship class. FY12 cost is for one DDG-51 Clas ship set. FY13 cost is for seven DDG-51 Class ship sets.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0910 - Firefighting Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - HB007 - SOPV REPLACEMENT

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
HB007 - SOPV REPLACEMENT												
B Kits												
Recurring												
1.1.1) HB007 SOPV REPLACEMENT - NonOrganic	2 / 0.184	1 / 0.084	7 / 0.565	- / -	- / -	- / -	- / -	4 / 0.378	6 / 0.518	6 / 0.533	122 / 21.615	148 / 23.877
1.1.2) HB007 SOPV REPLACEMENT FIRST ARTICLES - Organic <sup>(7)</sup>	2 / 0.240	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.240
1.1.3) DSA COST - Organic	- / -	- / 0.290	- / 0.517	- / -	- / -	- / -	- / -	- / 0.313	- / 0.408	- / 0.416	- / 17.832	- / 19.776
<b>Subtotal Recurring</b>	<b>4 / 0.424</b>	<b>1 / 0.374</b>	<b>7 / 1.082</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>4 / 0.691</b>	<b>6 / 0.926</b>	<b>6 / 0.949</b>	<b>122 / 39.447</b>	<b>150 / 43.893</b>
<b>Total, HB007 - SOPV REPLACEMENT</b>	<b>4 / 0.424</b>	<b>1 / 0.374</b>	<b>7 / 1.082</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>4 / 0.691</b>	<b>6 / 0.926</b>	<b>6 / 0.949</b>	<b>122 / 39.447</b>	<b>150 / 43.893</b>
<b>Total Procurement, All Modifications</b>	<b>4 / 0.424</b>	<b>1 / 0.374</b>	<b>7 / 1.082</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>4 / 0.691</b>	<b>6 / 0.926</b>	<b>6 / 0.949</b>	<b>122 / 39.447</b>	<b>150 / 43.893</b>
<b>Total Procurement and Support</b>	<b>0.424</b>	<b>0.374</b>	<b>1.082</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.691</b>	<b>0.926</b>	<b>0.949</b>	<b>39.447</b>	<b>43.893</b>
HB007 - SOPV REPLACEMENT Installation Cost	- / 0.000	- / 0.449	- / 0.766	- / -	- / -	- / -	- / -	- / 0.465	- / 0.710	- / 0.725	- / 26.417	- / 29.532
<b>Total Installation Cost</b>	<b>- / 0.000</b>	<b>- / 0.449</b>	<b>- / 0.766</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / 0.465</b>	<b>- / 0.710</b>	<b>- / 0.725</b>	<b>- / 26.417</b>	<b>- / 29.532</b>
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.424</b>	<b>0.823</b>	<b>1.848</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.156</b>	<b>1.636</b>	<b>1.674</b>	<b>65.864</b>	<b>73.425</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0910 - Firefighting Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - HB007 - SOPV REPLACEMENT

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: HB007 - SOPV REPLACEMENT**

Manufacturer Name: Marotta <sup>(8)</sup>	Manufacturer Location: Montville, NJ
Administrative Leadtime ( <i>in Months</i> ): 0	Production Leadtime ( <i>in Months</i> ): 4

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	May 2012	May 2013					
Delivery Dates	Sep 2012	Sep 2013					

**Installation: HB007 - SOPV REPLACEMENT**      **Method of Implementation: SHIPALT - AIT**      **Installation Name: HB007 SOPV REPLACEMENT**

	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	2 / 0.299	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.299
FY 2012	- / -	1 / 0.150	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.150
FY 2013	- / -	- / -	3 / 0.766	4 / -	- / -	4 / -	- / -	- / -	- / -	- / -	- / -	7 / 0.766
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.465	- / -	- / -	- / -	4 / 0.465
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.710	- / -	- / -	6 / 0.710
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.725	- / -	6 / 0.725
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	122 / 26.417	122 / 26.417
Total	- / -	3 / 0.449	3 / 0.766	4 / -	- / -	4 / -	- / -	4 / 0.465	6 / 0.710	6 / 0.725	122 / 26.417	148 / 29.532

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	-	-	3	4	-	-	-	-	-	-	-	-	-	2	2	-	-	3	3	-	-	3	3	122	148
Out	-	-	-	-	3	-	-	-	3	4	-	-	-	-	-	-	-	-	-	2	2	-	-	3	3	-	-	3	3	122	148

<b>Installation:</b> HB007 - SOPV REPLACEMENT	<b>Method of Implementation:</b> Not Installed - HB007 SOPV REPLACEMENT FIRST ARTICLES	<b>Installation Quantity:</b> 2
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**Footnotes:**  
<sup>(7)</sup> The FY11 cost is for two first articles and first article testing. First articles will not be installed.

UNCLASSIFIED

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0910 - Firefighting Equipment	<b>Modification Nomenclature</b> <i>(Modification Number - Modification Title):</i> 3 - HB007 - SOPV REPLACEMENT
<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>

<sup>(8)</sup> Same contract provides motor-operated pilot valve requirements under HB002

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0910 - Firefighting Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - HB009 - FIREFIGHTER ACCESS

<b>Models of Systems Affected:</b> [No Model Specified]			<b>Type Modification:</b> [No Modification Type Specified]				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	6.890	0.668	0.421	-	-	-	0.112	-	0.119	-	-	8.210
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	6.890	0.668	0.421	-	-	-	0.112	-	0.119	-	-	8.210
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>6.890</b>	<b>0.668</b>	<b>0.421</b>	-	-	-	<b>0.112</b>	-	<b>0.119</b>	-	-	<b>8.210</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

[.HB009 FIREFIGHTER ACCESS] 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. Equipment procured in FY12 is for FY13, FY15, & FY17 and is procured ahead due to equipment contract expiration in FY12. This avoids cost to recontract and insures commonality of equipment in the fleet at a warehousing cost of \$1K. FY12 equipment is for 6 LPD's.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0910 - Firefighting Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - HB009 - FIREFIGHTER ACCESS

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
HB009 - FIREFIGHTER ACCESS												
B Kits												
Recurring												
1.1.1) .HB009 FIREFIGHTER ACCESS - NonOrganic <sup>(9)</sup>	45 / 2.756	6 / 0.395	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	51 / 3.151
<i>Subtotal Recurring</i>	45 / 2.756	6 / 0.395	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	51 / 3.151
<i>Total, HB009 - FIREFIGHTER ACCESS</i>	45 / 2.756	6 / 0.395	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	51 / 3.151
<b>Total Procurement, All Modifications</b>	45 / 2.756	6 / 0.395	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	51 / 3.151
<b>Total Procurement and Support</b>	2.756	0.395	-	-	-	-	-	-	-	-	-	3.151
HB009 - FIREFIGHTER ACCESS Installation Cost	- / 4.134	- / 0.273	- / 0.421	- / -	- / -	- / -	- / 0.112	- / -	- / 0.119	- / -	- / -	- / 5.059
<b>Total Installation Cost</b>	- / 4.134	- / 0.273	- / 0.421	- / -	- / -	- / -	- / 0.112	- / -	- / 0.119	- / -	- / -	- / 5.059
<b>Total Cost (Procurement + Support + Installation)</b>	<b>6.890</b>	<b>0.668</b>	<b>0.421</b>	-	-	-	<b>0.112</b>	-	<b>0.119</b>	-	-	<b>8.210</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0910 - Firefighting Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - HB009 - FIREFIGHTER ACCESS

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: HB009 - FIREFIGHTER ACCESS**

Manufacturer Name: SELSTROM MAN	Manufacturer Location: PALATINE, IL
Administrative Leadtime ( <i>in Months</i> ): 0	Production Leadtime ( <i>in Months</i> ): 3

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Aug 2012						
Delivery Dates	Oct 2012						

**Installation: HB009 - FIREFIGHTER ACCESS**      **Method of Implementation: AIT**      **Installation Name: .HB009 FIREFIGHTER ACCESS**

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	42 / 4.134	3 / 0.273	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 4.407
FY 2012	- / -	- / -	4 / 0.421	- / -	- / -	- / -	1 / 0.112	- / -	1 / 0.119	- / -	- / -	6 / 0.652
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	42 / 4.134	3 / 0.273	4 / 0.421	- / -	- / -	- / -	1 / 0.112	- / -	1 / 0.119	- / -	- / -	51 / 5.059

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot	
		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	42	-	-	-	3	-	2	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	51
Out	42	-	-	-	3	-	2	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	51

**Footnotes:**  
<sup>(9)</sup> Hardware contract expires in FY12. In order to provide equipment commonality and avoid additional cost of a new procurement, FY 12 equipment is final procurement year with installations complete by FY 17.

**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0925 - Command and Control Switchboard

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	68.141	3.049	2.492	2.436	-	2.436	2.523	2.570	2.628	2.664	-	86.503
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	68.141	3.049	2.492	2.436	-	2.436	2.523	2.570	2.628	2.664	-	86.503
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>68.141</b>	<b>3.049</b>	<b>2.492</b>	<b>2.436</b>	<b>-</b>	<b>2.436</b>	<b>2.523</b>	<b>2.570</b>	<b>2.628</b>	<b>2.664</b>	<b>-</b>	<b>86.503</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

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.

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.

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 three to four (3 - 4) per ship, LSDs require two (2) 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.

Shipboard Air Traffic Control Communications (SATCC)

**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0925 - Command and Control Switchboard

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

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.

[P40A / GE003 ENG UPGRADES/MODS TO EQUIPMENT & TECH DOCUMENTATION]: Combat Systems & Interior Communication Switchboard Engineering and Modifications Upgrades to Equipment, Drawings, Technical Manuals (TMs) Allowance Parts Lists (APLs) and Allowance Equipage Lists (AELs). This line covers the costs to upgrade/modify existing equipment and associated technical documentation to implement and validate upgraded switching configurations essential for the ships' switchboards to properly integrate all elements of the Combat System and Interior Communication interfaces. The upgraded engineering modification drives the procurement of hardware modification kits (i.e., ORDALTs & Field Changes). These engineering modifications are essential to the functional deployment of Battle Force Interoperability.

[P40A / GE009 SHIPBOARD AIR TRAFFIC CONTROL COMMUNICATIONS (SATCC)]: 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.

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
COMMAND AND CONTROL SWITCHBOARD	P40A				20.878			2.729			2.154			2.092			-			2.092
1 - COMMAND AND CONTROL ORDALT/FIELD CHANGE KITS	P3A				47.263			0.320			0.338			0.344			-			0.344
<b>Total Gross/Weapon System Cost</b>					<b>68.141</b>			<b>3.049</b>			<b>2.492</b>			<b>2.436</b>			<b>-</b>			<b>2.436</b>

Item Schedule		ID CD	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
COMMAND AND CONTROL SWITCHBOARD	P40A				-			-			-			-			-			-
1 - COMMAND AND CONTROL ORDALT/FIELD CHANGE KITS	P3A				0.475			0.511			0.595			0.560			-			50.406
<b>Total Gross/Weapon System Cost</b>					<b>2.523</b>			<b>2.570</b>			<b>2.628</b>			<b>2.664</b>			<b>-</b>			<b>86.503</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

**UNCLASSIFIED**

**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0925 - Command and Control Switchboard

**Aggregated Item Name:**  
COMMAND AND CONTROL  
SWITCHBOARD

Items	ID CD	MDAP/ MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)															
<b>1) GE003 ENG UPGRADES/MODS TO EQUIPMENT &amp; TECH DOCUMENTATION (1)</b>																				
1.1) ENGINEERING UPGRADES/MODS TO EQUIPMENT & TECHNICAL DOCUMENTATION	A		-	-	11.915	-	-	1.332	-	-	1.362	-	-	2.092	-	-	-	-	-	2.092
<i>Subtotal 1) GE003 ENG UPGRADES/MODS TO EQUIPMENT &amp; TECH DOCUMENTATION</i>					11.915			1.332			1.362			2.092			-			2.092
<b>2) GE009 SHIPBOARD AIR TRAFFIC CONTROL COMMUNICATIONS (SATCC) (2)</b>																				
2.1) SHIPBOARD AIR TRAFFIC CONTROL COMMUNICATIONS (SATCC)	A		-	-	8.963	-	-	1.397	-	-	0.792	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) GE009 SHIPBOARD AIR TRAFFIC CONTROL COMMUNICATIONS (SATCC)</i>					8.963			1.397			0.792			-			-			-
<b>Total</b>					<b>20.878</b>			<b>2.729</b>			<b>2.154</b>			<b>2.092</b>			<b>-</b>			<b>2.092</b>

**UNCLASSIFIED**

**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0925 - Command and Control Switchboard

**Aggregated Item Name:**  
COMMAND AND CONTROL  
SWITCHBOARD

Items	ID CD	MDAP/ MAIS Code	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)															
<b>1) GE003 ENG UPGRADES/MODS TO EQUIPMENT &amp; TECH DOCUMENTATION (1)</b>																				
1.1) ENGINEERING UPGRADES/MODS TO EQUIPMENT & TECHNICAL DOCUMENTATION	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 1) GE003 ENG UPGRADES/MODS TO EQUIPMENT &amp; TECH DOCUMENTATION</i>					-			-			-			-			-			-
<b>2) GE009 SHIPBOARD AIR TRAFFIC CONTROL COMMUNICATIONS (SATCC) (2)</b>																				
2.1) SHIPBOARD AIR TRAFFIC CONTROL COMMUNICATIONS (SATCC)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) GE009 SHIPBOARD AIR TRAFFIC CONTROL COMMUNICATIONS (SATCC)</i>					-			-			-			-			-			-
<b>Total</b>					-			-			-			-			-			-

**Footnotes:**

- (1)
- (2)

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0925 - Command and Control Switchboard	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - COMMAND AND CONTROL ORDALT/FIELD CHANGE KITS

**Models of Systems Affected:** [No Model Specified]      **Type Modification:** [No Modification Type Specified]      **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	47.263	0.320	0.338	0.344	-	0.344	0.475	0.511	0.595	0.560	-	50.406
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	47.263	0.320	0.338	0.344	-	0.344	0.475	0.511	0.595	0.560	-	50.406
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>47.263</b>	<b>0.320</b>	<b>0.338</b>	<b>0.344</b>	<b>-</b>	<b>0.344</b>	<b>0.475</b>	<b>0.511</b>	<b>0.595</b>	<b>0.560</b>	<b>-</b>	<b>50.406</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Combat Systems & Interior Communication Switchboard Engineering and Modifications Upgrades to Equipment, Drawings, Technical Manuals (TMs) Allowance Parts Lists (APLs) and Allowance Equipage Lists (AELs). This line covers the costs to upgrade/modify existing equipment and associated technical documentation to implement and validate upgraded switching configurations essential for the ships' switchboards to properly integrate all elements of the Combat System and Interior Communication interfaces. The upgraded engineering modification drives the procurement of hardware modification kits (i.e., ORDALTs & Field Changes). These engineering modifications are essential to the functional deployment of Battle Force Interoperability.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0925 - Command and Control Switchboard	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - COMMAND AND CONTROL ORDALT/FIELD CHANGE KITS

**Models of Systems Affected:** [No Model Specified]      **Type Modification:** [No Modification Type Specified]      **Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
COMMAND AND CONTROL ORDALT/FIELD CHANGE KITS												
B Kits												
Recurring												
1.1.1 Ordalt/Field Change Kits - NonOrganic <sup>(3)</sup>	69 / 47.263	12 / 0.320	13 / 0.338	15 / 0.344	- / -	15 / 0.344	15 / 0.475	17 / 0.511	16 / 0.595	14 / 0.560	- / -	171 / 50.406
Subtotal Recurring	69 / 47.263	12 / 0.320	13 / 0.338	15 / 0.344	- / -	15 / 0.344	15 / 0.475	17 / 0.511	16 / 0.595	14 / 0.560	- / -	171 / 50.406
Total, COMMAND AND CONTROL ORDALT/FIELD CHANGE KITS	69 / 47.263	12 / 0.320	13 / 0.338	15 / 0.344	- / -	15 / 0.344	15 / 0.475	17 / 0.511	16 / 0.595	14 / 0.560	- / -	171 / 50.406
Total Procurement, All Modifications	69 / 47.263	12 / 0.320	13 / 0.338	15 / 0.344	- / -	15 / 0.344	15 / 0.475	17 / 0.511	16 / 0.595	14 / 0.560	- / -	171 / 50.406
Total Procurement and Support	47.263	0.320	0.338	0.344	-	0.344	0.475	0.511	0.595	0.560	-	50.406
COMMAND AND CONTROL ORDALT/FIELD CHANGE KITS Installation Cost	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total Installation Cost	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total Cost (Procurement + Support + Installation)</b>	<b>47.263</b>	<b>0.320</b>	<b>0.338</b>	<b>0.344</b>	<b>-</b>	<b>0.344</b>	<b>0.475</b>	<b>0.511</b>	<b>0.595</b>	<b>0.560</b>	<b>-</b>	<b>50.406</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0925 - Command and Control Switchboard	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - COMMAND AND CONTROL ORDALT/FIELD CHANGE KITS

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: COMMAND AND CONTROL ORDALT/FIELD CHANGE KITS**

Manufacturer Name: CACI	Manufacturer Location: OXNARD, CA
Administrative Leadtime ( <i>in Months</i> ): 0	Production Leadtime ( <i>in Months</i> ): 1

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Feb 2012						
Delivery Dates	Mar 2012						

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime ( <i>in Months</i> ): 0	Production Leadtime ( <i>in Months</i> ): 1

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates		Nov 2012	Dec 2013	Dec 2014	Dec 2015		
Delivery Dates		Dec 2012	Jan 2014	Jan 2015	Jan 2016		

<b>Installation:</b> COMMAND AND CONTROL ORDALT/FIELD CHANGE KITS	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> Ordalt/Field Change Kits
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	69 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	69 / 0.000
FY 2012	- / -	12 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / -
FY 2013	- / -	- / -	13 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / -
FY 2014	- / -	- / -	- / -	15 / -	- / -	15 / -	- / -	- / -	- / -	- / -	- / -	15 / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	15 / -	- / -	- / -	- / -	- / -	15 / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / -	- / -	- / -	- / -	17 / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / -	- / -	- / -	16 / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / -	- / -	14 / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	69 / 0.000	12 / -	13 / -	15 / -	- / -	15 / -	15 / -	17 / -	16 / -	14 / -	- / -	171 / -

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0925 - Command and Control Switchboard	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - COMMAND AND CONTROL ORDALT/FIELD CHANGE KITS

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> COMMAND AND CONTROL ORDALT/FIELD CHANGE KITS	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> Ordalt/Field Change Kits
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<b>Installation Schedule</b>																															
	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	69	-	4	3	5	2	3	5	3	-	5	5	5	-	5	5	5	-	3	5	9	2	6	4	4	-	4	3	7	-	171
Out	69	-	4	3	5	2	3	5	3	-	5	5	5	-	5	5	5	-	3	5	9	2	6	4	4	-	4	3	7	-	171

**Footnotes:**  
<sup>(3)</sup> FY 12 funding is 12 total units as follows: 3 LSD-class (6 total units), 1 LPD-class (1 unit), 1 CG-class (3 units) and 1 DDG-class (2 units). FY 13 funding is for 13 total units as follows: 2 LHD-class (6 total units), 2 DDG-class (4 units) and 1 MCM-class (3 units).

**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0933 - LHA/LHD Midlife

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	-	-	12.700	-	12.700	28.000	32.309	24.000	24.200	6.470	127.679
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	-	-	12.700	-	12.700	28.000	32.309	24.000	24.200	6.470	127.679
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>12.700</b>	<b>-</b>	<b>12.700</b>	<b>28.000</b>	<b>32.309</b>	<b>24.000</b>	<b>24.200</b>	<b>6.470</b>	<b>127.679</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Funding provides for the procurement of High Efficiency Small-Capacity (HES-C) Air Conditioning Compressors and Power Management Platform (PMP) for the LHD Midlife Program. HES-C provides additional air conditioning capability to support growing electronic cooling requirements. PMP manages the generation and distribution of electric power aboard the ships.

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1 - KK001 - LHD Midlife, Power Management Platform (PMP)	P3A				0.000			-			-			6.350			-			6.350
2 - KK001 - LHD Midlife HVAC IMPROVEMENTS (HESC)	P3A				0.000			-			-			6.350			-			6.350
<b>Total Gross/Weapon System Cost</b>					<b>0.000</b>			<b>-</b>			<b>-</b>			<b>12.700</b>			<b>-</b>			<b>12.700</b>



**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0933 - LHA/LHD Midlife	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - KK001 - LHD Midlife, Power Management Platform (PMP)

**Models of Systems Affected:** LHD Midlife PMP      **Type Modification:** [No Modification Type Specified]      **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	-	6.350	-	6.350	14.762	17.210	13.005	13.205	3.890	68.422
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	-	6.350	-	6.350	14.762	17.210	13.005	13.205	3.890	68.422
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>0.000</b>	-	-	<b>6.350</b>	-	<b>6.350</b>	<b>14.762</b>	<b>17.210</b>	<b>13.005</b>	<b>13.205</b>	<b>3.890</b>	<b>68.422</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

This ship alteration improves the reliability, visibility, and control of the LHD 1 Class ships power system.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0933 - LHA/LHD Midlife	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - KK001 - LHD Midlife, Power Management Platform (PMP)

<b>Models of Systems Affected:</b> LHD Midlife PMP	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
KK001 - LHD Midlife, Power Management Platform (PMP)												
B Kits												
Recurring												
1.1.1 Power Management Platform (PMP) - NonOrganic <sup>(1)</sup>	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.774	1 / 5.450	1 / 5.450	1 / 5.450	- / -	4 / 22.124
<b>Subtotal Recurring</b>	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.774	1 / 5.450	1 / 5.450	1 / 5.450	- / -	4 / 22.124
<b>Total, KK001 - LHD Midlife, Power Management Platform (PMP)</b>	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.774	1 / 5.450	1 / 5.450	1 / 5.450	- / -	4 / 22.124
<b>Total Procurement, All Modifications</b>	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.774	1 / 5.450	1 / 5.450	1 / 5.450	- / -	4 / 22.124
<b>Total Procurement and Support</b>	-	-	-	-	-	-	5.774	5.450	5.450	5.450	-	22.124
KK001 - LHD Midlife, Power Management Platform (PMP) Installation Cost	- / 0.000	- / -	- / -	- / 6.350	- / -	- / 6.350	- / 8.988	- / 11.760	- / 7.555	- / 7.755	- / 3.890	- / 46.298
<b>Total Installation Cost</b>	- / 0.000	- / -	- / -	- / 6.350	- / -	- / 6.350	- / 8.988	- / 11.760	- / 7.555	- / 7.755	- / 3.890	- / 46.298
<b>Total Cost (Procurement + Support + Installation)</b>	0.000	-	-	6.350	-	6.350	14.762	17.210	13.005	13.205	3.890	68.422

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0933 - LHA/LHD Midlife	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - KK001 - LHD Midlife, Power Management Platform (PMP)

<b>Models of Systems Affected:</b> LHD Midlife PMP	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information:** KK001 - LHD Midlife, Power Management Platform (PMP)

Manufacturer Name: NAVSSES	Manufacturer Location: TBD
Administrative Leadtime ( <i>in Months</i> ): 3	Production Leadtime ( <i>in Months</i> ): 12

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates							
Delivery Dates							

**Installation:** KK001 - LHD Midlife, Power Management Platform (PMP)      **Method of Implementation:** AIT      **Installation Name:** Power Management Platform (PMP)

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / 6.350	- / -	- / 6.350	- / -	1 / 3.890	- / -	- / -	- / -	1 / 10.240
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.988	- / -	1 / 3.890	- / -	- / -	1 / 12.878
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.870	- / -	1 / 3.890	- / -	1 / 11.760
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.665	- / 3.865	1 / 3.890	1 / 11.420
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / 6.350	- / -	- / 6.350	- / 8.988	1 / 11.760	1 / 7.555	1 / 7.755	1 / 3.890	4 / 46.298

**Installation Schedule**

APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
	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	-	-	-	1	-	-	-	1	-	-	-	-	1	4
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	1	-	4

**Footnotes:**  
<sup>(1)</sup> FY14 installation funds are required for installation non-recurring engineering, software development and shipchecks required in advance of the ship availability start in 1Q16.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0933 - LHA/LHD Midlife	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - KK001 - LHD Midlife HVAC IMPROVEMENTS (HESC)

**Models of Systems Affected:** LHD Midlife HVAC      **Type Modification:** [No Modification Type Specified]      **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	-	6.350	-	6.350	13.238	15.099	10.995	10.995	2.580	59.257
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	-	6.350	-	6.350	13.238	15.099	10.995	10.995	2.580	59.257
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	-	-	<b>6.350</b>	-	<b>6.350</b>	<b>13.238</b>	<b>15.099</b>	<b>10.995</b>	<b>10.995</b>	<b>2.580</b>	<b>59.257</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

This ship alteration improves the HVAC capability for the LHD's as part of the LHD midlife.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0933 - LHA/LHD Midlife	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - KK001 - LHD Midlife HVAC IMPROVEMENTS (HESC)

<b>Models of Systems Affected:</b> LHD Midlife HVAC	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
KK001 - LHD Midlife HVAC IMPROVEMENTS (HESC)												
B Kits												
Recurring												
1.1.1) HVAC IMPROVEMENTS (HESC) - NonOrganic (2)	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.650	1 / 5.650	1 / 5.650	1 / 5.650	- / -	4 / 22.600
<i>Subtotal Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.650	1 / 5.650	1 / 5.650	1 / 5.650	- / -	4 / 22.600
<i>Total, KK001 - LHD Midlife HVAC IMPROVEMENTS (HESC)</i>	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.650	1 / 5.650	1 / 5.650	1 / 5.650	- / -	4 / 22.600
<i>Total Procurement, All Modifications</i>	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.650	1 / 5.650	1 / 5.650	1 / 5.650	- / -	4 / 22.600
<i>Total Procurement and Support</i>	-	-	-	-	-	-	5.650	5.650	5.650	5.650	-	22.600
KK001 - LHD Midlife HVAC IMPROVEMENTS (HESC) Installation Cost	- / 0.000	- / -	- / -	- / 6.350	- / -	- / 6.350	- / 7.588	- / 9.449	- / 5.345	- / 5.345	- / 2.580	- / 36.657
<i>Total Installation Cost</i>	- / 0.000	- / -	- / -	- / 6.350	- / -	- / 6.350	- / 7.588	- / 9.449	- / 5.345	- / 5.345	- / 2.580	- / 36.657
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	-	-	<b>6.350</b>	-	<b>6.350</b>	<b>13.238</b>	<b>15.099</b>	<b>10.995</b>	<b>10.995</b>	<b>2.580</b>	<b>59.257</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0933 - LHA/LHD Midlife	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - KK001 - LHD Midlife HVAC IMPROVEMENTS (HESC)

<b>Models of Systems Affected:</b> LHD Midlife HVAC	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information:</b> KK001 - LHD Midlife HVAC IMPROVEMENTS (HESC)
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Manufacturer Name: NAVSSES	Manufacturer Location: TBD
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Administrative Leadtime ( <i>in Months</i> ): 3	Production Leadtime ( <i>in Months</i> ): 12
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Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates							
Delivery Dates							

<b>Installation:</b> KK001 - LHD Midlife HVAC IMPROVEMENTS (HESC)	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> HVAC IMPROVEMENTS (HESC)
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / 6.350	- / -	- / 6.350	- / -	1 / 2.580	- / -	- / -	- / -	1 / 8.930
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.588	- / -	1 / 2.580	- / -	- / -	1 / 10.168
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.869	- / -	1 / 2.580	- / -	1 / 9.449
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.765	- / 2.765	1 / 2.580	1 / 8.110
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / 6.350	- / -	- / 6.350	- / 7.588	1 / 9.449	1 / 5.345	1 / 5.345	1 / 2.580	4 / 36.657

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot					
		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	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	4	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	1	4

**Footnotes:**

(2) FY14 installation funds are required for installation non-recurring engineering and shipchecks in advance of the FY16 ship availability start in 1Q16.

**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0934 - LCC 19/20 Extended Service Life Program

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	-	-	40.329	-	40.329	30.667	17.737	2.430	2.552	-	93.715
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	-	-	40.329	-	40.329	30.667	17.737	2.430	2.552	-	93.715
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>40.329</b>	<b>-</b>	<b>40.329</b>	<b>30.667</b>	<b>17.737</b>	<b>2.430</b>	<b>2.552</b>	<b>-</b>	<b>93.715</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

**LCC EXTENDED SERVICE LIFE PROGRAM**

Funds provide for the procurement and installation of equipment in support of LCC 19 Class Extended Service Life Program extending this class to a 2039 service life. Funds specifically provided for LCC electrical improvements, including new ship service diesel generators (SSDGs), switchboards, and brushless ship service turbine generators (SSTGs), VS-50 Oil Water Separator for environmental protection, qualified propulsion shaft, and new air search radar to replace obsolete SPS-40 radar.

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
LCC 19/20 Extended Service Life Program	P40A, P5A				-			-						3.279			-			3.279
1 - MB001 - LCC19 Ship Electrical Improvements	P3A				0.000			-						6.750			-			6.750
2 - MB001 - LCC19 VS-50+Oil Water Separator.	P3A				0.000			-						1.800			-			1.800
4 - MB001 - LCC20 Electrical Improvements.	P3A				0.000			-						13.500			-			13.500

**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0934 - LCC 19/20 Extended Service Life Program

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
5 - MB001 - LCC20 Propulsion Items	P3A				0.000			-			-			-			-			-
3 - MB001 - LCC 19 Air Search Radar	P3A				0.000			-			-			15.000			-			15.000
6 - MB001 - LCC20 Safety Upgrades	P3A				0.000			-			-			-			-			-
<b>Total Gross/Weapon System Cost</b>					<b>0.000</b>			<b>-</b>			<b>-</b>			<b>40.329</b>			<b>-</b>			<b>40.329</b>

Item Schedule		ID CD	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
LCC 19/20 Extended Service Life Program	P40A, P5A				-			-			-			-			-			-
1 - MB001 - LCC19 Ship Electrical Improvements	P3A				14.850			8.650			-			-			-			30.250
2 - MB001 - LCC19 VS-50+Oil Water Separator.	P3A				4.500			-			-			-			-			6.300
4 - MB001 - LCC20 Electrical Improvements.	P3A				5.541			2.887			-			-			-			21.928
5 - MB001 - LCC20 Propulsion Items	P3A				3.396			1.800			2.095			1.800			-			9.091
3 - MB001 - LCC 19 Air Search Radar	P3A				2.000			4.000			-			-			-			21.000
6 - MB001 - LCC20 Safety Upgrades	P3A				0.380			0.400			0.335			0.752			-			1.867
<b>Total Gross/Weapon System Cost</b>					<b>30.667</b>			<b>17.737</b>			<b>2.430</b>			<b>2.552</b>			<b>-</b>			<b>93.715</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

**UNCLASSIFIED**

<b>Exhibit P-40A, Budget Item Justification For Aggregated Items:</b> PB 2014 Navy															<b>Date:</b> April 2013					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment					<b>P-1 Line Item Nomenclature:</b> 0934 - LCC 19/20 Extended Service Life Program					<b>Aggregated Item Name:</b> LCC 19/20 Extended Service Life Program										
Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) LCC 20 Propulsion Main Shaft</b>																				
† 1.1) LCC 20 Propulsion Main Shaft Battle Spare <sup>(1)</sup>	A		-	-	-	-	-	-	-	-	-	3,279K	1	3,279	-	-	-	3,279K	1	3,279
<b>Total</b>					-			-						3,279			-			3,279

**UNCLASSIFIED**

**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0934 - LCC 19/20 Extended Service Life Program	<b>Aggregated Item Name:</b> LCC 19/20 Extended Service Life Program
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Items († indicates the presence of a P-5A)	ID CD	MDAP/ MAIS Code	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) LCC 20 Propulsion Main Shaft</b>																				
† 1.1) LCC 20 Propulsion Main Shaft Battle Spare <sup>(1)</sup>	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>					-			-			-			-			-			-

**Footnotes:**  
<sup>(1)</sup> Procures Main Shaft Battle Spare for rotatable repair pool.

**UNCLASSIFIED**

<b>Exhibit P-5A, Budget Procurement History and Planning:</b> PB 2014 Navy										<b>Date:</b> April 2013		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment				<b>P-1 Line Item Nomenclature:</b> 0934 - LCC 19/20 Extended Service Life Program				<b>Aggregated Item Name:</b> LCC 19/20 Extended Service Life Program				
Items	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
1) LCC 20 Propulsion Main Shaft												
1.1) LCC 20 Propulsion Main Shaft Battle Spare		2014	TBD / TBD	C / TBD	NSWC/Phil	Dec 2013	Dec 2016	1	3,279K	N		

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0934 - LCC 19/20 Extended Service Life Program	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - MB001 - LCC19 Ship Electrical Improvements

<b>Models of Systems Affected:</b> LCC19 Ship Electrical Improvements	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	-	6.750	-	6.750	14.850	8.650	-	-	-	30.250
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	-	6.750	-	6.750	14.850	8.650	-	-	-	30.250
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	-	-	<b>6.750</b>	-	<b>6.750</b>	<b>14.850</b>	<b>8.650</b>	-	-	-	<b>30.250</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Procurement and installation of upgrades to USS BLUE RIDGE (LCC 19) Electrical System in support of the Extended Service Life Program. Provides a ship set 1825KW Ship Service Emergency Diesel Generators (SS/EDGs), upgrade to existing Ship Service Diesel Generator Cooling System and upgrade of Ship Service Turbine Generators (SSTGs)

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0934 - LCC 19/20 Extended Service Life Program	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - MB001 - LCC19 Ship Electrical Improvements

<b>Models of Systems Affected:</b> LCC19 Ship Electrical Improvements	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
MB001 - LCC19 Ship Electrical Improvements												
B Kits												
Recurring												
1.1.1) Ship Electrical Improvements - NonOrganic <sup>(2)</sup>	- / -	- / -	- / -	1 / 6.000	- / -	1 / 6.000	2 / 12.650	- / -	- / -	- / -	- / -	3 / 18.650
<i>Subtotal Recurring</i>	- / -	- / -	- / -	1 / 6.000	- / -	1 / 6.000	2 / 12.650	- / -	- / -	- / -	- / -	3 / 18.650
<i>Total, MB001 - LCC19 Ship Electrical Improvements</i>	- / -	- / -	- / -	1 / 6.000	- / -	1 / 6.000	2 / 12.650	- / -	- / -	- / -	- / -	3 / 18.650
<b>Total Procurement, All Modifications</b>	- / -	- / -	- / -	1 / 6.000	- / -	1 / 6.000	2 / 12.650	- / -	- / -	- / -	- / -	3 / 18.650
<b>Total Procurement and Support</b>	-	-	-	6.000	-	6.000	12.650	-	-	-	-	18.650
MB001 - LCC19 Ship Electrical Improvements Installation Cost	- / 0.000	- / -	- / -	- / 0.750	- / -	- / 0.750	- / 2.200	- / 8.650	- / -	- / -	- / -	- / 11.600
<b>Total Installation Cost</b>	- / 0.000	- / -	- / -	- / 0.750	- / -	- / 0.750	- / 2.200	- / 8.650	- / -	- / -	- / -	- / 11.600
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	-	-	<b>6.750</b>	-	<b>6.750</b>	<b>14.850</b>	<b>8.650</b>	-	-	-	<b>30.250</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0934 - LCC 19/20 Extended Service Life Program	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - MB001 - LCC19 Ship Electrical Improvements

<b>Models of Systems Affected:</b> LCC19 Ship Electrical Improvements	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: MB001 - LCC19 Ship Electrical Improvements**

Manufacturer Name: TBD <sup>(3)</sup>				Manufacturer Location: TBD			
Administrative Leadtime ( <i>in Months</i> ): 8				Production Leadtime ( <i>in Months</i> ): 24			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates			May 2014				
Delivery Dates			May 2016				

**Installation: MB001 - LCC19 Ship Electrical Improvements**      **Method of Implementation: AIT**      **Installation Name: Ship Electrical Improvements**

	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / 0.750	- / -	- / 0.750	- / -	1 / 2.890	- / -	- / -	- / -	1 / 3.640
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.200	2 / 5.760	- / -	- / -	- / -	2 / 7.960
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	- / -	- / -	- / -	- / 0.750	- / -	- / 0.750	- / 2.200	3 / 8.650	- / -	- / -	- / -	3 / 11.600

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot				
		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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	3

**Footnotes:**  
<sup>(2)</sup> Procurement of the SS/EDG System (24 month PLT) is in FY14 with install in FY16. Procurement of the SSDG Cooling system (12 month PLT) is in FY15 with install in FY16. Procurement of the SSTG (12 month PLT) is in FY15 with install in FY16.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0934 - LCC 19/20 Extended Service Life Program	<b>Modification Nomenclature</b> <i>(Modification Number - Modification Title):</i> 1 - MB001 - LCC19 Ship Electrical Improvements
<b>Models of Systems Affected:</b> LCC19 Ship Electrical Improvements	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
<p><sup>(3)</sup> For SS/EDGs. Long Lead Time for shock and integration testing.</p>		

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0934 - LCC 19/20 Extended Service Life Program	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - MB001 - LCC19 VS-50+Oil Water Separator.

<b>Models of Systems Affected:</b> LCC19 VS-50+Oil Water Separator	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	-	1.800	-	1.800	4.500	-	-	-	-	6.300
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	-	1.800	-	1.800	4.500	-	-	-	-	6.300
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	-	-	<b>1.800</b>	-	<b>1.800</b>	<b>4.500</b>	-	-	-	-	<b>6.300</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Procurement and installation upgrade to USS BLUE RIDGE (LCC 19) Environmental System in support of the Extended Service Life Program. Provides procurement and installation of a VS-50+ Oil Water Separator System.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0934 - LCC 19/20 Extended Service Life Program	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - MB001 - LCC19 VS-50+Oil Water Separator.

<b>Models of Systems Affected:</b> LCC19 VS-50+Oil Water Separator	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
MB001 - LCC19 VS-50+Oil Water Separator.												
B Kits												
Recurring												
1.1.1) VS-50+Oil Water Separator - NonOrganic	- / -	- / -	- / -	1 / 1.300	- / -	1 / 1.300	- / -	- / -	- / -	- / -	- / -	1 / 1.300
<i>Subtotal Recurring</i>	- / -	- / -	- / -	1 / 1.300	- / -	1 / 1.300	- / -	- / -	- / -	- / -	- / -	1 / 1.300
<i>Total, MB001 - LCC19 VS-50+Oil Water Separator.</i>	- / -	- / -	- / -	1 / 1.300	- / -	1 / 1.300	- / -	- / -	- / -	- / -	- / -	1 / 1.300
<b>Total Procurement, All Modifications</b>	- / -	- / -	- / -	1 / 1.300	- / -	1 / 1.300	- / -	- / -	- / -	- / -	- / -	1 / 1.300
<b>Total Procurement and Support</b>	-	-	-	1.300	-	1.300	-	-	-	-	-	1.300
MB001 - LCC19 VS-50+Oil Water Separator. Installation Cost	- / 0.000	- / -	- / -	- / 0.500	- / -	- / 0.500	- / 4.500	- / -	- / -	- / -	- / -	- / 5.000
<b>Total Installation Cost</b>	- / 0.000	- / -	- / -	- / 0.500	- / -	- / 0.500	- / 4.500	- / -	- / -	- / -	- / -	- / 5.000
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	-	-	<b>1.800</b>	-	<b>1.800</b>	<b>4.500</b>	-	-	-	-	<b>6.300</b>



**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0934 - LCC 19/20 Extended Service Life Program	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - MB001 - LCC20 Electrical Improvements.

<b>Models of Systems Affected:</b> LCC20 Electrical Improvement	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	-	13.500	-	13.500	5.541	2.887	-	-	-	21.928
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	-	13.500	-	13.500	5.541	2.887	-	-	-	21.928
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	-	-	<b>13.500</b>	-	<b>13.500</b>	<b>5.541</b>	<b>2.887</b>	-	-	-	<b>21.928</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Procurement and installation of upgrade to USS MOUNT WHITNEY (LCC 20) Electrical Distribution System in support of the Extended Service Life Program. Procures and installs two Emergency Diesel Generators and Brushless generators.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0934 - LCC 19/20 Extended Service Life Program	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - MB001 - LCC20 Electrical Improvements.

<b>Models of Systems Affected:</b> LCC20 Electrical Improvement	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
MB001 - LCC20 Electrical Improvements.												
B Kits												
Recurring												
1.1.1) LCC20 Electrical Improvement - NonOrganic <sup>(4)</sup>	- / -	- / -	- / -	2 / 6.500	- / -	2 / 6.500	1 / 2.500	- / -	- / -	- / -	- / -	3 / 9.000
<i>Subtotal Recurring</i>	- / -	- / -	- / -	2 / 6.500	- / -	2 / 6.500	1 / 2.500	- / -	- / -	- / -	- / -	3 / 9.000
<i>Total, MB001 - LCC20 Electrical Improvements.</i>	- / -	- / -	- / -	2 / 6.500	- / -	2 / 6.500	1 / 2.500	- / -	- / -	- / -	- / -	3 / 9.000
<b>Total Procurement, All Modifications</b>	- / -	- / -	- / -	2 / 6.500	- / -	2 / 6.500	1 / 2.500	- / -	- / -	- / -	- / -	3 / 9.000
<b>Total Procurement and Support</b>	-	-	-	6.500	-	6.500	2.500	-	-	-	-	9.000
MB001 - LCC20 Electrical Improvements. Installation Cost	- / 0.000	- / -	- / -	- / 7.000	- / -	- / 7.000	- / 3.041	- / 2.887	- / -	- / -	- / -	- / 12.928
<b>Total Installation Cost</b>	- / 0.000	- / -	- / -	- / 7.000	- / -	- / 7.000	- / 3.041	- / 2.887	- / -	- / -	- / -	- / 12.928
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	-	-	<b>13.500</b>	-	<b>13.500</b>	<b>5.541</b>	<b>2.887</b>	-	-	-	<b>21.928</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0934 - LCC 19/20 Extended Service Life Program	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - MB001 - LCC20 Electrical Improvements.

<b>Models of Systems Affected:</b> LCC20 Electrical Improvement	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: MB001 - LCC20 Electrical Improvements.**

Manufacturer Name: TBD <sup>(5)</sup>				Manufacturer Location: TBD			
Administrative Leadtime ( <i>in Months</i> ): 2				Production Leadtime ( <i>in Months</i> ): 6			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates			Dec 2013				
Delivery Dates			May 2014				

**Installation: MB001 - LCC20 Electrical Improvements. Method of Implementation: AIT Installation Name: LCC20 Electrical Improvement**

<b>Installation Cost</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO</b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	1 / 7.000	- / -	1 / 7.000	1 / 2.541	- / -	- / -	- / -	- / -	2 / 9.541
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.500	1 / 2.887	- / -	- / -	- / -	1 / 3.387
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	- / -	- / -	- / -	1 / 7.000	- / -	1 / 7.000	1 / 3.041	1 / 2.887	- / -	- / -	- / -	3 / 12.928

**Installation Schedule**

	<b>APY</b>	<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>TC</b>	<b>Tot</b>					
		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>																															
In	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3

**Footnotes:**  
<sup>(4)</sup> Emergency Diesel Generators procured in FY14 require approximately 4 month land based government testing post delivery. Procurement of two Emergency Diesel Generators (6 month PLT) is in FY14 with install in FY14 and FY15. Procurement of Brushless Generators (6 month PLT) is in FY15 with install in FY16.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0934 - LCC 19/20 Extended Service Life Program	<b>Modification Nomenclature</b> <i>(Modification Number - Modification Title):</i> 4 - MB001 - LCC20 Electrical Improvements.
<b>Models of Systems Affected:</b> LCC20 Electrical Improvement	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
<p><sup>(5)</sup> Approximate 4 month land based government testing.</p>		

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment		<b>P-1 Line Item Nomenclature:</b> 0934 - LCC 19/20 Extended Service Life Program
		<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 5 - MB001 - LCC20 Propulsion Items

<b>Models of Systems Affected:</b> LCC20 Propulsion Items	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	-	-	-	-	3.396	1.800	2.095	1.800	-	9.091
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	-	-	-	-	3.396	1.800	2.095	1.800	-	9.091
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	-	-	-	-	-	<b>3.396</b>	<b>1.800</b>	<b>2.095</b>	<b>1.800</b>	-	<b>9.091</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Procurement and installation of upgrades to USS MOUNT WHITNEY (LCC 20) Propulsion and Piping System in support of the Extended Service Life Program. Procures Ship Service Turbine Generator (SSTG) conversion to brushless, and Steering systems.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0934 - LCC 19/20 Extended Service Life Program	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 5 - MB001 - LCC20 Propulsion Items

<b>Models of Systems Affected:</b> LCC20 Propulsion Items	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
MB001 - LCC20 Propulsion Items												
B Kits												
Recurring												
1.1.1) LCC20 Propulsion Items - NonOrganic <sup>(6)</sup>	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.986	- / -	1 / 1.946	- / -	- / -	2 / 4.932
<i>Subtotal Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.986	- / -	1 / 1.946	- / -	- / -	2 / 4.932
<i>Total, MB001 - LCC20 Propulsion Items</i>	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.986	- / -	1 / 1.946	- / -	- / -	2 / 4.932
<i>Total Procurement, All Modifications</i>	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.986	- / -	1 / 1.946	- / -	- / -	2 / 4.932
<i>Total Procurement and Support</i>	-	-	-	-	-	-	2.986	-	1.946	-	-	4.932
MB001 - LCC20 Propulsion Items Installation Cost	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.410	- / 1.800	- / 0.149	- / 1.800	- / -	- / 4.159
<i>Total Installation Cost</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.410	- / 1.800	- / 0.149	- / 1.800	- / -	- / 4.159
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	-	-	-	-	-	<b>3.396</b>	<b>1.800</b>	<b>2.095</b>	<b>1.800</b>	-	<b>9.091</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0934 - LCC 19/20 Extended Service Life Program	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 5 - MB001 - LCC20 Propulsion Items

<b>Models of Systems Affected:</b> LCC20 Propulsion Items	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information: MB001 - LCC20 Propulsion Items</b>							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime ( <i>in Months</i> ): 3				Production Leadtime ( <i>in Months</i> ): 12			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates							
Delivery Dates							

<b>Installation:</b> MB001 - LCC20 Propulsion Items	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> LCC20 Propulsion Items
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<b>Installation Cost</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO</b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
	<i>Qty (Each) / Total Cost (\$ M)</i>											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.410	1 / 1.800	- / -	- / -	- / -	1 / 2.210
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.149	1 / 1.800	- / -	1 / 1.949
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.410	1 / 1.800	- / 0.149	1 / 1.800	- / -	2 / 4.159

<b>Installation Schedule</b>																																	
	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot		
		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	-	-	-	-	-	-	1	-	-	-	-	-	-	2
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	2

**Footnotes:**  
<sup>(6)</sup> Procurement of Ship Service Turbine Generator (SSTG) in FY15 with install in FY16, and procurement of Steering system in FY17 with install in FY18.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0934 - LCC 19/20 Extended Service Life Program	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - MB001 - LCC 19 Air Search Radar

<b>Models of Systems Affected:</b> LCC 19 Air Search Radar	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	-	15.000	-	15.000	2.000	4.000	-	-	-	21.000
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	-	15.000	-	15.000	2.000	4.000	-	-	-	21.000
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	-	-	<b>15.000</b>	-	<b>15.000</b>	<b>2.000</b>	<b>4.000</b>	-	-	-	<b>21.000</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Procurement and installation of upgrade to USS BLUE RIDGE (LCC 19) combat system air search capability in support of the Extended Service Life Program. Provides procurement and installation of an air search radar.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0934 - LCC 19/20 Extended Service Life Program	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - MB001 - LCC 19 Air Search Radar

<b>Models of Systems Affected:</b> LCC 19 Air Search Radar	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
MB001 - LCC 19 Air Search Radar												
B Kits												
Recurring												
1.1.1) LCC 19 Air Search Radar - NonOrganic <sup>(7)</sup>	- / -	- / -	- / -	1 / 12.000	- / -	1 / 12.000	- / -	- / -	- / -	- / -	- / -	1 / 12.000
<i>Subtotal Recurring</i>	- / -	- / -	- / -	1 / 12.000	- / -	1 / 12.000	- / -	- / -	- / -	- / -	- / -	1 / 12.000
<i>Total, MB001 - LCC 19 Air Search Radar</i>	- / -	- / -	- / -	1 / 12.000	- / -	1 / 12.000	- / -	- / -	- / -	- / -	- / -	1 / 12.000
<i>Total Procurement, All Modifications</i>	- / -	- / -	- / -	1 / 12.000	- / -	1 / 12.000	- / -	- / -	- / -	- / -	- / -	1 / 12.000
<i>Total Procurement and Support</i>	-	-	-	12.000	-	12.000	-	-	-	-	-	12.000
MB001 - LCC 19 Air Search Radar Installation Cost	- / 0.000	- / -	- / -	- / 3.000	- / -	- / 3.000	- / 2.000	- / 4.000	- / -	- / -	- / -	- / 9.000
<i>Total Installation Cost</i>	- / 0.000	- / -	- / -	- / 3.000	- / -	- / 3.000	- / 2.000	- / 4.000	- / -	- / -	- / -	- / 9.000
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	-	-	<b>15.000</b>	-	<b>15.000</b>	<b>2.000</b>	<b>4.000</b>	-	-	-	<b>21.000</b>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0934 - LCC 19/20 Extended Service Life Program	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - MB001 - LCC 19 Air Search Radar

<b>Models of Systems Affected:</b> LCC 19 Air Search Radar	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information:</b> MB001 - LCC 19 Air Search Radar							
Manufacturer Name: TBD	Manufacturer Location: TBD						
Administrative Leadtime ( <i>in Months</i> ): 2	Production Leadtime ( <i>in Months</i> ): 30						
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates			Dec 2013				
Delivery Dates			May 2016				

<b>Installation:</b> MB001 - LCC 19 Air Search Radar	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> LCC 19 Air Search Radar
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<b>Installation Cost</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO</b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
	<i>Qty (Each) / Total Cost (\$ M)</i>											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / 3.000	- / -	- / 3.000	- / 2.000	1 / 4.000	- / -	- / -	- / -	1 / 9.000
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	- / -	- / -	- / -	- / 3.000	- / -	- / 3.000	- / 2.000	1 / 4.000	- / -	- / -	- / -	1 / 9.000

<b>Installation Schedule</b>																																	
	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot		
		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	-	-	-	-	-	-	-	-	-	-	-	-	1	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1

**Footnotes:**  
<sup>(7)</sup> FY14 installation funds support shipchecks, design integration and drawing development. These installation advance planning products must be completed by A-360 in support of detailed availability execution planning.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0934 - LCC 19/20 Extended Service Life Program	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 6 - MB001 - LCC20 Safety Upgrades

<b>Models of Systems Affected:</b> LCC20 Safety Upgrades	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	-	-	-	-	0.380	0.400	0.335	0.752	-	1.867
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	-	-	-	-	0.380	0.400	0.335	0.752	-	1.867
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	-	-	-	-	-	<b>0.380</b>	<b>0.400</b>	<b>0.335</b>	<b>0.752</b>	-	<b>1.867</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Procurement and installation of Safety upgrades to USS MOUNT WHITNEY (LCC 20) in support of the Extended Service Life Program. Procures upgrade of ship Ready Life Boat (RHIB) and Decontamination Stations and Hazardous Waste Disposal system.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy										<b>Date:</b> April 2013			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment					<b>P-1 Line Item Nomenclature:</b> 0934 - LCC 19/20 Extended Service Life Program					<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 6 - MB001 - LCC20 Safety Upgrades			
<b>Models of Systems Affected:</b> LCC20 Safety Upgrades				<b>Type Modification:</b> [No Modification Type Specified]				<b>Related RDT&amp;E PEs:</b>					

Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
MB001 - LCC20 Safety Upgrades												
B Kits												
Recurring												
1.1.1) LCC20 Safety Upgrades - NonOrganic <sup>(8)</sup>	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.380	- / -	1 / 0.335	- / -	- / -	2 / 0.715
<i>Subtotal Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.380	- / -	1 / 0.335	- / -	- / -	2 / 0.715
<i>Total, MB001 - LCC20 Safety Upgrades</i>	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.380	- / -	1 / 0.335	- / -	- / -	2 / 0.715
<i>Total Procurement, All Modifications</i>	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.380	- / -	1 / 0.335	- / -	- / -	2 / 0.715
<i>Total Procurement and Support</i>	-	-	-	-	-	-	0.380	-	0.335	-	-	0.715
MB001 - LCC20 Safety Upgrades Installation Cost	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.400	- / -	- / 0.752	- / -	- / 1.152
<i>Total Installation Cost</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.400	- / -	- / 0.752	- / -	- / 1.152
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	-	-	-	-	-	<b>0.380</b>	<b>0.400</b>	<b>0.335</b>	<b>0.752</b>	-	<b>1.867</b>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0934 - LCC 19/20 Extended Service Life Program	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 6 - MB001 - LCC20 Safety Upgrades

<b>Models of Systems Affected:</b> LCC20 Safety Upgrades	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information: MB001 - LCC20 Safety Upgrades</b>							
Manufacturer Name: TBD	Manufacturer Location: TBD						
Administrative Leadtime ( <i>in Months</i> ): 2	Production Leadtime ( <i>in Months</i> ): 12						
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates							
Delivery Dates							

<b>Installation:</b> MB001 - LCC20 Safety Upgrades	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> LCC20 Safety Upgrades
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<b>Installation Cost</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO</b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
	<i>Qty (Each) / Total Cost (\$ M)</i>											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.400	- / -	- / -	- / -	1 / 0.400
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.752	- / -	1 / 0.752
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.400	- / -	1 / 0.752	- / -	2 / 1.152

<b>Installation Schedule</b>																																		
	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot			
		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	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	2

**Footnotes:**  
<sup>(8)</sup> Procure Ready Life Boat (RHIB) in FY15 with installation in FY16. Procure Decontamination Station and Hazardous Waste Disposal System in FY17 with installation in FY18.

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**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0935 - Pollution Control Equipment

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	371.526	22.210	20.707	19.603	-	19.603	18.875	18.152	26.770	27.171	2.898	527.912
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	371.526	22.210	20.707	19.603	-	19.603	18.875	18.152	26.770	27.171	2.898	527.912
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>371.526</b>	<b>22.210</b>	<b>20.707</b>	<b>19.603</b>	<b>-</b>	<b>19.603</b>	<b>18.875</b>	<b>18.152</b>	<b>26.770</b>	<b>27.171</b>	<b>2.898</b>	<b>527.912</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	0.268	0.278	0.277	-	0.277	0.399	0.229	0.270	0.077	Continuing	Continuing
Flyaway Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

**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 deadlines. 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.

**SHORE BASED POLLUTION EQUIPMENT - (Logistics)**

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. The Supervisor of Salvage is assigned 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 are:

**[P40A / HF040 SUPPORT SYSTEMS]: HF040 - SUPPORT SYSTEMS**

These systems include those auxiliary systems required to keep the oil spill responders operating in the field. These systems include equipment required for command and control, communication, supply, personnel transfer craft, global positioning system (GPS) asset tracking, repair, towing, supply, offloading, deployment, firefighting, demobilization, and other ancillary requirements of a spill response.

**[P40A / HF051 OIL BOOM SYSTEMS]: HF051 - OIL BOOM SYSTEMS**

These systems consist of inflatable or hard oil booms of various sizes based on requirements and including all associated equipment required to store, inflate, deploy, recover, and repair the boom. Inflatable boom systems also include shoreline transition booms to cross the beach/breaker area. The systems are packaged in 8' x 8' x 20' shipping containers.

**[P40A / HF055 SALVAGE SUPPORT SYSTEMS]: HF055 - SALVAGE SUPPORT SYSTEMS**

**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0935 - Pollution Control Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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**MDAP/MAIS Code(s):**

These systems are a collection of small, special-purpose skimmers, dispersant spray systems, containment booms, shoreline transition booms, 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.

[P40A / HF056 EQUIPMENT CLEAN-UP SYSTEMS]: HF056 - EQUIPMENT CLEAN-UP SYSTEMS  
 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.

[P40A / HF057 OIL HANDLING SYSTEMS]: HF057 - OIL HANDLING SYSTEMS  
 Oil handling 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 including portable crane systems, bladder systems, incinerator systems, oil/water separator systems, steam generator systems, and other material transfer systems.

[P40A / HF062 LIGHTERING SYSTEMS]: HF062 - LIGHTERING SYSTEMS  
 These systems allow for lightering of oil from aboard ships whose transfer systems are inoperative. Various pump sizes and extraction tools selected can pump oil product in almost any emergency scenario. These pumping systems are designed to move large quantities of oil, including oil that has been weathered, emulsified, or mixed with other contaminants and become thick and viscous.

[P40A / HF063 VOSS SKIMMER SYSTEMS]: HF063 - VESSEL OF OPPORTUNITY (VOSS) SKIMMING SYSTEMS  
 The VOSS is a skimming system which can be used aboard any vessel with enough deck space to support the operating equipment. It allows skimming capability in situations where traditional skimmers may not be practicable, such as offshore or in extremely inclement weather.

[P40A / HF067 - RAPID DEPLOYMENT SKIMMER SYSTEMS]: These systems are ocean-going skimmer systems that are self propelled and used in conjunction with containment boom for mechanical recovery of oil on the water. They are designed to be rapidly transportable to the scene of a spill.

[P3A / HF024 CFC-114 (R-114) AC CONVERSION]: HF024 - CFC CONVERSION PROGRAM  
 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 5090.1C dated 30 OCT 2007 further requires to "reduce the use and emissions 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 completed FY 10, with the exception of two units that are planned for installation beyond FY 17. The CFC-114 conversion programs began in FY 99 and are expected to complete in FY 18. Inventory Objective for CFC-12 Refrigeration is 560, and the inventory objective for CFC-114 is 402. Total program cost is estimated at \$425M.

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Pollution Control Equipment	P40A, P5A				60.160			7.369			6.603			6.587			-			6.587

**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0935 - Pollution Control Equipment

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1 - HF024 CFC-114 (R-114) AC CONVERSION	P3A				287.506			13.983			14.104			13.016			-			13.016
2 - HF030 PLASTIC WASTE PROCESSORS	P3A				23.860			0.858			-			-			-			-
<b>Total Gross/Weapon System Cost</b>					<b>371.526</b>			<b>22.210</b>			<b>20.707</b>			<b>19.603</b>			<b>-</b>			<b>19.603</b>

Item Schedule		ID CD	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Pollution Control Equipment	P40A, P5A				-			-			-			-			-			-
1 - HF024 CFC-114 (R-114) AC CONVERSION	P3A				13.414			9.939			6.697			7.583			2.898			369.140
2 - HF030 PLASTIC WASTE PROCESSORS	P3A				-			-			-			-			-			24.718
<b>Total Gross/Weapon System Cost</b>					<b>18.875</b>			<b>18.152</b>			<b>26.770</b>			<b>27.171</b>			<b>2.898</b>			<b>527.912</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

**UNCLASSIFIED**

**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0935 - Pollution Control Equipment

**Aggregated Item Name:**  
Pollution Control Equipment

Items († indicates the presence of a P-5A)	ID CD	MDAP/ MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)															
<b>1) LOGISTICS</b>																				
† 1.1) HF040 SUPPORT SYSTEMS	A		257,300.00	30	7.719	466,666.67	3	1.400	310,625.00	8	2.485	261,125.00	8	2.089	-	-	-	261,125.00	8	2.089
† 1.2) HF051 OIL BOOM SYSTEMS	A		440,238.10	21	9.245	218,750.00	8	1.750	197,000.00	5	0.985	587,000.00	1	0.587	-	-	-	587,000.00	1	0.587
1.3) HF055 SALVAGE SUPPORT SYSTEMS	A		397,000.00	4	1.588	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.4) HF056 EQUIPMENT CLEAN- UP SYSTEMS	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.5) HF057 OIL HANDLING SYSTEMS	A		290,142.86	7	2.031	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 1.6) HF062 LIGHTERING SYSTEMS	A		201,500.00	6	1.209	422,000.00	1	0.422	426,000.00	1	0.426	430,000.00	1	0.430	-	-	-	430,000.00	1	0.430
† 1.7) HF063 VOSS SKIMMER SYSTEMS	A		279,375.00	8	2.235	587,000.00	1	0.587	346,000.00	1	0.346	349,000.00	1	0.349	-	-	-	349,000.00	1	0.349
1.8) HF067 - RAPID DEPLOYMENT SKIMMER SYSTEMS	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 1) LOGISTICS</i>					24.027			4.159			4.242			3.455			-			3.455
<b>2) EXPEDITIONARY WARFARE</b>																				
2.1) HF031 POLLUTION CONTROL EQUIPMENT FIELD CHANGES	A		-	-	5.271	-	-	1.767	-	-	0.294	-	-	1.694	-	-	-	-	-	1.694
2.2) HF830 PRODUCTION ENGINEERING	A		-	-	2.997	-	-	-	-	-	0.454	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) EXPEDITIONARY WARFARE</i>					8.268			1.767			0.748			1.694			-			1.694
<b>3) SURFACE WARFARE</b>																				
3.1) HF031 POLLUTION CONTROL EQUIPMENT FIELD CHANGES	A		-	-	20.436	-	-	0.472	-	-	-	-	-	-	-	-	-	-	-	-
3.2) HF830 PRODUCTION ENGINEERING	A		-	-	6.016	-	-	0.529	-	-	0.466	-	-	0.454	-	-	-	-	-	0.454
<i>Subtotal 3) SURFACE WARFARE</i>					26.452			1.001			0.466			0.454			-			0.454
<b>4) AIR WARFARE</b>																				

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**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0935 - Pollution Control Equipment

**Aggregated Item Name:**  
Pollution Control Equipment

Items († indicates the presence of a P-5A)	ID CD	MDAP/ MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)															
4.1) HF031 POLLUTION CONTROL EQUIPMENT FIELD CHANGES	A		-	-	1.413	-	-	0.442	-	-	1.147	-	-	0.984	-	-	-	-	-	0.984
<i>Subtotal 4) AIR WARFARE</i>					1.413			0.442			1.147			0.984			-			0.984
<b>Total</b>					<b>60.160</b>			<b>7.369</b>			<b>6.603</b>			<b>6.587</b>			<b>-</b>			<b>6.587</b>

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**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0935 - Pollution Control Equipment

**Aggregated Item Name:**  
Pollution Control Equipment

Items († indicates the presence of a P-5A)	ID CD	MDAP/ MAIS Code	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) LOGISTICS</b>																				
† 1.1) HF040 SUPPORT SYSTEMS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 1.2) HF051 OIL BOOM SYSTEMS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3) HF055 SALVAGE SUPPORT SYSTEMS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.4) HF056 EQUIPMENT CLEAN-UP SYSTEMS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.5) HF057 OIL HANDLING SYSTEMS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 1.6) HF062 LIGHTERING SYSTEMS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 1.7) HF063 VOSS SKIMMER SYSTEMS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.8) HF067 - RAPID DEPLOYMENT SKIMMER SYSTEMS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 1) LOGISTICS</i>					-			-			-			-			-			-
<b>2) EXPEDITIONARY WARFARE</b>																				
2.1) HF031 POLLUTION CONTROL EQUIPMENT FIELD CHANGES	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.2) HF830 PRODUCTION ENGINEERING	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) EXPEDITIONARY WARFARE</i>					-			-			-			-			-			-
<b>3) SURFACE WARFARE</b>																				
3.1) HF031 POLLUTION CONTROL EQUIPMENT FIELD CHANGES	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.2) HF830 PRODUCTION ENGINEERING	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 3) SURFACE WARFARE</i>					-			-			-			-			-			-
<b>4) AIR WARFARE</b>																				

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**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0935 - Pollution Control Equipment	<b>Aggregated Item Name:</b> Pollution Control Equipment
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Items († indicates the presence of a P-5A)	ID CD	MDAP/ MAIS Code	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
4.1) HF031 POLLUTION CONTROL EQUIPMENT FIELD CHANGES	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 4) AIR WARFARE</i>					-					-										-
<b>Total</b>					-					-										-

**UNCLASSIFIED**

**Exhibit P-5A, Budget Procurement History and Planning:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0935 - Pollution Control Equipment	<b>Aggregated Item Name:</b> Pollution Control Equipment
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Items	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>1) LOGISTICS</b>												
1.1) HF040 SUPPORT SYSTEMS		2012	TBD / TBD	TBD	WASHINGTON, DC	Apr 2013	Oct 2013	3	466,666.67	Y		
1.1) HF040 SUPPORT SYSTEMS		2013	TBD / TBD	TBD	WASHINGTON, DC	Apr 2013	Oct 2013	8	310,625.00	Y		
1.1) HF040 SUPPORT SYSTEMS		2014	TBD / TBD	TBD	WASHINGTON, DC	Apr 2014	Apr 2014	8	261,125.00	Y		
1.2) HF051 OIL BOOM SYSTEMS		2012	GPC / VA	C / CPAF	WASHINGTON, DC	Sep 2012	Mar 2013	8	218,750.00	Y		
1.2) HF051 OIL BOOM SYSTEMS		2013	TBD / TBD	TBD	WASHINGTON, DC	Jun 2013	Dec 2013	5	197,000.00	Y		
1.2) HF051 OIL BOOM SYSTEMS		2014	TBD / TBD	TBD	WASHINGTON, DC	Apr 2014	Apr 2014	1	587,000.00	Y		
1.6) HF062 LIGHTERING SYSTEMS		2012	GPC / VA	C / CPAF	WASHINGTON, DC	Dec 2012	Jun 2013	1	422,000.00	Y		
1.6) HF062 LIGHTERING SYSTEMS		2013	TBD / TBD	TBD	WASHINGTON, DC	Jun 2013	Dec 2013	1	426,000.00	Y		
1.6) HF062 LIGHTERING SYSTEMS		2014	TBD / TBD	C / TBD	WASHINGTON, DC	Apr 2014	Apr 2014	1	430,000.00	Y		
1.7) HF063 VOSS SKIMMER SYSTEMS		2012	GPC / VA	C / CPAF	WASHINGTON, DC	Nov 2012	May 2013	1	587,000.00	Y		
1.7) HF063 VOSS SKIMMER SYSTEMS		2013	TBD / TBD	C / CPAF	WASHINGTON, DC	Jun 2013	Dec 2013	1	346,000.00	Y		
1.7) HF063 VOSS SKIMMER SYSTEMS		2014	TBD / TBD	C / CPAF	WASHINGTON, DC	Apr 2014	Apr 2014	1	349,000.00	Y		

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0935 - Pollution Control Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - HF024 CFC-114 (R-114) AC CONVERSION

**Models of Systems Affected:** [No Model Specified]      **Type Modification:** [No Modification Type Specified]      **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	287.506	13.983	14.104	13.016	-	13.016	13.414	9.939	6.697	7.583	2.898	369.140
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	287.506	13.983	14.104	13.016	-	13.016	13.414	9.939	6.697	7.583	2.898	369.140
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>287.506</b>	<b>13.983</b>	<b>14.104</b>	<b>13.016</b>	<b>-</b>	<b>13.016</b>	<b>13.414</b>	<b>9.939</b>	<b>6.697</b>	<b>7.583</b>	<b>2.898</b>	<b>369.140</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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-114 conversion programs began in FY 99 and are expected to complete in FY 18. Inventory Objective for CFC-12 Refrigeration is 560, and the inventory objective for CFC-114 is 402.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0935 - Pollution Control Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - HF024 CFC-114 (R-114) AC CONVERSION

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
HF024 CFC-114 (R-114) AC CONVERSION												
B Kits												
Recurring												
1.1.1) HF024 CFC-114 (R-114) AC CONVERSION - NonOrganic	344 / 127.313	10 / 5.789	13 / 9.195	8 / 4.740	- / -	8 / 4.740	11 / 7.340	6 / 3.998	4 / 2.811	6 / 4.228	- / -	402 / 165.414
<i>Subtotal Recurring</i>	344 / 127.313	10 / 5.789	13 / 9.195	8 / 4.740	- / -	8 / 4.740	11 / 7.340	6 / 3.998	4 / 2.811	6 / 4.228	- / -	402 / 165.414
<i>Total, HF024 CFC-114 (R-114) AC CONVERSION</i>	344 / 127.313	10 / 5.789	13 / 9.195	8 / 4.740	- / -	8 / 4.740	11 / 7.340	6 / 3.998	4 / 2.811	6 / 4.228	- / -	402 / 165.414
<i>Total Procurement, All Modifications</i>	344 / 127.313	10 / 5.789	13 / 9.195	8 / 4.740	- / -	8 / 4.740	11 / 7.340	6 / 3.998	4 / 2.811	6 / 4.228	- / -	402 / 165.414
<i>Total Procurement and Support</i>	127.313	5.789	9.195	4.740	-	4.740	7.340	3.998	2.811	4.228	-	165.414
HF024 CFC-114 (R-114) AC CONVERSION Installation Cost	- / 160.193	- / 8.194	- / 4.909	- / 8.276	- / -	- / 8.276	- / 6.074	- / 5.941	- / 3.886	- / 3.355	- / 2.898	- / 203.726
<i>Total Installation Cost</i>	- / 160.193	- / 8.194	- / 4.909	- / 8.276	- / -	- / 8.276	- / 6.074	- / 5.941	- / 3.886	- / 3.355	- / 2.898	- / 203.726
<b>Total Cost (Procurement + Support + Installation)</b>	<b>287.506</b>	<b>13.983</b>	<b>14.104</b>	<b>13.016</b>	<b>-</b>	<b>13.016</b>	<b>13.414</b>	<b>9.939</b>	<b>6.697</b>	<b>7.583</b>	<b>2.898</b>	<b>369.140</b>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0935 - Pollution Control Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - HF024 CFC-114 (R-114) AC CONVERSION

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: HF024 CFC-114 (R-114) AC CONVERSION**

Manufacturer Name: YORK INTERNATIONAL	Manufacturer Location: PA
Administrative Leadtime ( <i>in Months</i> ): 2	Production Leadtime ( <i>in Months</i> ): 12

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Jan 2011	Apr 2012	Jan 2013	Jan 2014	Jan 2015	Jan 2016	Jan 2017
Delivery Dates	Jan 2012	Apr 2013	Jan 2014	Jan 2015	Jan 2016	Jan 2017	Jan 2018

**Installation: HF024 CFC-114 (R-114) AC CONVERSION**      **Method of Implementation: AIT**      **Installation Name: HF024 CFC-114 (R-114) AC CONVERSION**

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	332 / 160.193	12 / 8.194	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	344 / 168.387
FY 2012	- / -	- / -	8 / 4.909	2 / 1.278	- / -	2 / 1.278	- / -	- / -	- / -	- / -	- / -	10 / 6.187
FY 2013	- / -	- / -	- / -	11 / 6.998	- / -	11 / 6.998	2 / 1.207	- / -	- / -	- / -	- / -	13 / 8.205
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	8 / 4.867	- / -	- / -	- / -	- / -	8 / 4.867
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 5.941	- / -	- / -	- / -	11 / 5.941
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 3.886	- / -	- / -	6 / 3.886
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 3.355	- / -	4 / 3.355
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.898	6 / 2.898
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	332 / 160.193	12 / 8.194	8 / 4.909	13 / 8.276	- / -	13 / 8.276	10 / 6.074	11 / 5.941	6 / 3.886	4 / 3.355	6 / 2.898	402 / 203.726

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot	
		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	332	-	2	-	10	-	-	8	-	2	7	2	2	2	-	8	-	-	2	5	4	-	2	4	-	-	-	-	4	-	6	402
Out	332	-	-	-	2	-	6	4	8	-	2	2	-	4	7	-	-	-	8	2	5	-	-	4	6	-	-	-	4	6	402	

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0935 - Pollution Control Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - HF030 PLASTIC WASTE PROCESSORS

**Models of Systems Affected:** [No Model Specified]      **Type Modification:** [No Modification Type Specified]      **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	23.860	0.858	-	-	-	-	-	-	-	-	-	24.718
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	23.860	0.858	-	-	-	-	-	-	-	-	-	24.718
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>23.860</b>	<b>0.858</b>	-	-	-	-	-	-	-	-	-	<b>24.718</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Machalt ECP 600, Mod 1 and SHIPALT 2027 backfit, installs improved Plastic Waste Processors.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0935 - Pollution Control Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - HF030 PLASTIC WASTE PROCESSORS

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
HF030 PLASTIC WASTE PROCESSORS												
B Kits												
Recurring												
1.1.1) HF030 PLASTIC WASTE PROCESSORS - NonOrganic	256 / 14.695	6 / 0.518	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	262 / 15.213
<i>Subtotal Recurring</i>	256 / 14.695	6 / 0.518	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	262 / 15.213
<i>Total, HF030 PLASTIC WASTE PROCESSORS</i>	256 / 14.695	6 / 0.518	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	262 / 15.213
<i>Total Procurement, All Modifications</i>	256 / 14.695	6 / 0.518	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	262 / 15.213
<i>Total Procurement and Support</i>	14.695	0.518	-	-	-	-	-	-	-	-	-	15.213
HF030 PLASTIC WASTE PROCESSORS Installation Cost	- / 9.165	- / 0.340	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.505
<i>Total Installation Cost</i>	- / 9.165	- / 0.340	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.505
<b>Total Cost (Procurement + Support + Installation)</b>	<b>23.860</b>	<b>0.858</b>	-	-	-	-	-	-	-	-	-	<b>24.718</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0935 - Pollution Control Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - HF030 PLASTIC WASTE PROCESSORS

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: HF030 PLASTIC WASTE PROCESSORS**

Manufacturer Name: FlightFab, Inc.	Manufacturer Location: Baltimore, MD
Administrative Leadtime ( <i>in Months</i> ): 2	Production Leadtime ( <i>in Months</i> ): 4

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	May 2012						
Delivery Dates	Sep 2012						

**Installation: HF030 PLASTIC WASTE PROCESSORS**      **Method of Implementation: AIT**      **Installation Name: HF030 PLASTIC WASTE PROCESSORS**

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	256 / 9.165	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	256 / 9.165
FY 2012	- / -	6 / 0.340	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.340
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	256 / 9.165	6 / 0.340	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	262 / 9.505

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	256	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	262
Out	256	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	262

**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0941 - Submarine Support Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	66.399	14.122	12.046	8.678	-	8.678	24.043	7.375	3.979	4.026	-	140.668
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	66.399	14.122	12.046	8.678	-	8.678	24.043	7.375	3.979	4.026	-	140.668
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>66.399</b>	<b>14.122</b>	<b>12.046</b>	<b>8.678</b>	<b>-</b>	<b>8.678</b>	<b>24.043</b>	<b>7.375</b>	<b>3.979</b>	<b>4.026</b>	<b>-</b>	<b>140.668</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

**PB51N FLEET MODERNIZATION PROGRAM (FMP) INSTALLATION**

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 and a replacement SEAWOLF Class Ship Control Processor.

**[P40A / PB001 Seawolf Component Upgrades]: 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.

**[P40A / PB004 Facilities/Lab Upgrades]: 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,

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0941 - Submarine Support Equipment

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

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.

[P3A / PB007 SSN/SSBN HM&E THRESHOLD MODERNIZATION EAFW MODIFICATIONS (SHIPALT 4347)]: PB007 SSN/SSBN/SSGN HULL MECHANICAL AND ELECTRICAL (HM&E) THRESHOLD MODERNIZATION  
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.

[P3A / PB008 SSTG GOVERNORS SEAWOLF CLASS AND MOD 25 PROCUREMENT]: PB008 SHIP SERVICE TURBINE GENERATOR (SSTG) GOVERNORS  
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.

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Submarine Support Equipment	P40A, P5A				51.735			12.383			11.096			6.746			-			6.746
1 - PB007 SSN/SSBN HM&E THRESHOLD MODERNIZATION EAFW MODIFICATIONS (SHIPALT 4347)	P3A				8.300			1.378			-			-			-			-
2 - PB007 SSN21 CL SC PROCESSING UNIT	P3A				0.000			-			-			-			-			-
3 - PB008 SSTG GOVERNORS LOS ANGELES & OHIO CL PROCUREMENT	P3A				6.364			0.361			-			-			-			-
4 - PB008 SSTG GOVERNORS SEAWOLF CLASS AND MOD 25 PROCUREMENT	P3A				0.000			-			0.950			1.932			-			1.932
<b>Total Gross/Weapon System Cost</b>					<b>66.399</b>			<b>14.122</b>			<b>12.046</b>			<b>8.678</b>			<b>-</b>			<b>8.678</b>

Item Schedule		ID CD	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Submarine Support Equipment	P40A, P5A				-			-			-			-			-			-

**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0941 - Submarine Support Equipment

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Item Schedule		ID CD	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1 - PB007 SSN/SSBN HM&E THRESHOLD MODERNIZATION EAFW MODIFICATIONS (SHIPALT 4347)	P3A				-			-			-			-			-			9.678
2 - PB007 SSN21 CL SC PROCESSING UNIT	P3A				1.135			3.509			-			-			-			4.644
3 - PB008 SSTG GOVERNORS LOS ANGELES & OHIO CL PROCUREMENT	P3A				-			0.237			0.240			0.244			-			7.446
4 - PB008 SSTG GOVERNORS SEAWOLF CLASS AND MOD 25 PROCUREMENT	P3A				-			-			-			-			-			2.882
<b>Total Gross/Weapon System Cost</b>					<b>24.043</b>			<b>7.375</b>			<b>3.979</b>			<b>4.026</b>			<b>-</b>			<b>140.668</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

**UNCLASSIFIED**

**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0941 - Submarine Support Equipment

**Aggregated Item Name:**  
Submarine Support Equipment

Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) PB001 Seawolf Component Upgrades</b>																				
1.1) Seawolf Propulsor Components	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2) Seawolf Component Upgrades	A		-	-	2.681	-	-	0.202	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 1) PB001 Seawolf Component Upgrades</i>					2.681			0.202												
<b>2) PB004 Facilities/Lab Upgrades</b>																				
† 2.1) Acoustic Range Replacement Equipment	A		6,498K	6	38.985	3,395K	1	3.395	6,050K	1	6.050	2,689K	1	2.689	-	-	-	2,689K	1	2.689
<i>Subtotal 2) PB004 Facilities/Lab Upgrades</i>					38.985			3.395			6.050			2.689						2.689
<b>3) PB007 SSN/SSBN HM&amp;E Threshold Modernization</b>																				
3.1) SSN 21 CL SC Proc Design & Dev	A		-	-	-	-	-	6.909	-	-	4.533	-	-	4.057	-	-	-	-	-	4.057
<i>Subtotal 3) PB007 SSN/SSBN HM&amp;E Threshold Modernization</i>					-			6.909			4.533			4.057						4.057
<b>4) PB008 SSTG Governors</b>																				
4.1) DESIGN AND SHIPALT DEVELOPMENT	A		-	-	10.069	-	-	1.877	-	-	0.513	-	-	-	-	-	-	-	-	-
<i>Subtotal 4) PB008 SSTG Governors</i>					10.069			1.877			0.513			-						-
<b>Total</b>					<b>51.735</b>			<b>12.383</b>			<b>11.096</b>			<b>6.746</b>						<b>6.746</b>

**UNCLASSIFIED**

**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0941 - Submarine Support Equipment

**Aggregated Item Name:**  
Submarine Support Equipment

Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) PB001 Seawolf Component Upgrades</b>																				
1.1) Seawolf Propulsor Components	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2) Seawolf Component Upgrades	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 1) PB001 Seawolf Component Upgrades</i>					-			-			-			-			-			-
<b>2) PB004 Facilities/Lab Upgrades</b>																				
† 2.1) Acoustic Range Replacement Equipment	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) PB004 Facilities/Lab Upgrades</i>					-			-			-			-			-			-
<b>3) PB007 SSN/SSBN HM&amp;E Threshold Modernization</b>																				
3.1) SSN 21 CL SC Proc Design & Dev	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 3) PB007 SSN/SSBN HM&amp;E Threshold Modernization</i>					-			-			-			-			-			-
<b>4) PB008 SSTG Governors</b>																				
4.1) DESIGN AND SHIPALT DEVELOPMENT	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 4) PB008 SSTG Governors</i>					-			-			-			-			-			-
<b>Total</b>					-			-			-			-			-			-

**UNCLASSIFIED**

<b>Exhibit P-5A, Budget Procurement History and Planning:</b> PB 2014 Navy										<b>Date:</b> April 2013		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment				<b>P-1 Line Item Nomenclature:</b> 0941 - Submarine Support Equipment				<b>Aggregated Item Name:</b> Submarine Support Equipment				
Items	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>2) PB004 Facilities/Lab Upgrades</b>												
2.1) Acoustic Range Replacement Equipment		2011	NSWC/CD / PHILADELPHIA, PA	Various	NAVSEA	Apr 2011	Oct 2011	1	3,497K	Y		
2.1) Acoustic Range Replacement Equipment		2012	NSWC/CD / PHILADELPHIA, PA	Various	NAVSEA	Jan 2012	Jul 2012	1	3,395K	Y		
2.1) Acoustic Range Replacement Equipment		2013	NSWC/CD / PHILADELPHIA, PA	C / TBD	NAVSEA	Jan 2013	Jul 2013	1	6,050K	Y		
2.1) Acoustic Range Replacement Equipment		2014	NSWC/CD / PHILADELPHIA, PA	C / TBD	NAVSEA	Jan 2014	Jul 2014	1	2,689K	Y		

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0941 - Submarine Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - PB007 SSN/SSBN HM&E THRESHOLD MODERNIZATION EAFW MODIFICATIONS (SHIPALT 4347)

**Models of Systems Affected:** [No Model Specified]      **Type Modification:** [No Modification Type Specified]      **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	8.300	1.378	-	-	-	-	-	-	-	-	-	9.678
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	8.300	1.378	-	-	-	-	-	-	-	-	-	9.678
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>8.300</b>	<b>1.378</b>	-	-	-	-	-	-	-	-	-	<b>9.678</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0941 - Submarine Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - PB007 SSN/SSBN HM&E THRESHOLD MODERNIZATION EAFW MODIFICATIONS (SHIPALT 4347)

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
N/A												
<i>Total, N/A</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Total Procurement, All Modifications</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Support</b>												
2.1) DSA	- / 2.157	- / 0.122	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.279
2.2) SHAPEC	- / 0.255	- / 0.040	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.295
2.3) ADVANCE PLANNING	- / 1.220	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.220
2.4) SHIPALT 4347 INSTALLATION	12 / 4.668	2 / 1.216	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 5.884
<i>Total Support, All Modifications</i>	8.300	1.378	-	-	-	-	-	-	-	-	-	9.678
<i>Total Procurement and Support</i>	8.300	1.378	-	-	-	-	-	-	-	-	-	9.678
<i>Total Installation Cost</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total Cost (Procurement + Support + Installation)</b>	<b>8.300</b>	<b>1.378</b>	-	-	-	-	-	-	-	-	-	<b>9.678</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy					<b>Date:</b> April 2013			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment				<b>P-1 Line Item Nomenclature:</b> 0941 - Submarine Support Equipment			<b>Modification Nomenclature</b> <i>(Modification Number - Modification Title):</i> 1 - PB007 SSN/SSBN HM&E THRESHOLD MODERNIZATION EAFW MODIFICATIONS (SHIPALT 4347)	
<b>Models of Systems Affected:</b> [No Model Specified]			<b>Type Modification:</b> [No Modification Type Specified]			<b>Related RDT&amp;E PEs:</b>		
<b>Manufacturer Information:</b> N/A								
Manufacturer Name: N/A				Manufacturer Location: N/A				
Administrative Leadtime <i>(in Months):</i>				Production Leadtime <i>(in Months):</i>				
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	
Contract Dates								
Delivery Dates								
<b>Installation:</b> N/A			<b>Method of Implementation:</b> Support Only Installation			<b>Installation Quantity:</b> 0		

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0941 - Submarine Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - PB007 SSN21 CL SC PROCESSING UNIT

**Models of Systems Affected:** [No Model Specified]      **Type Modification:** [No Modification Type Specified]      **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	-	-	-	-	1.135	3.509	-	-	-	4.644
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	-	-	-	-	1.135	3.509	-	-	-	4.644
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>0.000</b>	-	-	-	-	-	<b>1.135</b>	<b>3.509</b>	-	-	-	<b>4.644</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

SHIPALT WILL REPLACE SSN21 CLASS SUBMARINE SHIP CONTROL PROCESSING UNIT.  
THE SHIP CONTROL PROCESSORS ARE OBSOLETE AND CONTAIN ELECTRONIC COMPONENTS THAT ARE NO LONGER SUPPORTED BY INDUSTRY.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0941 - Submarine Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - PB007 SSN21 CL SC PROCESSING UNIT

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
PB007 SSN21 CL SC PROCESSING UNIT												
B Kits												
Recurring												
1.1.1) SSN 21 CL SHIP CONTROL PROCESSING UNIT - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.135	2 / 2.309	- / -	- / -	- / -	3 / 3.444
<i>Subtotal Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.135	2 / 2.309	- / -	- / -	- / -	3 / 3.444
<i>Total, PB007 SSN21 CL SC PROCESSING UNIT</i>	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.135	2 / 2.309	- / -	- / -	- / -	3 / 3.444
<i>Total Procurement, All Modifications</i>	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.135	2 / 2.309	- / -	- / -	- / -	3 / 3.444
<i>Total Procurement and Support</i>	-	-	-	-	-	-	1.135	2.309	-	-	-	3.444
PB007 SSN21 CL SC PROCESSING UNIT Installation Cost	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.200	- / -	- / -	- / -	- / 1.200
<i>Total Installation Cost</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.200	- / -	- / -	- / -	- / 1.200
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	-	-	-	-	-	<b>1.135</b>	<b>3.509</b>	-	-	-	<b>4.644</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0941 - Submarine Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - PB007 SSN21 CL SC PROCESSING UNIT

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: PB007 SSN21 CL SC PROCESSING UNIT**

Manufacturer Name: NUWC Neport	Manufacturer Location: Newport, RI
Administrative Leadtime ( <i>in Months</i> ): 0	Production Leadtime ( <i>in Months</i> ): 4

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates				Jul 2015	Jan 2016		
Delivery Dates				Oct 2015	May 2016		

<b>Installation:</b> PB007 SSN21 CL SC PROCESSING UNIT	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> SSN 21 CL SHIP CONTROL PROCESSING UNIT
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.400	- / -	- / -	- / -	1 / 0.400
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.800	- / -	- / -	- / -	2 / 0.800
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.200	- / -	- / -	- / -	3 / 1.200

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	1	1	-	-	-	-	-	-	-	-	-	3
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	-	-	-	-	-	-	-	-	3

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0941 - Submarine Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - PB008 SSTG GOVERNORS LOS ANGELES & OHIO CL PROCUREMENT

<b>Models of Systems Affected:</b> PB008 SSTG Governors Los Angeles and Ohio Procurement	<b>Type Modification:</b> K-Alt	<b>Related RDT&amp;E PEs:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	6.364	0.361	-	-	-	-	-	0.237	0.240	0.244	-	7.446
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	6.364	0.361	-	-	-	-	-	0.237	0.240	0.244	-	7.446
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>6.364</b>	<b>0.361</b>	-	-	-	-	-	<b>0.237</b>	<b>0.240</b>	<b>0.244</b>	-	<b>7.446</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

ShipAlt replaces SSTG Governors in Ohio and Los Angeles Submarines.

The SSTG Governors in these classes of ship are obsolete and contain electronic components that are no longer supported by industry.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0941 - Submarine Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - PB008 SSTG GOVERNORS LOS ANGELES & OHIO CL PROCUREMENT

<b>Models of Systems Affected:</b> PB008 SSTG Governors Los Angeles and Ohio Procurement	<b>Type Modification:</b> K-Alt	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
PB008 SSTG GOVERNORS LOS ANGELES & OHIO CL PROCUREMENT												
B Kits												
Recurring												
1.1.1) SSTG GOVERNORS LOS ANGELES AND OHIO CLASS SUBMARINES - NonOrganic	35 / 3.306	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.086	1 / 0.088	1 / 0.089	- / -	38 / 3.569
Subtotal Recurring	35 / 3.306	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.086	1 / 0.088	1 / 0.089	- / -	38 / 3.569
Total, PB008 SSTG GOVERNORS LOS ANGELES & OHIO CL PROCUREMENT	35 / 3.306	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.086	1 / 0.088	1 / 0.089	- / -	38 / 3.569
Total Procurement, All Modifications	35 / 3.306	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.086	1 / 0.088	1 / 0.089	- / -	38 / 3.569
<b>Support</b>												
2.1) DSA	9 / 0.744	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.053	- / 0.054	- / 0.056	- / -	9 / 0.907
Total Support, All Modifications	0.744	-	-	-	-	-	-	0.053	0.054	0.056	-	0.907
Total Procurement and Support	4.050	-	-	-	-	-	-	0.139	0.142	0.145	-	4.476
PB008 SSTG GOVERNORS LOS ANGELES & OHIO CL PROCUREMENT Installation Cost	- / 2.314	- / 0.361	- / -	- / -	- / -	- / -	- / -	- / 0.098	- / 0.098	- / 0.099	- / -	- / 2.970
Total Installation Cost	- / 2.314	- / 0.361	- / -	- / -	- / -	- / -	- / -	- / 0.098	- / 0.098	- / 0.099	- / -	- / 2.970
<b>Total Cost (Procurement + Support + Installation)</b>	<b>6.364</b>	<b>0.361</b>	-	-	-	-	-	<b>0.237</b>	<b>0.240</b>	<b>0.244</b>	-	<b>7.446</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0941 - Submarine Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - PB008 SSTG GOVERNORS LOS ANGELES & OHIO CL PROCUREMENT

<b>Models of Systems Affected:</b> PB008 SSTG Governors Los Angeles and Ohio Procurement	<b>Type Modification:</b> K-Alt	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: PB008 SSTG GOVERNORS LOS ANGELES & OHIO CL PROCUREMENT**

Manufacturer Name: NSWC SSES	Manufacturer Location: unk
Administrative Leadtime ( <i>in Months</i> ): 0	Production Leadtime ( <i>in Months</i> ): 4

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates					Jan 2016	Jan 2017	Jan 2018
Delivery Dates					May 2016	May 2017	May 2018

<b>Installation:</b> PB008 SSTG GOVERNORS LOS ANGELES & OHIO CL PROCUREMENT	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> SSTG GOVERNORS LOS ANGELES AND OHIO CLASS SUBMARINES
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	31 / 2.314	4 / 0.361	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 2.675
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.098	- / -	- / -	- / -	1 / 0.098
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.098	- / -	- / -	1 / 0.098
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.099	- / -	1 / 0.099
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	31 / 2.314	4 / 0.361	- / -	- / -	- / -	- / -	- / -	1 / 0.098	1 / 0.098	1 / 0.099	- / -	38 / 2.970

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot	
		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	31	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1	-	-	38
Out	31	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1	-	-	38

<b>Installation:</b> PB008 SSTG GOVERNORS LOS ANGELES & OHIO CL PROCUREMENT	<b>Method of Implementation:</b> Not Installed - DSA	<b>Installation Quantity:</b> 9
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**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0941 - Submarine Support Equipment	<b>Modification Nomenclature</b> <i>(Modification Number - Modification Title):</i> 4 - PB008 SSTG GOVERNORS SEAWOLF CLASS AND MOD 25 PROCUREMENT

**Models of Systems Affected:** [No Model Specified]      **Type Modification:** [No Modification Type Specified]      **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	-	0.950	1.932	-	1.932	-	-	-	-	-	2.882
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	0.000	-	0.950	1.932	-	1.932	-	-	-	-	-	2.882
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>0.000</b>	-	<b>0.950</b>	<b>1.932</b>	-	<b>1.932</b>	-	-	-	-	-	<b>2.882</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(Units in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0941 - Submarine Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - PB008 SSTG GOVERNORS SEAWOLF CLASS AND MOD 25 PROCUREMENT

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
PB008 SSTG GOVERNORS SEAWOLF CLASS AND MOD 25 PROCUREMENT												
B Kits												
Recurring												
1.1.1) SSTG GOVERNORS SEAWOLF CLASS AND MOD 25 PROCUREMENT - NonOrganic	- / -	- / -	1 / 0.700	2 / 1.424	- / -	2 / 1.424	- / -	- / -	- / -	- / -	- / -	3 / 2.124
Subtotal Recurring	- / -	- / -	1 / 0.700	2 / 1.424	- / -	2 / 1.424	- / -	- / -	- / -	- / -	- / -	3 / 2.124
Total, PB008 SSTG GOVERNORS SEAWOLF CLASS AND MOD 25 PROCUREMENT	- / -	- / -	1 / 0.700	2 / 1.424	- / -	2 / 1.424	- / -	- / -	- / -	- / -	- / -	3 / 2.124
Total Procurement, All Modifications	- / -	- / -	1 / 0.700	2 / 1.424	- / -	2 / 1.424	- / -	- / -	- / -	- / -	- / -	3 / 2.124
<b>Support</b>												
2.1) DSA	- / -	- / -	- / 0.050	- / 0.102	- / -	- / 0.102	- / -	- / -	- / -	- / -	- / -	- / 0.152
Total Support, All Modifications	-	-	0.050	0.102	-	0.102	-	-	-	-	-	0.152
Total Procurement and Support	-	-	0.750	1.526	-	1.526	-	-	-	-	-	2.276
PB008 SSTG GOVERNORS SEAWOLF CLASS AND MOD 25 PROCUREMENT Installation Cost	- / 0.000	- / -	- / 0.200	- / 0.406	- / -	- / 0.406	- / -	- / -	- / -	- / -	- / -	- / 0.606
Total Installation Cost	- / 0.000	- / -	- / 0.200	- / 0.406	- / -	- / 0.406	- / -	- / -	- / -	- / -	- / -	- / 0.606
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	-	<b>0.950</b>	<b>1.932</b>	-	<b>1.932</b>	-	-	-	-	-	<b>2.882</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0941 - Submarine Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - PB008 SSTG GOVERNORS SEAWOLF CLASS AND MOD 25 PROCUREMENT

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: PB008 SSTG GOVERNORS SEAWOLF CLASS AND MOD 25 PROCUREMENT**

Manufacturer Name: NSWC SSES				Manufacturer Location: unk			
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 4			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates		May 2013	Jan 2014				
Delivery Dates		Sep 2013	May 2014				

<b>Installation:</b> PB008 SSTG GOVERNORS SEAWOLF CLASS AND MOD 25 PROCUREMENT	<b>Method of Implementation:</b> [none specified]	<b>Installation Name:</b> SSTG GOVERNORS SEAWOLF CLASS AND MOD 25 PROCUREMENT
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<b>Installation Cost</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO</b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	1 / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.200
FY 2014	- / -	- / -	- / -	2 / 0.406	- / -	2 / 0.406	- / -	- / -	- / -	- / -	- / -	2 / 0.406
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	- / -	- / -	1 / 0.200	2 / 0.406	- / -	2 / 0.406	- / -	- / -	- / -	- / -	- / -	3 / 0.606

<b>Installation Schedule</b>																															
	<b>APY</b>	<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>TC</b>	<b>Tot</b>
		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>																										
In	-	-	-	-	-	-	-	-	1	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Out	-	-	-	-	-	-	-	-	1	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0942 - Virginia Class Support Equipment

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:** 0604558N, 0204281N

**MDAP/MAIS Code(s):** 516

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	929.043	93.487	79.870	74.209	-	74.209	62.552	46.597	47.199	44.429	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	929.043	93.487	79.870	74.209	-	74.209	62.552	46.597	47.199	44.429	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>929.043</b>	<b>93.487</b>	<b>79.870</b>	<b>74.209</b>	<b>-</b>	<b>74.209</b>	<b>62.552</b>	<b>46.597</b>	<b>47.199</b>	<b>44.429</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	0.364	2.061	3.060	-	3.060	2.943	3.470	3.035	2.458	Continuing	Continuing
Flyaway Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

This provides a wide range of material required to operate, test, support and maintain the viability of VIRGINIA SSN-774 Class Submarines. The "Major Shore Spares" component includes rotatable pool and insurance spares. Propulsor 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, and ship service turbine generator) 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 in the Vertical Launch System (VLS) Peculiar Support Equipment (PSE) are 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 the work by facilitating electronic correspondence, personnel data management, collaborative services, interactive whiteboard, multi-user chat and access to these sites: FTMP/NTMP, CHCS, prescriptions, MYPAY-DFAS, EPMAC, BUPERS, EMAIL, FTSC/LANT, SUBMEPP and NKO.

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2014 Navy	<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b> 0604558N, 0204281N
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**MDAP/MAIS Code(s):** 516

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&MN funding over time. This will be fielded as part of the Non-Tactical Data Processing System (NTDPS) to VIRGINIA Class submarines.

Funding for survival equipment ensures compliance to CNO requirements for crew life support and survivability for several days. Procurement includes LiOH canisters, Submarine Escape Immersion Equipment (SEIE) suits and oxygen (O2) candles.

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.

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 (NPES). 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).

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Virginia Class Support Equipment	P40A			510.328			34.629			18.820			8.971			-			8.971	
1 - H1RC3 - VLS/VPT Peculiar Support Equipment	P3A			28.879			-			-			-			-			-	
2 - H1RC6 - Major Shore Spares	P3A			190.782			3.053			-			12.850			-			12.850	
3 - H1RC8 - Intermediate & Depot (I&D) Support Equipment	P3A			54.662			2.500			-			-			-			-	
4 - HRC11 - VA Class Support Equipment	P3A			16.563			5.100			3.182			-			-			-	
5 - HRC13 - Hotel Services	P3A			106.447			43.038			38.613			22.632			-			22.632	
6 - HRC13 - Infrastructure Upgrades	P3A			0.000			-			1.307			18.643			-			18.643	
7 - HRC13 - Non-Tactical Data Processing System	P3A			5.044			5.135			5.227			5.313			-			5.313	
8 - HRC13 - SHIPALT SA4612K	P3A			9.338			0.032			11.966			-			-			-	
9 - HRC13 - Ship Control System (SCS) Modernization Backfit	P3A			7.000			-			0.755			5.800			-			5.800	

**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0942 - Virginia Class Support Equipment

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:** 0604558N, 0204281N

**MDAP/MAIS Code(s):** 516

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>Total Gross/Weapon System Cost</b>				929.043			93.487			79.870			74.209			-			74.209	
Item Schedule		ID CD	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Virginia Class Support Equipment	P40A			-			-			-			-			-			-	
1 - H1RC3 - VLS/VPT Peculiar Support Equipment	P3A			-			-			-			-			-			28.879	
2 - H1RC6 - Major Shore Spares	P3A			7.387			7.025			7.144			7.265	Continuing					Continuing	
3 - H1RC8 - Intermediate & Depot (I&D) Support Equipment	P3A			-			-			-			-			-			57.162	
4 - HRC11 - VA Class Support Equipment	P3A			-			-			-			-			-			24.845	
5 - HRC13 - Hotel Services	P3A			10.135			-			11.777			4.828			-			237.470	
6 - HRC13 - Infrastructure Upgrades	P3A			24.085			17.931			6.444			13.744			-			82.154	
7 - HRC13 - Non-Tactical Data Processing System	P3A			5.402			5.510			5.604			5.699			-			42.934	
8 - HRC13 - SHIPALT SA4612K	P3A			-			-			-			-			-			21.336	
9 - HRC13 - Ship Control System (SCS) Modernization Backfit	P3A			4.500			4.600			4.600			1.200			-			28.455	
<b>Total Gross/Weapon System Cost</b>				<b>62.552</b>			<b>46.597</b>			<b>47.199</b>			<b>44.429</b>	<b>Continuing</b>					<b>Continuing</b>	

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

**UNCLASSIFIED**

<b>Exhibit P-40A, Budget Item Justification For Aggregated Items:</b> PB 2014 Navy															<b>Date:</b> April 2013				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment										<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment					<b>Aggregated Item Name:</b> Virginia Class Support Equipment				

Items	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) H1RC1 VIRGINIA CLASS SOF SUPPORT</b>																				
1.1) VIRGINIA Class SOF Support	A		-	-	2.773	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 1) H1RC1 VIRGINIA CLASS SOF SUPPORT</i>					2.773															
<b>2) H1RC2 TEST &amp; EVALUATION EQUIPMENT</b>																				
2.1) Test & Evaluation Measuring Equipment	A		-	-	18.250	-	-	2.216	-	-	1.792	-	-	1.864	-	-	-	-	-	1.864
<i>Subtotal 2) H1RC2 TEST &amp; EVALUATION EQUIPMENT</i>					18.250			2.216			1.792			1.864						1.864
<b>3) H1RC4 VA SHIP CONTROL OPERATOR (VSCOT) TRAINER</b>																				
3.1) VA Ship Control Operator (VSCOT) Trainer	A		-	-	10.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 3) H1RC4 VA SHIP CONTROL OPERATOR (VSCOT) TRAINER</i>					10.000															
<b>4) H1RC5 EXTERIOR COMMUNICATION SYSTEM (ECS) TRAINER</b>																				
4.1) Exterior Communication System (ECS) Trainer	A		-	-	5.043	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 4) H1RC5 EXTERIOR COMMUNICATION SYSTEM (ECS) TRAINER</i>					5.043															
<b>5) H1RC7 REMAINING VA CLASS TRAINERS</b>																				
5.1) Remaining VA Class Trainers	A		-	-	27.792	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 5) H1RC7 REMAINING VA CLASS TRAINERS</i>					27.792															
<b>6) H1RC9 WEST COAST SEAFAC</b>																				
6.1) West Coast SEAFAC	A		-	-	28.170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 6) H1RC9 WEST COAST SEAFAC</i>					28.170															

**UNCLASSIFIED**

**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0942 - Virginia Class Support Equipment

**Aggregated Item Name:**  
Virginia Class Support Equipment

Items	ID CD	MDAP/ MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)															
<b>7) H1RC10 VOYAGE MANAGEMENT SYSTEM</b>																				
7.1) Voyage Management System (VMS)	A		-	-	7.038	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 7) H1RC10 VOYAGE MANAGEMENT SYSTEM</i>					7.038															
<b>8) H1RC13 TECH INSERTION TECH REFRESH &amp; UPGRADES</b>																				
8.1) H1RC13 Prior Years	A		-	-	381.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.2) HM&E Tech Refresh	A		-	-	1.353	-	-	1.380	-	-	1.407	-	-	1.430	-	-	-	-	-	1.430
8.3) NPES Tech Refresh	A		-	-	1.457	-	-	1.486	-	-	1.515	-	-	1.542	-	-	-	-	-	1.542
8.4) Shipboard Mobile Computing NTDPS (ULAN + SW Enclave + PDOCS + Upgrades)	A		-	-	2.081	-	-	2.122	-	-	2.165	-	-	2.208	-	-	-	-	-	2.208
8.5) System Level Activities PSA/Post PSA	A		-	-	1.717	-	-	1.751	-	-	1.786	-	-	1.822	-	-	-	-	-	1.822
8.6) HM&E and CFE NPES Modernization	A		-	-	7.210	-	-	18.639	-	-	6.136	-	-	-	-	-	-	-	-	-
8.7) Misc. Upgrades, Tech Refresh	A		-	-	0.900	-	-	1.900	-	-	3.247	-	-	0.105	-	-	-	-	-	0.105
<i>Subtotal 8) H1RC13 TECH INSERTION TECH REFRESH &amp; UPGRADES</i>					395.720			27.278			16.256			7.107						7.107
<b>9) HRC14 SURVIVAL EQUIPMENT FOR SEA RIDERS</b>																				
9.1) Survival Equipment for Sea Trial Riders	A		-	-	-	-	-	0.735	-	-	0.772	-	-	-	-	-	-	-	-	-
<i>Subtotal 9) HRC14 SURVIVAL EQUIPMENT FOR SEA RIDERS</i>					-			0.735			0.772			-						-
<b>10) HRC16 SHIP CONTROL TACT LAB SET FOR REDESIGN CONFIGURATION</b>																				
10.1) Ship Control TACT Lab Set for Redesign Configuration	A		-	-	3.415	-	-	4.400	-	-	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment	<b>Aggregated Item Name:</b> Virginia Class Support Equipment
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Items	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal 10) HRC16 SHIP CONTROL TACT LAB SET FOR REDESIGN CONFIGURATION</i>					3.415			4.400			-			-			-			-
<b>11) HRC17 MODERN LEGACY CRYPTO SYSTEM</b>																				
11.1) Modern Legacy Crypto System	A		-	-	3.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 11) HRC17 MODERN LEGACY CRYPTO SYSTEM</i>					3.000			-			-			-			-			-
<b>12) SCA1R SHIPBOARD WIRELESS MOBILE COMPUTING (NTDPS WIRELESS LAN)</b>																				
12.1) Shipboard Wireless Mobile Computing (NTDPS Wireless LAN)	A		-	-	7.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 12) SCA1R SHIPBOARD WIRELESS MOBILE COMPUTING (NTDPS WIRELESS LAN)</i>					7.200			-			-			-			-			-
<b>13) SCA2R VA MAINTENANCE PLANNING SYSTEM TECHNOLOGY</b>																				
13.1) VA Maintenance Planning System Technology	A		-	-	1.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 13) SCA2R VA MAINTENANCE PLANNING SYSTEM TECHNOLOGY</i>					1.000			-			-			-			-			-
<b>14) WAXXX ACQUISITION WORKFORCE FUND 2009</b>																				
14.1) Acquisition Workforce Fund 2009	A		-	-	0.927	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 14) WAXXX ACQUISITION WORKFORCE FUND 2009</i>					0.927			-			-			-			-			-
<b>Total</b>					<b>510.328</b>			<b>34.629</b>			<b>18.820</b>			<b>8.971</b>			<b>-</b>			<b>8.971</b>

**UNCLASSIFIED**

<b>Exhibit P-40A, Budget Item Justification For Aggregated Items:</b> PB 2014 Navy															<b>Date:</b> April 2013				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment										<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment					<b>Aggregated Item Name:</b> Virginia Class Support Equipment				

Items	ID CD	MDAP/MAIS Code	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) H1RC1 VIRGINIA CLASS SOF SUPPORT</b>																				
1.1) VIRGINIA Class SOF Support	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 1) H1RC1 VIRGINIA CLASS SOF SUPPORT</i>					-															
<b>2) H1RC2 TEST &amp; EVALUATION EQUIPMENT</b>																				
2.1) Test & Evaluation Measuring Equipment	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) H1RC2 TEST &amp; EVALUATION EQUIPMENT</i>					-															
<b>3) H1RC4 VA SHIP CONTROL OPERATOR (VSCOT) TRAINER</b>																				
3.1) VA Ship Control Operator (VSCOT) Trainer	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 3) H1RC4 VA SHIP CONTROL OPERATOR (VSCOT) TRAINER</i>					-															
<b>4) H1RC5 EXTERIOR COMMUNICATION SYSTEM (ECS) TRAINER</b>																				
4.1) Exterior Communication System (ECS) Trainer	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 4) H1RC5 EXTERIOR COMMUNICATION SYSTEM (ECS) TRAINER</i>					-															
<b>5) H1RC7 REMAINING VA CLASS TRAINERS</b>																				
5.1) Remaining VA Class Trainers	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 5) H1RC7 REMAINING VA CLASS TRAINERS</i>					-															
<b>6) H1RC9 WEST COAST SEAFAC</b>																				
6.1) West Coast SEAFAC	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 6) H1RC9 WEST COAST SEAFAC</i>					-															

**UNCLASSIFIED**

<b>Exhibit P-40A, Budget Item Justification For Aggregated Items:</b> PB 2014 Navy															<b>Date:</b> April 2013				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment										<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment					<b>Aggregated Item Name:</b> Virginia Class Support Equipment				

Items	ID CD	MDAP/MAIS Code	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>7) H1RC10 VOYAGE MANAGEMENT SYSTEM</b>																				
7.1) Voyage Management System (VMS)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 7) H1RC10 VOYAGE MANAGEMENT SYSTEM</i>					-			-			-			-			-			-
<b>8) H1RC13 TECH INSERTION TECH REFRESH &amp; UPGRADES</b>																				
8.1) H1RC13 Prior Years	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.2) HM&E Tech Refresh	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.3) NPES Tech Refresh	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.4) Shipboard Mobile Computing NTDPS (ULAN + SW Enclave + PDOCS + Upgrades)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.5) System Level Activities PSA/Post PSA	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.6) HM&E and CFE NPES Modernization	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.7) Misc. Upgrades, Tech Refresh	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 8) H1RC13 TECH INSERTION TECH REFRESH &amp; UPGRADES</i>					-			-			-			-			-			-
<b>9) HRC14 SURVIVAL EQUIPMENT FOR SEA RIDERS</b>																				
9.1) Survival Equipment for Sea Trial Riders	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 9) HRC14 SURVIVAL EQUIPMENT FOR SEA RIDERS</i>					-			-			-			-			-			-
<b>10) HRC16 SHIP CONTROL TACT LAB SET FOR REDESIGN CONFIGURATION</b>																				
10.1) Ship Control TACT Lab Set for Redesign Configuration	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0942 - Virginia Class Support Equipment

**Aggregated Item Name:**  
Virginia Class Support Equipment

Items	ID CD	MDAP/ MAIS Code	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)															
<i>Subtotal 10) HRC16 SHIP CONTROL TACT LAB SET FOR REDESIGN CONFIGURATION</i>																				
<b>11) HRC17 MODERN LEGACY CRYPTO SYSTEM</b>																				
11.1) Modern Legacy Crypto System	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 11) HRC17 MODERN LEGACY CRYPTO SYSTEM</i>																				
<b>12) SCA1R SHIPBOARD WIRELESS MOBILE COMPUTING (NTDPS WIRELESS LAN)</b>																				
12.1) Shipboard Wireless Mobile Computing (NTDPS Wireless LAN)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 12) SCA1R SHIPBOARD WIRELESS MOBILE COMPUTING (NTDPS WIRELESS LAN)</i>																				
<b>13) SCA2R VA MAINTENANCE PLANNING SYSTEM TECHNOLOGY</b>																				
13.1) VA Maintenance Planning System Technology	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 13) SCA2R VA MAINTENANCE PLANNING SYSTEM TECHNOLOGY</i>																				
<b>14) WAXXX ACQUISITION WORKFORCE FUND 2009</b>																				
14.1) Acquisition Workforce Fund 2009	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 14) WAXXX ACQUISITION WORKFORCE FUND 2009</i>																				
<b>Total</b>			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment		<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment
<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - H1RC3 - VLS/VPT Peculiar Support Equipment		

**Models of Systems Affected:** VA Class Submarines      **Type Modification:** Various      **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	28.879	-	-	-	-	-	-	-	-	-	-	28.879
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	28.879	-	-	-	-	-	-	-	-	-	-	28.879
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>28.879</b>	-	-	-	-	-	-	-	-	-	-	<b>28.879</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Procures VLS/VPT support equipment necessary to support the VA Class submarine program. Examples of VLS/VPT Peculiar Support Equipment are: All Up Round Special Support Equipment (AUR SSE); All Up Round Ballast Grade B (AURBd); Center Cell Access Port. There are no installation costs associated with this support equipment.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - H1RC3 - VLS/VPT Peculiar Support Equipment

<b>Models of Systems Affected:</b> VA Class Submarines	<b>Type Modification:</b> Various	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
H1RC3 - VLS/VPT Peculiar Support Equipment												
B Kits												
Non-Recurring												
1.1.1) H1RC3 Prior Years - Organic	- / 18.409	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.409
1.1.2) All Up Round Special Support Equipment (AUR SSE) - Organic	4 / 1.620	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.620
1.1.4) Multiple All Up Round Canister (MAC) SSE - Organic	1 / 0.379	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.379
1.1.5) Center Cell Access Port (CCAP) - Organic	5 / 0.395	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.395
1.1.6) All Up Round Valumentric Shapes (AURVS) - Organic	12 / 3.396	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 3.396
1.1.7) MK112 All Up Round Electronic Simulator (AURES) - Organic	156 / 4.680	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	156 / 4.680
<b>Subtotal Non-Recurring</b>	<b>178 / 28.879</b>	<b>- / -</b>	<b>178 / 28.879</b>									
<b>Total, H1RC3 - VLS/VPT Peculiar Support Equipment</b>	<b>178 / 28.879</b>	<b>- / -</b>	<b>178 / 28.879</b>									
<b>Total Procurement, All Modifications</b>	<b>178 / 28.879</b>	<b>- / -</b>	<b>178 / 28.879</b>									
<b>Total Procurement and Support</b>	<b>28.879</b>	<b>-</b>	<b>28.879</b>									
<b>Total Installation Cost</b>	<b>- / -</b>											
<b>Total Cost (Procurement + Support + Installation)</b>	<b>28.879</b>	<b>-</b>	<b>28.879</b>									

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy					<b>Date:</b> April 2013			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment				<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment			<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - H1RC3 - VLS/VPT Peculiar Support Equipment	
<b>Models of Systems Affected:</b> VA Class Submarines			<b>Type Modification:</b> Various		<b>Related RDT&amp;E PEs:</b>			
<b>Manufacturer Information: H1RC3 - VLS/VPT Peculiar Support Equipment</b>								
Manufacturer Name: NUWC Newport-AUR SSE <sup>(1)</sup>				Manufacturer Location: Newport, RI				
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 5				
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	
Contract Dates								
Delivery Dates								
Manufacturer Name: NUWC Newport - MAC <sup>(2)</sup>				Manufacturer Location: Newport, RI				
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 5				
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	
Contract Dates								
Delivery Dates								
Manufacturer Name: NUWC Newport - CCAP <sup>(3)</sup>				Manufacturer Location: Newport, RI				
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 5				
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	
Contract Dates								
Delivery Dates								
Manufacturer Name: NUWC Newport - AURVS <sup>(4)</sup>				Manufacturer Location: Newport, RI				
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 5				
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	
Contract Dates								
Delivery Dates								
Manufacturer Name: NUWC Newport - AURES <sup>(5)</sup>				Manufacturer Location: Newport, RI				
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 7				
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	
Contract Dates								
Delivery Dates								

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - H1RC3 - VLS/VPT Peculiar Support Equipment
<b>Models of Systems Affected:</b> VA Class Submarines	<b>Type Modification:</b> Various	<b>Related RDT&amp;E PEs:</b>
<b>Installation:</b> H1RC3 - VLS/VPT Peculiar Support Equipment	<b>Method of Implementation:</b> Not Installed - All Up Round Special Support Equipment (AUR SSE)	<b>Installation Quantity:</b> 4
<b>Installation:</b> H1RC3 - VLS/VPT Peculiar Support Equipment	<b>Method of Implementation:</b> Not Installed - Multiple All Up Round Canister (MAC) SSE	<b>Installation Quantity:</b> 1
<b>Installation:</b> H1RC3 - VLS/VPT Peculiar Support Equipment	<b>Method of Implementation:</b> Not Installed - Center Cell Access Port (CCAP)	<b>Installation Quantity:</b> 5
<b>Installation:</b> H1RC3 - VLS/VPT Peculiar Support Equipment	<b>Method of Implementation:</b> Not Installed - All Up Round Valumentric Shapes (AURVS)	<b>Installation Quantity:</b> 12
<b>Installation:</b> H1RC3 - VLS/VPT Peculiar Support Equipment	<b>Method of Implementation:</b> Not Installed - MK112 All Up Round Electronic Simulator (AURES)	<b>Installation Quantity:</b> 156
<b>Footnotes:</b> (1) Contract for All Up Round Special Support Equipment (AUR SSE). (2) Contract for Multiple All Up Round Canister (MAC) SSE. (3) Contract for Center Cell Access Port (CCAP). (4) Contract for All Up Round Columetric Shapes (AURVS). (5) Contract for MK112 All Up Round Electronic Simulator (AURES).		

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment		<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment
		<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - H1RC6 - Major Shore Spares

<b>Models of Systems Affected:</b> VA Class Submarine			<b>Type Modification:</b> Various				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	190.782	3.053	-	12.850	-	12.850	7.387	7.025	7.144	7.265	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	190.782	3.053	-	12.850	-	12.850	7.387	7.025	7.144	7.265	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>190.782</b>	<b>3.053</b>	<b>-</b>	<b>12.850</b>	<b>-</b>	<b>12.850</b>	<b>7.387</b>	<b>7.025</b>	<b>7.144</b>	<b>7.265</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Procures equipment and materials necessary to support the VA Class submarine program. Materials are as large as spare rotors and as small as spare anodes and fasteners. Quantity is variable and would skew any attempt to determine a unit cost. VIRGINIA Class rotatable pool rotors are replaced during each EDSRA. The rotors are removed, refurbished, and placed into a pool. There is no set installation schedule as rotors, once available, are installed on subsequent availabilities.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - H1RC6 - Major Shore Spares

<b>Models of Systems Affected:</b> VA Class Submarine	<b>Type Modification:</b> Various	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
H1RC6 - Major Shore Spares												
B Kits												
Non-Recurring												
1.1.1) H1RC6 Prior Years - Organic	- / 172.620	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 172.620
1.1.2) Propulsor - Rotatable Pool - Organic	1 / 7.442	- / -	- / -	2 / 12.850	- / -	2 / 12.850	1 / 7.387	1 / 7.025	1 / 7.144	1 / 7.265	Continuing	Continuing
1.1.3) Propulsor - ILS Parts - Organic	- / 5.945	- / 3.053	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.998
1.1.4) Misc. Insurance Spares (planes, rudders, etc.) - Organic	- / 1.025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.025
1.1.5) Misc. Rotatable Pool (fans, pumps, motors, etc.) - Organic	- / 3.750	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.750
<b>Subtotal Non-Recurring</b>	<b>1 / 190.782</b>	<b>- / 3.053</b>	<b>- / -</b>	<b>2 / 12.850</b>	<b>- / -</b>	<b>2 / 12.850</b>	<b>1 / 7.387</b>	<b>1 / 7.025</b>	<b>1 / 7.144</b>	<b>1 / 7.265</b>	<b>- / -</b>	<b>- / 186.393</b>
<b>Total, H1RC6 - Major Shore Spares</b>	<b>1 / 190.782</b>	<b>- / 3.053</b>	<b>- / -</b>	<b>2 / 12.850</b>	<b>- / -</b>	<b>2 / 12.850</b>	<b>1 / 7.387</b>	<b>1 / 7.025</b>	<b>1 / 7.144</b>	<b>1 / 7.265</b>	<b>Continuing</b>	<b>Continuing</b>
<b>Total Procurement, All Modifications</b>	<b>1 / 190.782</b>	<b>- / 3.053</b>	<b>- / -</b>	<b>2 / 12.850</b>	<b>- / -</b>	<b>2 / 12.850</b>	<b>1 / 7.387</b>	<b>1 / 7.025</b>	<b>1 / 7.144</b>	<b>1 / 7.265</b>	<b>- / -</b>	<b>- / -</b>
<b>Total Procurement and Support</b>	<b>190.782</b>	<b>3.053</b>	<b>-</b>	<b>12.850</b>	<b>-</b>	<b>12.850</b>	<b>7.387</b>	<b>7.025</b>	<b>7.144</b>	<b>7.265</b>	<b>-</b>	<b>-</b>
<b>Total Installation Cost</b>	<b>- / -</b>											
<b>Total Cost (Procurement + Support + Installation)</b>	<b>190.782</b>	<b>3.053</b>	<b>-</b>	<b>12.850</b>	<b>-</b>	<b>12.850</b>	<b>7.387</b>	<b>7.025</b>	<b>7.144</b>	<b>7.265</b>	<b>-</b>	<b>-</b>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy					<b>Date:</b> April 2013		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment			<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment			<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - H1RC6 - Major Shore Spares	
<b>Models of Systems Affected:</b> VA Class Submarine		<b>Type Modification:</b> Various			<b>Related RDT&amp;E PEs:</b>		
<b>Manufacturer Information: H1RC6 - Major Shore Spares</b>							
Manufacturer Name: Naval Foundary & Propeller Center - Spare Rotor <sup>(6)</sup>				Manufacturer Location: Philadelphia, PA			
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 32			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates			Feb 2014				
Delivery Dates			Aug 2016				
Manufacturer Name: Naval Foundary & Propeller Center-Hub Scoot Bar Set <sup>(7)</sup>				Manufacturer Location: Philadelphia, PA			
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 33			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates							
Delivery Dates							
Manufacturer Name: NRL <sup>(8)</sup>				Manufacturer Location: Key West, FL			
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 6			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates	Dec 2011						
Delivery Dates	Jun 2012						
Manufacturer Name: BAE Systems LP-Fasteners <sup>(9)</sup>				Manufacturer Location: Louisville, KY			
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 18			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates							
Delivery Dates							
Manufacturer Name: BAE Systems LP-SHIPALT HW <sup>(10)</sup>				Manufacturer Location: Louisville, KY			
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 17			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates	Dec 2011						
Delivery Dates	Apr 2013						
Manufacturer Name: BAE Systems LP-Spare Ropeguard <sup>(11)</sup>				Manufacturer Location: Louisville, KY			
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 18			

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy						<b>Date:</b> April 2013	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment			<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment			<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - H1RC6 - Major Shore Spares	
<b>Models of Systems Affected:</b> VA Class Submarine			<b>Type Modification:</b> Various			<b>Related RDT&amp;E PEs:</b>	
<b>Manufacturer Information: H1RC6 - Major Shore Spares</b>							
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates							
Delivery Dates							
Manufacturer Name: BAE Systems LP-Ropeguard Trailing Edge Kit <sup>(12)</sup>				Manufacturer Location: Louisville, KY			
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 18			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates							
Delivery Dates							
Manufacturer Name: BAE Systems LP-Snubber Shim Kit <sup>(13)</sup>				Manufacturer Location: Louisville, KY			
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 18			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates							
Delivery Dates							
Manufacturer Name: NSWC Carderock/ARL <sup>(14)</sup>				Manufacturer Location: Carderock, MD/State College, PA			
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 8			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates	Jan 2012						
Delivery Dates	Aug 2012						
Manufacturer Name: Electric Boat-CO-H2 Burner <sup>(15)</sup>				Manufacturer Location: Groton, CT			
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 15			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates							
Delivery Dates							
Manufacturer Name: Electric Boat-ILPE Blower/Motor <sup>(16)</sup>				Manufacturer Location: Groton, CT			
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 3			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates							

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy						<b>Date:</b> April 2013	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment			<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment			<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - H1RC6 - Major Shore Spares	
<b>Models of Systems Affected:</b> VA Class Submarine			<b>Type Modification:</b> Various			<b>Related RDT&amp;E PEs:</b>	
<b>Manufacturer Information: H1RC6 - Major Shore Spares</b>							
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Delivery Dates							
Manufacturer Name: Electric Boat-Sanitary Pump/Motor <sup>(17)</sup>				Manufacturer Location: Groton, CT			
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 7			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates							
Delivery Dates							
Manufacturer Name: Electric Boat-Misc <sup>(18)</sup>				Manufacturer Location: Groton, CT			
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 4			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates							
Delivery Dates							
Manufacturer Name: BAE Systems LP-SHIPALT Hardware <sup>(19)</sup>				Manufacturer Location: Louisville, KY			
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 12			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates							
Delivery Dates							
<b>Installation:</b> H1RC6 - Major Shore Spares			<b>Method of Implementation:</b> Not Installed - Propulsor - Rotatable Pool			<b>Installation Quantity:</b> 7	
<b>Footnotes:</b> <sup>(6)</sup> Spare Rotor <sup>(7)</sup> Hub Scoot Bar Set <sup>(8)</sup> Spare Anodes <sup>(9)</sup> Spare Fasteners <sup>(10)</sup> SHIPALT Hardware <sup>(11)</sup> Spare Ropeguard							

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment	<b>Modification Nomenclature</b> <i>(Modification Number - Modification Title):</i> 2 - H1RC6 - Major Shore Spares
<b>Models of Systems Affected:</b> VA Class Submarine	<b>Type Modification:</b> Various	<b>Related RDT&amp;E PEs:</b>
<ul style="list-style-type: none"> <li>(12) Ropeguard Trailing Edge Kit</li> <li>(13) Snubber Shim Kit</li> <li>(14) Hardware &amp; Engineering Services</li> <li>(15) CO-H2 Burner</li> <li>(16) ILPE Blower/Motor</li> <li>(17) Sanitary Pump/Motor</li> <li>(18) Miscellaneous</li> <li>(19) SHIPALT Hardware</li> </ul>		

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - H1RC8 - Intermediate & Depot (I&D) Support Equipment

**Models of Systems Affected:** VA Class Submarines      **Type Modification:** Various      **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	54.662	2.500	-	-	-	-	-	-	-	-	-	57.162
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	54.662	2.500	-	-	-	-	-	-	-	-	-	57.162
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>54.662</b>	<b>2.500</b>	-	-	-	-	-	-	-	-	-	<b>57.162</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Procures equipment and materials necessary to stock the Intermediate Maintenance Activity (IMA) and Depot support facilities. Materials are as large as a towed array or chin array and as small as valve and pump tools. Quantity is variable and would skew any attempt to determine a unit cost. There are no installation costs associated with this equipment.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - H1RC8 - Intermediate & Depot (I&D) Support Equipment

<b>Models of Systems Affected:</b> VA Class Submarines	<b>Type Modification:</b> Various	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
H1RC8 - Intermediate & Depot (I&D) Support Equipment												
B Kits												
Non-Recurring												
1.1.1) H1RC8 Prior Years - Organic	- / 46.334	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 46.334
1.1.2) Engine Room (Valve & Pump Tools, Shaft Equip) - Organic	- / 2.900	- / 1.430	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.330
1.1.3) Auxiliary Equipment & SHT Tools - Organic	- / 0.498	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.498
1.1.4) Weapons Equipment (VLS, MAC VPT, Torp Tube) - Organic	- / 2.730	- / 1.070	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.800
1.1.5) Sensors (Towed Array, Bow Done, Chin Array) - Organic	- / 2.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.200
<b>Subtotal Non-Recurring</b>	<b>- / 54.662</b>	<b>- / 2.500</b>	<b>- / -</b>	<b>- / 57.162</b>								
<b>Total, H1RC8 - Intermediate &amp; Depot (I&amp;D) Support Equipment</b>	<b>- / 54.662</b>	<b>- / 2.500</b>	<b>- / -</b>	<b>- / 57.162</b>								
<b>Total Procurement, All Modifications</b>	<b>- / 54.662</b>	<b>- / 2.500</b>	<b>- / -</b>	<b>- / 57.162</b>								
<b>Total Procurement and Support</b>	<b>54.662</b>	<b>2.500</b>	<b>-</b>	<b>57.162</b>								
<b>Total Installation Cost</b>	<b>- / -</b>											
<b>Total Cost (Procurement + Support + Installation)</b>	<b>54.662</b>	<b>2.500</b>	<b>-</b>	<b>57.162</b>								

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy					<b>Date:</b> April 2013		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment			<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment			<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - H1RC8 - Intermediate & Depot (I&D) Support Equipment	
<b>Models of Systems Affected:</b> VA Class Submarines		<b>Type Modification:</b> Various			<b>Related RDT&amp;E PEs:</b>		
<b>Manufacturer Information: H1RC8 - Intermediate &amp; Depot (I&amp;D) Support Equipment</b>							
Manufacturer Name: NUWC Newport/Oceaneering <sup>(20)</sup>				Manufacturer Location: Newport, RI/Chesapeake, VA			
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 3			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates	Nov 2011						
Delivery Dates	Jan 2012						
Manufacturer Name: NUWC Newport/Oceaneering-Weapons Equip <sup>(21)</sup>				Manufacturer Location: Newport, RI/Chesapeake, VA			
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 8			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates	Jan 2012						
Delivery Dates	Aug 2012						
Manufacturer Name: NUWC Newport/Oceaneering-Sensors <sup>(22)</sup>				Manufacturer Location: Newport, RI/Chesapeake, VA			
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 8			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates							
Delivery Dates							
<b>Installation:</b> H1RC8 - Intermediate & Depot (I&D) Support Equipment		<b>Method of Implementation:</b> No Quantities Associated with Install			<b>Installation Quantity:</b> 0		
<b>Footnotes:</b> <sup>(20)</sup> Engine Room and Auxiliary Equipment & SHT Tools <sup>(21)</sup> Weapons Equipment <sup>(22)</sup> Sensors							

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - HRC11 - VA Class Support Equipment

<b>Models of Systems Affected:</b> VA Class Submarines	<b>Type Modification:</b> Various	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	16.563	5.100	3.182	-	-	-	-	-	-	-	-	24.845
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	16.563	5.100	3.182	-	-	-	-	-	-	-	-	24.845
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>16.563</b>	<b>5.100</b>	<b>3.182</b>	-	-	-	-	-	-	-	-	<b>24.845</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Procures materials necessary to establish In-Service Engineering Agents (ISEA) lab assets. There are no installation costs associated with this material.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - HRC11 - VA Class Support Equipment

<b>Models of Systems Affected:</b> VA Class Submarines	<b>Type Modification:</b> Various	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
HRC11 - VA Class Support Equipment												
B Kits												
Non-Recurring												
1.1.2) HRC11 Prior Years - Organic	- / 12.185	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.185
1.1.3) Thin Line Towed Array Handling System Tester - Organic	- / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.400
1.1.4) Main Shaft/Propulsion Change Out - Organic	- / 2.178	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.178
1.1.8) Weapon and Launcher Test Set - Organic	- / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.300
<b>Subtotal Non-Recurring</b>	- / 15.063	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.063
<i>Total, HRC11 - VA Class Support Equipment</i>	- / 15.063	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.063
<b>Total Procurement, All Modifications</b>	- / 15.063	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.063
<b>Support</b>												
2.1) Light Weight Wide Aperture Array Lab	- / 0.500	- / 1.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.300
2.2) MK71 Tube Support Facility	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
2.3) VA Payload Tube Lab/Facility	- / 1.000	- / 2.700	- / 3.182	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.882
2.4) Multiple Lab/Facility Upgrade	- / -	- / 0.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.600
<b>Total Support, All Modifications</b>	1.500	5.100	3.182	-	-	-	-	-	-	-	-	9.782
<b>Total Procurement and Support</b>	16.563	5.100	3.182	-	-	-	-	-	-	-	-	24.845
<b>Total Installation Cost</b>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total Cost (Procurement + Support + Installation)</b>	16.563	5.100	3.182	-	-	-	-	-	-	-	-	24.845

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy						<b>Date:</b> April 2013	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment			<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment			<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - HRC11 - VA Class Support Equipment	
<b>Models of Systems Affected:</b> VA Class Submarines			<b>Type Modification:</b> Various			<b>Related RDT&amp;E PEs:</b>	
<b>Manufacturer Information: HRC11 - VA Class Support Equipment</b>							
Manufacturer Name: Electric Boat/NUWC Newport <sup>(23)</sup>					Manufacturer Location: Groton, CT/Newport, RI		
Administrative Leadtime ( <i>in Months</i> ): 0					Production Leadtime ( <i>in Months</i> ): 3		
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates	Nov 2011						
Delivery Dates	Jan 2012						
Manufacturer Name: Electric Boat <sup>(24)</sup>					Manufacturer Location: Groton, CT		
Administrative Leadtime ( <i>in Months</i> ): 0					Production Leadtime ( <i>in Months</i> ): 3		
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates		Jan 2013					
Delivery Dates		Mar 2013					
<b>Installation: HRC11 - VA Class Support Equipment</b>							
<b>Method of Implementation:</b> No Quantities Associated with Install			<b>Installation Quantity:</b> 0				
<b>Footnotes:</b> <sup>(23)</sup> ISEA Labs Material <sup>(24)</sup> VA Payload Tube Lab/Facility							

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 5 - HRC13 - Hotel Services

<b>Models of Systems Affected:</b> VA Class Submarines			<b>Type Modification:</b> Various				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	106.447	43.038	38.613	22.632	-	22.632	10.135	-	11.777	4.828	-	237.470
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	106.447	43.038	38.613	22.632	-	22.632	10.135	-	11.777	4.828	-	237.470
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>106.447</b>	<b>43.038</b>	<b>38.613</b>	<b>22.632</b>	<b>-</b>	<b>22.632</b>	<b>10.135</b>	<b>-</b>	<b>11.777</b>	<b>4.828</b>	<b>-</b>	<b>237.470</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Provides procurement of materials necessary to modernize VIRGINIA Class Submarine infrastructure (i.e. power, cabling, cooling, and arrangements of the ship for the entire Government Furnished Equipment (GFE)/ CFE NPES configuration). This combination of Hull, Mechanical and Electrical (HM&E) alterations to VIRGINIA Class submarines is collectively referred to as the "Hotel Services" modification. This Hotel Service modification is necessary to accommodate modernization to major combat system alterations (i.e. A-RCI, AN/BYG-1, and ISIS) and are completed concurrently with those major combat system alterations. T1-02 baseline systems Hotel Services modernizations are completed during Post Shakedown Availability (PSA) for SSN777 and SSN779-783 and during EDSRA or TOA for SSN774-SSN776 and SSN778.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 5 - HRC13 - Hotel Services

<b>Models of Systems Affected:</b> VA Class Submarines	<b>Type Modification:</b> Various	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
HRC13 - Hotel Services												
A Kits												
Non-Recurring												
1.1.1) Design - Organic	- / 26.637	- / 4.836	- / -	- / 2.760	- / -	- / 2.760	- / -	- / -	- / 1.595	- / -	- / -	- / 35.828
1.1.2) TI-02 Baseline Upgrade - NonOrganic	5 / 46.087	2 / 19.101	2 / 19.307	- / -	- / -	- / -	1 / 10.135	- / -	- / -	1 / -	- / -	11 / 94.630
1.1.3) Hotel Services NRE (Block IV) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.828	- / -	- / 4.828
<i>Subtotal Non-Recurring</i>	5 / 72.724	2 / 23.937	2 / 19.307	- / 2.760	- / -	- / 2.760	1 / 10.135	- / -	- / 1.595	1 / 4.828	- / -	11 / 135.286
<i>Total, HRC13 - Hotel Services</i>	5 / 72.724	2 / 23.937	2 / 19.307	- / 2.760	- / -	- / 2.760	1 / 10.135	- / -	- / 1.595	1 / 4.828	- / -	11 / 135.286
<i>Total Procurement, All Modifications</i>	5 / 72.724	2 / 23.937	2 / 19.307	- / 2.760	- / -	- / 2.760	1 / 10.135	- / -	- / 1.595	1 / 4.828	- / -	11 / 135.286
<i>Total Procurement and Support</i>	72.724	23.937	19.307	2.760	-	2.760	10.135	-	1.595	4.828	-	135.286
HRC13 - Hotel Services Installation Cost	- / 33.723	- / 19.101	- / 19.306	- / 19.872	- / -	- / 19.872	- / -	- / -	- / 10.182	- / -	- / -	- / 102.184
<i>Total Installation Cost</i>	- / 33.723	- / 19.101	- / 19.306	- / 19.872	- / -	- / 19.872	- / -	- / -	- / 10.182	- / -	- / -	- / 102.184
<b>Total Cost (Procurement + Support + Installation)</b>	<b>106.447</b>	<b>43.038</b>	<b>38.613</b>	<b>22.632</b>	<b>-</b>	<b>22.632</b>	<b>10.135</b>	<b>-</b>	<b>11.777</b>	<b>4.828</b>	<b>-</b>	<b>237.470</b>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment		<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment
		<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 5 - HRC13 - Hotel Services

<b>Models of Systems Affected:</b> VA Class Submarines	<b>Type Modification:</b> Various	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: HRC13 - Hotel Services**

Manufacturer Name: Electric Boat-VA Platform Mod <sup>(25)</sup>	Manufacturer Location: Groton, CT
Administrative Leadtime ( <i>in Months</i> ): 0	Production Leadtime ( <i>in Months</i> ): 10

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Mar 2012	Mar 2013					
Delivery Dates	Dec 2012	Dec 2013					

**Manufacturer Information: Electric Boat-Design Organic <sup>(26)</sup>**

Manufacturer Name: Electric Boat-Design Organic <sup>(26)</sup>	Manufacturer Location: Groton, CT
Administrative Leadtime ( <i>in Months</i> ): 0	Production Leadtime ( <i>in Months</i> ): 3

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates			Mar 2014				
Delivery Dates			Jun 2014				

**Installation: HRC13 - Hotel Services**      **Method of Implementation: AIT**      **Installation Name: TI-02 Baseline Upgrade**

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	3 / 33.723	2 / 19.101	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 52.824
FY 2012	- / -	- / -	2 / 19.306	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 19.306
FY 2013	- / -	- / -	- / -	2 / 19.872	- / -	2 / 19.872	- / -	- / -	- / -	- / -	- / -	2 / 19.872
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 10.182	- / -	- / -	1 / 10.182
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	3 / 33.723	2 / 19.101	2 / 19.306	2 / 19.872	- / -	2 / 19.872	- / -	- / -	1 / 10.182	- / -	- / -	10 / 102.184

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot	
		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	-	1	1	-	1	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	10
Out	4	-	1	-	-	-	1	2	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment	<b>Modification Nomenclature</b> <i>(Modification Number - Modification Title):</i> 5 - HRC13 - Hotel Services
<b>Models of Systems Affected:</b> VA Class Submarines	<b>Type Modification:</b> Various	<b>Related RDT&amp;E PEs:</b>
<b>Footnotes:</b> (25) VA Platform Modernization TI-02 Baseline Upgrade (26) VA Platform Modernization - Design Organic		

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 6 - HRC13 - Infrastructure Upgrades

<b>Models of Systems Affected:</b> VA Class Submarines			<b>Type Modification:</b> Various				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	1.307	18.643	-	18.643	24.085	17.931	6.444	13.744	-	82.154
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	1.307	18.643	-	18.643	24.085	17.931	6.444	13.744	-	82.154
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	-	<b>1.307</b>	<b>18.643</b>	-	<b>18.643</b>	<b>24.085</b>	<b>17.931</b>	<b>6.444</b>	<b>13.744</b>	-	<b>82.154</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Provides procurement of materials necessary to modernize VIRGINIA Class unique Contractor Furnished Equipment (CFE) to sustain interfaces and technology baseline with the connecting Government Furnished sub-systems contained in the Non-Propulsion Electronics System suite. These sub-systems include; Portable Ship Control System (PSCS), Total Ship Monitoring System, Circuit D, Ship Control System, Light Weight Wide Aperture Array and Interior Communication System. Costs increase in FY2014 due to procurements and installation costs.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy										<b>Date:</b> April 2013			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment				<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment						<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 6 - HRC13 - Infrastructure Upgrades			
<b>Models of Systems Affected:</b> VA Class Submarines				<b>Type Modification:</b> Various				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)				
<b>Procurement</b>													
HRC13 - Infrastructure Upgrades													
A Kits													
Recurring													
1.1.1) Design - Organic	- / -	- / -	- / 1.307	- / 1.656	- / -	- / 1.656	- / 1.689	- / 2.495	- / -	- / 1.793	- / -	- / 8.940	
<i>Subtotal Recurring</i>	- / -	- / -	- / 1.307	- / 1.656	- / -	- / 1.656	- / 1.689	- / 2.495	- / -	- / 1.793	- / -	- / 8.940	
Non-Recurring													
1.2.1) Infrastructure Updates (from TI-08 and beyond baseline) - NonOrganic	- / -	- / -	- / -	2 / 12.019	- / -	2 / 12.019	3 / 17.329	- / -	1 / 6.444	1 / 6.573	- / -	7 / 42.365	
<i>Subtotal Non-Recurring</i>	- / -	- / -	- / -	2 / 12.019	- / -	2 / 12.019	3 / 17.329	- / -	1 / 6.444	1 / 6.573	- / -	7 / 42.365	
<i>Total, HRC13 - Infrastructure Upgrades</i>	- / -	- / -	- / 1.307	2 / 13.675	- / -	2 / 13.675	3 / 19.018	- / 2.495	1 / 6.444	1 / 8.366	- / -	7 / 51.305	
<i>Total Procurement, All Modifications</i>	- / -	- / -	- / 1.307	2 / 13.675	- / -	2 / 13.675	3 / 19.018	- / 2.495	1 / 6.444	1 / 8.366	- / -	7 / 51.305	
<i>Total Procurement and Support</i>	-	-	1.307	13.675	-	13.675	19.018	2.495	6.444	8.366	-	51.305	
HRC13 - Infrastructure Upgrades Installation Cost	- / 0.000	- / -	- / -	- / 4.968	- / -	- / 4.968	- / 5.067	- / 15.436	- / -	- / 5.378	- / -	- / 30.849	
<i>Total Installation Cost</i>	- / 0.000	- / -	- / -	- / 4.968	- / -	- / 4.968	- / 5.067	- / 15.436	- / -	- / 5.378	- / -	- / 30.849	
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	<b>-</b>	<b>1.307</b>	<b>18.643</b>	<b>-</b>	<b>18.643</b>	<b>24.085</b>	<b>17.931</b>	<b>6.444</b>	<b>13.744</b>	<b>-</b>	<b>82.154</b>	

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 6 - HRC13 - Infrastructure Upgrades

<b>Models of Systems Affected:</b> VA Class Submarines	<b>Type Modification:</b> Various	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: HRC13 - Infrastructure Upgrades**

Manufacturer Name: Electric Boat-Infrastructure Upgrades <sup>(27)</sup>	Manufacturer Location: Groton, CT
Administrative Leadtime ( <i>in Months</i> ): 0	Production Leadtime ( <i>in Months</i> ): 10

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates			Jan 2014				
Delivery Dates			Oct 2014				

**Manufacturer Name:** Electric Boat-Infrastrucutre Upgrades Design <sup>(28)</sup>

Manufacturer Name: Electric Boat-Infrastrucutre Upgrades Design <sup>(28)</sup>	Manufacturer Location: Groton, CT
Administrative Leadtime ( <i>in Months</i> ): 0	Production Leadtime ( <i>in Months</i> ): 3

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates		Jan 2013					
Delivery Dates		Mar 2013					

<b>Installation:</b> HRC13 - Infrastructure Upgrades	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> Infrastructure Updates (from TI-08 and beyond baseline)
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	1 / 4.968	- / -	1 / 4.968	1 / 5.067	- / -	- / -	- / -	- / -	2 / 10.035
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 15.436	- / -	- / -	- / -	3 / 15.436
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.378	- / -	1 / 5.378
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	- / -	- / -	- / -	1 / 4.968	- / -	1 / 4.968	1 / 5.067	3 / 15.436	- / -	1 / 5.378	- / -	6 / 30.849

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 6 - HRC13 - Infrastructure Upgrades

<b>Models of Systems Affected:</b> VA Class Submarines	<b>Type Modification:</b> Various	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> HRC13 - Infrastructure Upgrades	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> Infrastructure Updates (from TI-08 and beyond baseline)
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<b>Installation Schedule</b>																															
	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	-	-	1	-	-	1	2	-	-	-	-	-	-	1	-	-	6	
Out	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	1	2	-	-	-	-	-	-	-	1	-	6

**Footnotes:**  
 (27) Infrastructure Upgrades from TI-08 and beyond baseline  
 (28) Infrastructure Upgrades Design

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 7 - HRC13 - Non-Tactical Data Processing System

<b>Models of Systems Affected:</b> VA Class Submarine	<b>Type Modification:</b> Various	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	5.044	5.135	5.227	5.313	-	5.313	5.402	5.510	5.604	5.699	-	42.934
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	5.044	5.135	5.227	5.313	-	5.313	5.402	5.510	5.604	5.699	-	42.934
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>5.044</b>	<b>5.135</b>	<b>5.227</b>	<b>5.313</b>	<b>-</b>	<b>5.313</b>	<b>5.402</b>	<b>5.510</b>	<b>5.604</b>	<b>5.699</b>	<b>-</b>	<b>42.934</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Provides software and hardware updates, software licenses and technical and logistics support to the NTDPS. There is no FMP installation associated with these materials.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 7 - HRC13 - Non-Tactical Data Processing System

<b>Models of Systems Affected:</b> VA Class Submarine	<b>Type Modification:</b> Various	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
HRC13 - Non-Tactical Data Processing System												
B Kits												
Non-Recurring												
1.1.1) NTDPS Software - Organic	- / 5.044	- / 5.135	- / 5.227	- / 5.313	- / -	- / 5.313	- / 5.402	- / 5.510	- / 5.604	- / 5.699	- / -	- / 42.934
<i>Subtotal Non-Recurring</i>	- / 5.044	- / 5.135	- / 5.227	- / 5.313	- / -	- / 5.313	- / 5.402	- / 5.510	- / 5.604	- / 5.699	- / -	- / 42.934
<i>Total, HRC13 - Non-Tactical Data Processing System</i>	- / 5.044	- / 5.135	- / 5.227	- / 5.313	- / -	- / 5.313	- / 5.402	- / 5.510	- / 5.604	- / 5.699	- / -	- / 42.934
<b>Total Procurement, All Modifications</b>	- / 5.044	- / 5.135	- / 5.227	- / 5.313	- / -	- / 5.313	- / 5.402	- / 5.510	- / 5.604	- / 5.699	- / -	- / 42.934
<b>Total Procurement and Support</b>	5.044	5.135	5.227	5.313	-	5.313	5.402	5.510	5.604	5.699	-	42.934
<b>Total Installation Cost</b>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total Cost (Procurement + Support + Installation)</b>	5.044	5.135	5.227	5.313	-	5.313	5.402	5.510	5.604	5.699	-	42.934

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy					<b>Date:</b> April 2013			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment				<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment			<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 7 - HRC13 - Non-Tactical Data Processing System	
<b>Models of Systems Affected:</b> VA Class Submarine			<b>Type Modification:</b> Various		<b>Related RDT&amp;E PEs:</b>			
<b>Manufacturer Information: HRC13 - Non-Tactical Data Processing System</b>								
Manufacturer Name: Progeny Systems				Manufacturer Location: Manassas, VA				
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 10				
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	
Contract Dates	Mar 2012	Mar 2013	Mar 2014					
Delivery Dates	Dec 2012	Dec 2013	Dec 2014					
Manufacturer Name: Progeny Systems				Manufacturer Location: Manassas, VA				
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 3				
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	
Contract Dates								
Delivery Dates								
<b>Installation:</b> HRC13 - Non-Tactical Data Processing System			<b>Method of Implementation:</b> No Quantities Associated with Install		<b>Installation Quantity:</b> 0			

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment		<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment
		<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 8 - HRC13 - SHIPALT SA4612K

<b>Models of Systems Affected:</b> VA Class Submarine			<b>Type Modification:</b> K Alt				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	9.338	0.032	11.966	-	-	-	-	-	-	-	-	21.336
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	9.338	0.032	11.966	-	-	-	-	-	-	-	-	21.336
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>9.338</b>	<b>0.032</b>	<b>11.966</b>	-	-	-	-	-	-	-	-	<b>21.336</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

HM&E and CFE NPES Modernization develops alteration design documentation, alteration material procurement and kitting, alteration planning and execution for various in-service VA Class submarines. It does not include HSWG and PARM sponsored alterations. Alteration SA4612K removes the damping tile restraining layer from all Main Ballast Tanks (MBTs) and external free flood areas to prevent blockage of the MBT grates.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 8 - HRC13 - SHIPALT SA4612K

<b>Models of Systems Affected:</b> VA Class Submarine	<b>Type Modification:</b> K Alt	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
HRC13 - SHIPALT SA4612K												
B Kits												
Non-Recurring												
1.1.1) SHIPALT SA4612K - NonOrganic	1 / 0.101	1 / 0.032	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.133
<i>Subtotal Non-Recurring</i>	1 / 0.101	1 / 0.032	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.133
<i>Total, HRC13 - SHIPALT SA4612K</i>	1 / 0.101	1 / 0.032	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.133
<i>Total Procurement, All Modifications</i>	1 / 0.101	1 / 0.032	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.133
<b>Total Procurement and Support</b>	0.101	0.032	-	-	-	-	-	-	-	-	-	0.133
HRC13 - SHIPALT SA4612K Installation Cost	- / 9.237	- / -	- / 11.966	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 21.203
<i>Total Installation Cost</i>	- / 9.237	- / -	- / 11.966	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 21.203
<b>Total Cost (Procurement + Support + Installation)</b>	9.338	0.032	11.966	-	-	-	-	-	-	-	-	21.336

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 8 - HRC13 - SHIPALT SA4612K

<b>Models of Systems Affected:</b> VA Class Submarine	<b>Type Modification:</b> K Alt	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information:</b> HRC13 - SHIPALT SA4612K	
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Manufacturer Name: Manufacturer Name Not Provided.	Manufacturer Location: Manufacturer Location Not Provided.
Administrative Leadtime ( <i>in Months</i> ):	Production Leadtime ( <i>in Months</i> ):

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates							
Delivery Dates							

<b>Installation:</b> HRC13 - SHIPALT SA4612K	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> SHIPALT SA4612K
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	1 / 9.237	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 9.237
FY 2012	- / -	- / -	1 / 11.966	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 11.966
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 9.237	- / -	1 / 11.966	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 21.203

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 9 - HRC13 - Ship Control System (SCS) Modernization Backfit

<b>Models of Systems Affected:</b> VA Class Submarines	<b>Type Modification:</b> Various	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	7.000	-	0.755	5.800	-	5.800	4.500	4.600	4.600	1.200	-	28.455
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	7.000	-	0.755	5.800	-	5.800	4.500	4.600	4.600	1.200	-	28.455
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>7.000</b>	-	<b>0.755</b>	<b>5.800</b>	-	<b>5.800</b>	<b>4.500</b>	<b>4.600</b>	<b>4.600</b>	<b>1.200</b>	-	<b>28.455</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Procure and install obsolescence redesign for Ship Control System (SCS) on Block I and II. The material procurement in FY14-17 includes long lead items for four shipsets for backfit (SSN776-SSN779).

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 9 - HRC13 - Ship Control System (SCS) Modernization Backfit

<b>Models of Systems Affected:</b> VA Class Submarines	<b>Type Modification:</b> Various	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
HRC13 - Ship Control System (SCS) Modernization Backfit												
A Kits												
Non-Recurring												
1.1.1) Modification Non-Recurring - Organic	- / 3.300	- / -	- / -	- / 2.000	- / -	- / 2.000	- / -	- / -	- / -	- / -	- / -	- / 5.300
<i>Subtotal Non-Recurring</i>	- / 3.300	- / -	- / -	- / 2.000	- / -	- / 2.000	- / -	- / -	- / -	- / -	- / -	- / 5.300
B Kits												
Non-Recurring												
2.1.1) Material and Install - NonOrganic	1 / 3.700	- / -	- / -	1 / 3.800	- / -	1 / 3.800	1 / 3.400	1 / 3.500	1 / 3.500	- / -	- / -	5 / 17.900
<i>Subtotal Non-Recurring</i>	1 / 3.700	- / -	- / -	1 / 3.800	- / -	1 / 3.800	1 / 3.400	1 / 3.500	1 / 3.500	- / -	- / -	5 / 17.900
<i>Total, HRC13 - Ship Control System (SCS) Modernization Backfit</i>	1 / 7.000	- / -	- / -	1 / 5.800	- / -	1 / 5.800	1 / 3.400	1 / 3.500	1 / 3.500	- / -	- / -	5 / 23.200
<i>Total Procurement, All Modifications</i>	1 / 7.000	- / -	- / -	1 / 5.800	- / -	1 / 5.800	1 / 3.400	1 / 3.500	1 / 3.500	- / -	- / -	5 / 23.200
<i>Total Procurement and Support</i>	7.000	-	-	5.800	-	5.800	3.400	3.500	3.500	-	-	23.200
HRC13 - Ship Control System (SCS) Modernization Backfit Installation Cost	- / 0.000	- / -	- / 0.755	- / -	- / -	- / -	- / 1.100	- / 1.100	- / 1.100	- / 1.200	- / -	- / 5.255
<i>Total Installation Cost</i>	- / 0.000	- / -	- / 0.755	- / -	- / -	- / -	- / 1.100	- / 1.100	- / 1.100	- / 1.200	- / -	- / 5.255
<b>Total Cost (Procurement + Support + Installation)</b>	<b>7.000</b>	<b>-</b>	<b>0.755</b>	<b>5.800</b>	<b>-</b>	<b>5.800</b>	<b>4.500</b>	<b>4.600</b>	<b>4.600</b>	<b>1.200</b>	<b>-</b>	<b>28.455</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0942 - Virginia Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 9 - HRC13 - Ship Control System (SCS) Modernization Backfit

<b>Models of Systems Affected:</b> VA Class Submarines	<b>Type Modification:</b> Various	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: HRC13 - Ship Control System (SCS) Modernization Backfit**

Manufacturer Name: Electric Boat-Procurement <sup>(29)</sup>				Manufacturer Location: Groton, CT			
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 13			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates			Nov 2013				
Delivery Dates			Nov 2014				

Manufacturer Name: Electric Boat-Install <sup>(30)</sup>				Manufacturer Location: Groton, CT			
Administrative Leadtime ( <i>in Months</i> ): 0				Production Leadtime ( <i>in Months</i> ): 3			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates		Jan 2013					
Delivery Dates		Apr 2013					

<b>Installation: HRC13 - Ship Control System (SCS) Modernization Backfit</b>	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> Material and Install
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	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	0 / 0.755	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.755
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.100	- / -	- / -	- / -	- / -	1 / 1.100
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.100	- / -	- / -	- / -	1 / 1.100
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.100	- / -	- / -	1 / 1.100
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.200	- / -	1 / 1.200
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	- / -	- / -	- / 0.755	- / -	- / -	- / -	1 / 1.100	1 / 1.100	1 / 1.100	1 / 1.200	- / -	4 / 5.255



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**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0944 - LCS Class Support Equipment

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	-	19.865	47.078	-	47.078	42.769	43.040	64.300	63.394	-	280.446
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	-	19.865	47.078	-	47.078	42.769	43.040	64.300	63.394	-	280.446
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>0.000</b>	<b>-</b>	<b>19.865</b>	<b>47.078</b>	<b>-</b>	<b>47.078</b>	<b>42.769</b>	<b>43.040</b>	<b>64.300</b>	<b>63.394</b>	<b>-</b>	<b>280.446</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	0.520	0.457	-	0.457	0.976	1.106	1.901	1.935	Continuing	Continuing
Flyaway Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

This budget provides for the procurement of long-lead major end items required for Littoral Combat Ship (LCS) construction and repairs, for both variants of ships, while production lines are still active. Spares procurement mitigates major long-lead replacement times due to unplanned system failures and increases operability of vital fleet assets.

Item Schedule		Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
LCS Class Support Equipment	P40A, P5A, P21				0.000			-			19.865			47.078			-			47.078
<b>Total Gross/Weapon System Cost</b>					<b>0.000</b>			<b>-</b>			<b>19.865</b>			<b>47.078</b>			<b>-</b>			<b>47.078</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

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LN001 - LCS Battle Spares

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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment		<b>P-1 Line Item Nomenclature:</b> 0944 - LCS Class Support Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
<b>MDAP/MAIS Code(s):</b> <p>This line procures battle spares to ensure their availability in the event of a catastrophe, failure, or major casualty to key systems. Systems exacting shore based spares include gas turbines, diesel engines and generators, propulsion waterjets and waterjet tunnels, reduction gears, auxiliary power unit (APU), and machinery plant control &amp; monitoring system (MPCMS). Spares are determined using the LCS Reliability, Maintainability, Availability (RMA) Plan, NAVSEA RMA guidance, critical application of equipment, and vendor data.</p> <p>LN002 - LCS Water jet Spares The LCS class ships are propelled by waterjets (WJ). These items are designed to be removable and repaired at a depot. This line procures WJ units and the major WJ component, Impeller. These items will be designated 2S cog material and support a rotatable pool for life cycle sustainment. There are two LCS hull designs, Freedom Variant and Independence Variant, both composed of four (4) WJs. The Freedom Variant uses Rolls-Royce WJs and the Independence Variant uses Wartsila Lips WJs. Note: the waterjet assemblies are mounted externally on the ships transom.</p>		

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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0944 - LCS Class Support Equipment

**Aggregated Item Name:**  
LCS Class Support Equipment

Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) LN001 LCS Battle Spares</b>																				
† 1.1) MAIN PROPULSION DIESEL ENGINE (INDEPENDENCE VARIANT)	A		-	-	-	-	-	-	-	-	-	5,200K	1	5.200	-	-	-	5,200K	1	5.200
† 1.2) MT-30 GAS TURBINE ENGINE (FREEDOM VARIANT)	A		-	-	-	-	-	14,315K	1	14.315	-	-	-	-	-	-	-	-	-	-
† 1.3) SHIPS SERVICE DIESEL GENERATOR (INDEPENDENCE VARIANT)	A		-	-	-	-	-	-	-	-	-	1,000K	2	2.000	-	-	-	1,000K	2	2.000
† 1.4) LAUNCH, RECOVERY, AND HANDLING SYSTEM (FREEDOM VARIANT)	A		-	-	-	-	-	-	-	-	-	3,400K	1	3.400	-	-	-	3,400K	1	3.400
† 1.5) INTEGRATED BRIDGE SYSTEM	A		-	-	-	-	-	-	-	-	-	900,000.00	1	0.900	-	-	-	900,000.00	1	0.900
1.6) MAIN PROPULSION HM&E EQUIPMENT	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 1.7) MT-30 GAS TURBINE ENGINE ANCILLARY EQUIPMENT (FREEDOM VARIANT)	A		-	-	-	-	-	-	-	-	-	3,800K	1	3.800	-	-	-	3,800K	1	3.800
1.8) MAIN PROP. CONTRL & MONITORING SYS (MPCMS)/ ENGINEERING CONTRL SYS (ECS)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.9) TWIN-BOOM EXPANDABLE CRANE (INDEPENDENCE VARIANT)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.10) TRS-3D RADAR (FREEDOM VARIANT)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.11) SEA GIRAFFE 3D RADAR (INDEPENDENCE VARIANT)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.12) MULT. AIRCRAFT NOSE & TAILGEAR INTEGRATED SYS	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0944 - LCS Class Support Equipment

**Aggregated Item Name:**  
LCS Class Support Equipment

Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
(INDEPENDENCE VAR)																				
† 1.13) REDUCTION GEAR (FREEDOM VARIANT)	A		-	-	-	-	-	-	-	-	12,350K	1	12.350	-	-	-	12,350K	1	12.350	
1.14) REDUCTION GEAR (INDEPENDENCE VARIANT)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.15) ELECTRONIC SUPPORT MEASURES	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
† 1.16) AUXILIARY POWER UNIT	A		-	-	-	-	-	-	-	-	1,500K	1	1.500	-	-	-	1,500K	1	1.500	
† 1.17) MAIN PROPULSION DIESEL ENGINE (FREEDOM VARIANT)	A		-	-	-	-	-	-	-	-	5,299K	1	5.299	-	-	-	5,299K	1	5.299	
† 1.18) WATERJET TUNNELS	A		-	-	-	-	-	-	-	-	1,000K	1	1.000	-	-	-	1,000K	1	1.000	
† 1.19) SHIPS SERVICE DIESEL GENERATOR (FREEDOM VARIANT)	A		-	-	-	-	-	-	-	-	1,700K	1	1.700	-	-	-	1,700K	1	1.700	
<i>Subtotal 1) LN001 LCS Battle Spares</i>					0.000						14.315		37.149						37.149	
<b>2) LN002 LCS Water jet Spares</b>																				
† 2.1) WATERJET ASSEMBLY (FREEDOM VARIANT)	A		-	-	-	-	-	-	2,043K	2	4.086	2,311K	3	6.933	-	-	-	2,311K	3	6.933
† 2.2) WATERJET IMPELLER (INDEPENDENCE VARIANT)	A		-	-	-	-	-	-	732,000.00	2	1.464	749,000.00	4	2.996	-	-	-	749,000.00	4	2.996
<i>Subtotal 2) LN002 LCS Water jet Spares</i>					-						5.550		9.929						9.929	
<b>Total</b>					<b>0.000</b>						<b>19.865</b>		<b>47.078</b>						<b>47.078</b>	

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Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Navy										Date: April 2013		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment				P-1 Line Item Nomenclature: 0944 - LCS Class Support Equipment				Aggregated Item Name: LCS Class Support Equipment				
Items († indicates the presence of a P-21)	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>1) LN001 LCS Battle Spares</b>												
†1.1) MAIN PROPULSION DIESEL ENGINE (INDEPENDENCE VARIANT)		2014	MTU / GERMANY	C / FFP	NAVSEA	May 2014	May 2015	1	5,200K	Y		Nov 2013
†1.2) MT-30 GAS TURBINE ENGINE (FREEDOM VARIANT)		2013	ROLLS ROYCE / WALEPOLE, MA	C / FFP	NAVSEA	May 2013	May 2015	1	14,315K	Y		Nov 2012
1.3) SHIPS SERVICE DIESEL GENERATOR (INDEPENDENCE VARIANT)		2014	MTU / GERMANY	C / FFP	NAVSEA	May 2014	May 2015	2	1,000K	Y		Nov 2013
1.4) LAUNCH, RECOVERY, AND HANDLING SYSTEM (FREEDOM VARIANT)		2014	Lockheed Martin / MD	C / FFP	NAVSEA	May 2014	May 2015	1	3,400K	Y		Nov 2013
1.5) INTEGRATED BRIDGE SYSTEM		2014	SPERRY / Charlottesville, Va	C / FFP	NAVSEA	May 2014	May 2015	1	900,000.00	Y		Nov 2013
1.7) MT-30 GAS TURBINE ENGINE ANCILLARY EQUIPMENT (FREEDOM VARIANT)		2014	ROLLS ROYCE / WALEPOLE, MA	C / FFP	NAVSEA	May 2014	May 2016	1	3,800K	Y		Nov 2013
†1.13) REDUCTION GEAR (FREEDOM VARIANT)		2014	Lockheed Martin / MD	C / FFP	NAVSEA	May 2014	May 2015	1	12,350K	Y		Nov 2013
1.16) AUXILLARY POWER UNIT		2014	Lockheed Martin / MD	C / FFP	NAVSEA	May 2014	May 2015	1	1,500K	Y		Nov 2013
†1.17) MAIN PROPULSION DIESEL ENGINE (FREEDOM VARIANT)		2014	Lockheed Martin / MD	C / FFP	NAVSEA	May 2014	May 2015	1	5,299K	Y		Nov 2013
†1.18) WATERJET TUNNELS		2014	ROLLS ROYCE / WALEPOLE, MA	C / FFP	NAVSEA	May 2014	May 2015	1	1,000K	Y		Nov 2013
†1.19) SHIPS SERVICE DIESEL GENERATOR (FREEDOM VARIANT)		2014	Fincantieri / Washington, DC	C / FFP	NAVSEA	May 2014	May 2015	1	1,700K	Y		Nov 2013
<b>2) LN002 LCS Water jet Spares</b>												
†2.1) WATERJET ASSEMBLY (FREEDOM VARIANT)		2013	Rolls Royce / MS	C / FFP	NAVSUP/ WSS	May 2013	May 2015	2	2,043K	Y		Nov 2012
†2.1) WATERJET ASSEMBLY (FREEDOM VARIANT)		2014	Rolls Royce / MS	C / FFP	NAVSUP/ WSS	May 2014	May 2016	3	2,311K	Y		Nov 2013
†2.2) WATERJET IMPELLER (INDEPENDENCE VARIANT)		2013	Wartsilla / VA	C / FFP	NAVSUP/ WSS	May 2013	May 2015	2	732,000.00	Y		Nov 2012
†2.2) WATERJET IMPELLER (INDEPENDENCE VARIANT)		2014	Wartsilla / VA	C / FFP	NAVSUP/ WSS	May 2014	May 2016	4	749,000.00	Y		Nov 2013

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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment		<b>P-1 Line Item Nomenclature:</b> 0944 - LCS Class Support Equipment
		<b>Aggregated Item Name:</b> LCS Class Support Equipment

Items <i>(Units in Each)</i>				Fiscal Year 2013														Fiscal Year 2014																
O C C O	M F R #	FY	SERVICE <sup>±</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013														Calendar Year 2014													
							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	B A L			
1) LN001 LCS Battle Spares																																		
1.1) MAIN PROPULSION DIESEL ENGINE (INDEPENDENCE VARIANT)																																		
2		2014	NAVY	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
1.2) MT-30 GAS TURBINE ENGINE (FREEDOM VARIANT)																																		
3		2013	NAVY	1	-	1	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
1.13) REDUCTION GEAR (FREEDOM VARIANT)																																		
4		2014	NAVY	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
1.17) MAIN PROPULSION DIESEL ENGINE (FREEDOM VARIANT)																																		
5		2014	NAVY	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
1.18) WATERJET TUNNELS																																		
6		2014	NAVY	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
1.19) SHIPS SERVICE DIESEL GENERATOR (FREEDOM VARIANT)																																		
7		2014	NAVY	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
2) LN002 LCS Water jet Spares																																		
2.1) WATERJET ASSEMBLY (FREEDOM VARIANT)																																		
8		2013	NAVY	2	-	2	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
8		2014	NAVY	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	
2.2) WATERJET IMPELLER (INDEPENDENCE VARIANT)																																		
9		2013	NAVY	2	-	2	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
9		2014	NAVY	4	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	
							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	B A L			



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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0944 - LCS Class Support Equipment	<b>Aggregated Item Name:</b> LCS Class Support Equipment

MFR #	MFR Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR	1-8-5	MAX	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	MTU - GERMANY	-	-	-	12	-	12	12	12	12	-	12	12
2	ROLLS ROYCE - WALEPOLE, MA	-	-	-	24	-	24	24	24	24	-	24	24
3	Lockheed Martin - MD	-	-	-	12	-	12	12	12	12	-	12	12
4	Lockheed Martin - MD	-	-	-	12	-	12	12	12	12	-	12	12
5	ROLLS ROYCE - WALEPOLE, MA	-	-	-	12	-	12	12	12	12	-	12	12
6	Fincantieri - Washington, DC	-	-	-	12	-	12	12	12	12	-	12	12
7	Rolls Royce - MS	-	-	-	24	-	24	24	24	24	-	24	24
8	Wartsilla - VA	-	-	-	24	-	24	24	24	24	-	24	24

"A" in the Delivery Schedule indicated the Contract Award Date.  
 Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

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**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0945 - Submarine Batteries

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	196.314	42.191	41.522	37.000	-	37.000	39.843	30.527	31.133	31.324	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	196.314	42.191	41.522	37.000	-	37.000	39.843	30.527	31.133	31.324	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>196.314</b>	<b>42.191</b>	<b>41.522</b>	<b>37.000</b>	<b>-</b>	<b>37.000</b>	<b>39.843</b>	<b>30.527</b>	<b>31.133</b>	<b>31.324</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	0.036	0.042	0.049	-	0.049	0.021	0.007	0.018	-	-	0.173
Flyaway Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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, 4 SSGN Class, 10 SSBN Class and 6 SSN774 Class Submarines. Batteries have a finite life and are consumables. Therefore, the budget also procures replacement VRLA batteries at a notional 5.5 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.

[P40A / HM002 - LOS ANGELES Class Main Storage Battery]: 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 May 2012. 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.

**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 762 DSRA	SSN 750 EOH
SSN 763 DMP	SSN 772 DMP	SSN 764 DSRA	SSN 721 EOH	SSN 751 EOH	SSN 766 DSRA	
SSN 724 EOH	SSN 773 DMP	SSN 719 DSRA	SSN 761 DSRA	SSN 722 EOH	SSN 752 EOH	

FY12 - SSN 755 EOH, SSN 720 DSRA, SSN 771 DSRA

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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment		<b>P-1 Line Item Nomenclature:</b> 0945 - Submarine Batteries
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
<b>MDAP/MAIS Code(s):</b>		
<p>FY13 - SSN 754 EOH, SSN 753 EOH, SSN 769 DSRA, SSN 757 EOH</p> <p>FY14 - SSN 758 EOH, SSN 756 EOH, SSN 760 EOH</p> <p>FY15 - SSN 759 EOH, SSN 765 EOH</p> <p>[P40A / HM008 - OHIO Class Main Storage Battery]: 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 May 2012. 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.</p> <p>Availability Types:          ERO Engineered Refueling Overhaul          ERP Extended Refit Period          MMP Major Maintenance Period</p> <p>Prior Years          SSBN 740 ERP SSBN 743 ERP          SSBN 741 ERP SSBN 735 ERO (SCN Procurement)          SSBN 742 ERP</p> <p>FY12 - SSBN 737 ERO, SSGN 729 MMP, SSBN 736 ERO          FY13 - SSBN 738 ERO, SSGN 726 ERP, SSGN 728 MMP          FY14 - SSBN 739 ERO</p> <p>FY15 - SSGN 727 ERP          FY16 - None          FY17 - SSBN 730 ERP</p> <p>[P40A / HM009 - SEAWOLF Class Main Storage Battery]: 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 May 2012. 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; SEAWOLF class installation of VRLA Shipalt was completed in FY08. Replacement battery procurement was required in FY10 due to premature battery failure.</p> <p>Availability Types:          DPMA Drydocking Phased Maintenance Availability          Special Non-CNO Scheduled Availability</p> <p>Prior Years</p>		

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0945 - Submarine Batteries

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

SSN 22 Special SSN 21 Special SSN 23 DPMA

[P40A / HM010 - VIRGINIA Class Main Storage Battery]: 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 May 2012. 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.

Availability Types: EDSRA Extended Drydocking Selected Restricted Availability

Prior Years - SSN 774 EDSRA

FY12 - SSN 775 EDSRA  
FY13 - None

FY14 - None FY15 - SSN 776 EDSRA

FY16 - SSN 777 EDSRA, SSN 778 EDSRA

FY17 - SSN 779 EDSRA

[P40A / HM830 - Production Engineering]: NSW Crane, as the designated procurement activity and in-service engineering agent (ISEA) monitors battery performance and establishes replacement schedules with the fleet. NSW Crane is also tasked with leading a Government & Industry Root Cause Analysis (RCA) team to identify and address causes for premature capacity decline seen with VLRA batteries. NSW Crane conducts qualification testing of VRLA cells which, in addition to being a Performance Specification requirement, has proven very beneficial to the Navy in detecting battery deficiencies that can be corrected before installation, thus alleviating critical emergent fleet impact. Funding is provided for Puget Sound and Portsmouth Naval Shipyards responsibilities for the flooded battery inventory storage, maintenance and inventory management, SHIPALT support, and AIT management. In addition, costs for Planning Yard SHIPALT completion and Lead Yard Services are funded through this line. Beginning in FY13, additional funding will be provided to Puget Sound and Portsmouth Naval Shipyards in order to operate and maintain VRLA battery test facilities. These facilities will be used for testing of batteries prior to installation. This testing will ensure that batteries are fully operational prior to installation and reduce impacts to the fleet caused by unexpected battery capacity declines.

[P3A / HM002 LOS ANGELES Class Main Battery VRLA & ABMS]: INSTALLATION - HM5IN  
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.

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Equipment	P40A, P5A				35.138			14.046			15.912			19.047			-			19.047

**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0945 - Submarine Batteries

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1 - HM002 LOS ANGELES Class Main Battery VRLA & ABMS	P3A				108.251			11.901			14.597			12.785			-			12.785
2 - HM008 OHIO CLASS MAIN STORAGE BATTERY VRLA + ABMS	P3A				43.062			11.939			11.013			3.487			-			3.487
3 - HM010 VIRGINIA Class Main Storage Battery VRLA	P3A				9.863			4.305			-			1.681			-			1.681
<b>Total Gross/Weapon System Cost</b>					<b>196.314</b>			<b>42.191</b>			<b>41.522</b>			<b>37.000</b>			<b>-</b>			<b>37.000</b>

Item Schedule		ID CD	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Equipment	P40A, P5A				-			-			-			-			-			-
1 - HM002 LOS ANGELES Class Main Battery VRLA & ABMS	P3A				7.985			-			-			-			-			155.519
2 - HM008 OHIO CLASS MAIN STORAGE BATTERY VRLA + ABMS	P3A				6.414			2.935			6.029			-			-			84.879
3 - HM010 VIRGINIA Class Main Storage Battery VRLA	P3A				8.224			14.024			6.737			-			-			44.834
<b>Total Gross/Weapon System Cost</b>					<b>39.843</b>			<b>30.527</b>			<b>31.133</b>			<b>31.324</b>			<b>Continuing</b>		<b>Continuing</b>	

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

**UNCLASSIFIED**

**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0945 - Submarine Batteries

**Aggregated Item Name:**  
Equipment <sup>(1)</sup>

Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) HM002 - LOS ANGELES Class Main Storage Battery</b>																				
† 1.1) VRLA LOS ANGELES	A		2,935K	1	2.935	-	-	-	1,152K	1	1.152	558,000.00	5	2.790	-	-	-	558,000.00	5	2.790
1.2) VRLA Los Angeles Material	A		-	-	-	-	-	5.019	-	-	3.828	-	-	2.595	-	-	-	-	-	2.595
<i>Subtotal 1) HM002 - LOS ANGELES Class Main Storage Battery</i>					2.935			5.019			4.980			5.385						5.385
<b>2) HM008 - OHIO Class Main Storage Battery</b>																				
† 2.1) VRLA OHIO	A		2,187K	1	2.187	-	-	-	2,166K	2	4.332	1,572K	3	4.716	-	-	-	1,572K	3	4.716
2.2) VRLA OHIO Material	A		-	-	-	-	-	5.217	-	-	2.009	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) HM008 - OHIO Class Main Storage Battery</i>					2.187			5.217			6.341			4.716						4.716
<b>3) HM009 - SEAWOLF Class Main Storage Battery</b>																				
† 3.1) VRLA Seawolf	A		749,000.00	1	0.749	597,000.00	1	0.597	607,000.00	1	0.607	730,000.00	1	0.730	-	-	-	730,000.00	1	0.730
3.2) VRLA Seawolf + ABMS	A		1,179K	3	3.536	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 3) HM009 - SEAWOLF Class Main Storage Battery</i>					4.285			0.597			0.607			0.730						0.730
<b>4) HM010 - VIRGINIA Class Main Storage Battery</b>																				
† 4.1) VIRGINIA	A		-	-	-	-	-	-	-	-	-	672,000.00	1	0.672	-	-	-	672,000.00	1	0.672
4.2) VRLA VIRGINIA Material	A		-	-	-	-	-	-	-	-	-	-	-	2.730	-	-	-	-	-	2.730
<i>Subtotal 4) HM010 - VIRGINIA Class Main Storage Battery</i>					-			-			-			3.402						3.402
<b>5) HM830 - Production Engineering</b>																				
5.1) Production Engineering	A		-	-	25.731	-	-	3.213	-	-	3.984	-	-	4.814	-	-	-	-	-	4.814
<i>Subtotal 5) HM830 - Production Engineering</i>					25.731			3.213			3.984			4.814						4.814
<b>Total</b>					<b>35.138</b>			<b>14.046</b>			<b>15.912</b>			<b>19.047</b>						<b>19.047</b>

**UNCLASSIFIED**

**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0945 - Submarine Batteries

**Aggregated Item Name:**  
Equipment <sup>(1)</sup>

Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) HM002 - LOS ANGELES Class Main Storage Battery</b>																				
† 1.1) VRLA LOS ANGELES	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2) VRLA Los Angeles Material	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 1) HM002 - LOS ANGELES Class Main Storage Battery</i>					-			-			-			-			-			-
<b>2) HM008 - OHIO Class Main Storage Battery</b>																				
† 2.1) VRLA OHIO	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.2) VRLA OHIO Material	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) HM008 - OHIO Class Main Storage Battery</i>					-			-			-			-			-			-
<b>3) HM009 - SEAWOLF Class Main Storage Battery</b>																				
† 3.1) VRLA Seawolf	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.2) VRLA Seawolf + ABMS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 3) HM009 - SEAWOLF Class Main Storage Battery</i>					-			-			-			-			-			-
<b>4) HM010 - VIRGINIA Class Main Storage Battery</b>																				
† 4.1) VIRGINIA	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.2) VRLA VIRGINIA Material	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 4) HM010 - VIRGINIA Class Main Storage Battery</i>					-			-			-			-			-			-
<b>5) HM830 - Production Engineering</b>																				
5.1) Production Engineering	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 5) HM830 - Production Engineering</i>					-			-			-			-			-			-
<b>Total</b>					-			-			-			-			-			-

**Footnotes:**

**UNCLASSIFIED**

<b>Exhibit P-40A, Budget Item Justification For Aggregated Items:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0945 - Submarine Batteries	<b>Aggregated Item Name:</b> Equipment <sup>(1)</sup>

<sup>(1)</sup> (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) FY13 VRLA LOS ANGELES (without ABMS) unit costs include spin lock trays (\$0.6M), which are part of the original SHIPALT design installed on the first 6 submarines, to support life cycle replacement procedures, so unit cost is higher than battery with ABMS. (3) FY13 & FY14 VRLA OHIO replacement batteries (without ABMS) include replacement trays to support life cycle replacement logistics. (4) FY15 VRLA VIRGINIA replacement batteries (without ABMS) include replacement trays to support life cycle replacement logistics.

**UNCLASSIFIED**

Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Navy										Date: April 2013		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment				P-1 Line Item Nomenclature: 0945 - Submarine Batteries				Aggregated Item Name: Equipment <sup>(1)</sup>				
Items	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>1) HM002 - LOS ANGELES Class Main Storage Battery</b>												
1.1) VRLA LOS ANGELES		2011	ENERSYS / Warrensburg, MO	SS / FP	NSWC CRANE	Jan 2011	Jan 2012	1	1,100K	Y		
1.1) VRLA LOS ANGELES		2013	Unknown / Unknown	C / IDIQ	NSWC CRANE	Mar 2013	Mar 2014	1	1,152K	Y		
1.1) VRLA LOS ANGELES		2014 <sup>(2)</sup>	Unknown / Unknown	C / IDIQ	NSWC CRANE	Jan 2014	Jan 2015	5	558,000.00	Y		
<b>2) HM008 - OHIO Class Main Storage Battery</b>												
2.1) VRLA OHIO		2013	Unknown / Unknown	C / IDIQ	NSWC CRANE	Mar 2013	Jan 2014	2	2,166K	Y		
2.1) VRLA OHIO		2014	Unknown / Unknown	C / IDIQ	NSWC CRANE	Jan 2014	Sep 2014	3	1,572K	Y		
<b>3) HM009 - SEAWOLF Class Main Storage Battery</b>												
3.1) VRLA Seawolf		2012	ENERSYS / Warrensburg, MO	SS / FP	NSWC CRANE	Jan 2012	Jan 2013	1	597,000.00	Y		
3.1) VRLA Seawolf		2013	Unknown / Unknown	C / IDIQ	NSWC CRANE	Mar 2013	Jan 2014	1	607,000.00	Y		
3.1) VRLA Seawolf		2014	Unknown / Unknown	C / IDIQ	NSWC CRANE	Apr 2014	Apr 2015	1	730,000.00	Y		
<b>4) HM010 - VIRGINIA Class Main Storage Battery</b>												
4.1) VIRGINIA		2014	Unknown / TBD	C / IDIQ	NSWC CRANE	Jan 2014	Jan 2015	1	672,000.00	Y		
<b>Footnotes:</b> <sup>(2)</sup> (1) Production Lead time is 6-12 months for all classes. (2) FY13-FY17 VRLA battery procurements, for all classes, will be on a C/FP (IDIQ) contract. The initial contract award will take place in March 2013. Delivery orders will be placed, as needed, for additional procurement thereafter. (3) 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 battery with ABMS.												

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0945 - Submarine Batteries	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - HM002 LOS ANGELES Class Main Battery VRLA & ABMS

<b>Models of Systems Affected:</b> LOS ANGELES CLASS MAIN STORAGE BATTERY VRLA LOS ANGELES + ABMS	<b>Type Modification:</b> SHIPALT	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	108.251	11.901	14.597	12.785	-	12.785	7.985	-	-	-	-	155.519
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	108.251	11.901	14.597	12.785	-	12.785	7.985	-	-	-	-	155.519
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>108.251</b>	<b>11.901</b>	<b>14.597</b>	<b>12.785</b>	<b>-</b>	<b>12.785</b>	<b>7.985</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>155.519</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

[HM002 LOS ANGELES CLASS BATTERY VRLA & ABMS INSTALL]

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0945 - Submarine Batteries	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - HM002 LOS ANGELES Class Main Battery VRLA & ABMS

<b>Models of Systems Affected:</b> LOS ANGELES CLASS MAIN STORAGE BATTERY VRLA LOS ANGELES + ABMS	<b>Type Modification:</b> SHIPALT	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
HM002 LOS ANGELES Class Main Battery VRLA & ABMS												
B Kits												
Recurring												
1.1.1) HM002 LOS ANGELES CLASS BATTERY VRLA & ABMS INSTALL - NonOrganic <sup>(3)</sup>	21 / 15.359	5 / 3.731	3 / 2.407	2 / 1.647	- / -	2 / 1.647	- / -	- / -	- / -	- / -	- / -	31 / 23.144
<b>Subtotal Recurring</b>	21 / 15.359	5 / 3.731	3 / 2.407	2 / 1.647	- / -	2 / 1.647	- / -	- / -	- / -	- / -	- / -	31 / 23.144
<b>Total, HM002 LOS ANGELES Class Main Battery VRLA &amp; ABMS</b>	21 / 15.359	5 / 3.731	3 / 2.407	2 / 1.647	- / -	2 / 1.647	- / -	- / -	- / -	- / -	- / -	31 / 23.144
<b>Total Procurement, All Modifications</b>	21 / 15.359	5 / 3.731	3 / 2.407	2 / 1.647	- / -	2 / 1.647	- / -	- / -	- / -	- / -	- / -	31 / 23.144
<b>Total Procurement and Support</b>	15.359	3.731	2.407	1.647	-	1.647	-	-	-	-	-	23.144
HM002 LOS ANGELES Class Main Battery VRLA & ABMS Installation Cost	- / 92.892	- / 8.170	- / 12.190	- / 11.138	- / -	- / 11.138	- / 7.985	- / -	- / -	- / -	- / -	- / 132.375
<b>Total Installation Cost</b>	- / 92.892	- / 8.170	- / 12.190	- / 11.138	- / -	- / 11.138	- / 7.985	- / -	- / -	- / -	- / -	- / 132.375
<b>Total Cost (Procurement + Support + Installation)</b>	108.251	11.901	14.597	12.785	-	12.785	7.985	-	-	-	-	155.519

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0945 - Submarine Batteries	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - HM002 LOS ANGELES Class Main Battery VRLA & ABMS
<b>Models of Systems Affected:</b> LOS ANGELES CLASS MAIN STORAGE BATTERY VRLA LOS ANGELES + ABMS	<b>Type Modification:</b> SHIPALT	<b>Related RDT&amp;E PEs:</b>

<b>Manufacturer Information: HM002 LOS ANGELES Class Main Battery VRLA &amp; ABMS</b>							
Manufacturer Name: ENERSYS <sup>(4)</sup>				Manufacturer Location: WARRENSURG. MO			
Administrative Leadtime ( <i>in Months</i> ): 3				Production Leadtime ( <i>in Months</i> ): 12			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates	Jan 2012						
Delivery Dates	Sep 2012						
Manufacturer Name: Unknown				Manufacturer Location: TBD			
Administrative Leadtime ( <i>in Months</i> ): 3				Production Leadtime ( <i>in Months</i> ): 12			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates		Mar 2013	Jan 2014				
Delivery Dates		Jan 2014	Nov 2014				

<b>Installation:</b> HM002 LOS ANGELES Class Main Battery VRLA & ABMS			<b>Method of Implementation:</b> AIT					<b>Installation Name:</b> HM002 LOS ANGELES CLASS BATTERY VRLA & ABMS INSTALL				
<b>Installation Cost</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO</b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
All Prior Years	19 / 92.892	2 / 5.447	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 98.339
FY 2012	- / -	1 / 2.723	4 / 12.190	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 14.913
FY 2013	- / -	- / -	- / -	3 / 11.138	- / -	3 / 11.138	- / -	- / -	- / -	- / -	- / -	3 / 11.138
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	2 / 7.985	- / -	- / -	- / -	- / -	2 / 7.985
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	19 / 92.892	3 / 8.170	4 / 12.190	3 / 11.138	- / -	3 / 11.138	2 / 7.985	- / -	- / -	- / -	- / -	31 / 132.375

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0945 - Submarine Batteries	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - HM002 LOS ANGELES Class Main Battery VRLA & ABMS
<b>Models of Systems Affected:</b> LOS ANGELES CLASS MAIN STORAGE BATTERY VRLA LOS ANGELES + ABMS	<b>Type Modification:</b> SHIPALT	<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> HM002 LOS ANGELES Class Main Battery VRLA & ABMS	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> HM002 LOS ANGELES CLASS BATTERY VRLA & ABMS INSTALL
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<b>Installation Schedule</b>																																
	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot	
		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	19	-	1	-	2	2	1	-	1	-	-	2	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31
Out	16	-	3	-	1	-	2	2	1	-	1	-	-	2	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	31

**Footnotes:**  
 (3) (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) In FY12 and later, a realignment of ancillary material costs from Installation to Procurement took place as noted in the P-40A remarks. (3) In FY14 and later, the cost for on-yard installations will increase by ~\$1.2M due to availability management and support services now being prorated to AIT customers for home-yard installations (i.e. Portsmouth NSY).  
 (4) Production Leadtime can range from 6-12 months

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0945 - Submarine Batteries	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - HM008 OHIO CLASS MAIN STORAGE BATTERY VRLA + ABMS

<b>Models of Systems Affected:</b> OHIO CLASS MAIN STORAGE BATTERY VRLA + ABMS	<b>Type Modification:</b> SHIPALT	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	43.062	11.939	11.013	3.487	-	3.487	6.414	2.935	6.029	-	-	84.879
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	43.062	11.939	11.013	3.487	-	3.487	6.414	2.935	6.029	-	-	84.879
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>43.062</b>	<b>11.939</b>	<b>11.013</b>	<b>3.487</b>	<b>-</b>	<b>3.487</b>	<b>6.414</b>	<b>2.935</b>	<b>6.029</b>	<b>-</b>	<b>-</b>	<b>84.879</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0945 - Submarine Batteries	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - HM008 OHIO CLASS MAIN STORAGE BATTERY VRLA + ABMS

<b>Models of Systems Affected:</b> OHIO CLASS MAIN STORAGE BATTERY VRLA + ABMS	<b>Type Modification:</b> SHIPALT	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
HM008 OHIO CLASS MAIN STORAGE BATTERY VRLA + ABMS												
B Kits												
Recurring												
1.1.1) HM008 OHIO CLASS MAIN STORAGE BATTERY VRLA + ABMS - NonOrganic <sup>(5)</sup>	10 / 19.662	1 / 2.750	1 / 2.666	- / -	- / -	- / -	1 / 2.922	1 / 2.935	- / -	- / -	- / -	14 / 30.935
<b>Subtotal Recurring</b>	10 / 19.662	1 / 2.750	1 / 2.666	- / -	- / -	- / -	1 / 2.922	1 / 2.935	- / -	- / -	- / -	14 / 30.935
<i>Total, HM008 OHIO CLASS MAIN STORAGE BATTERY VRLA + ABMS</i>	10 / 19.662	1 / 2.750	1 / 2.666	- / -	- / -	- / -	1 / 2.922	1 / 2.935	- / -	- / -	- / -	14 / 30.935
<b>Total Procurement, All Modifications</b>	10 / 19.662	1 / 2.750	1 / 2.666	- / -	- / -	- / -	1 / 2.922	1 / 2.935	- / -	- / -	- / -	14 / 30.935
<b>Total Procurement and Support</b>	19.662	2.750	2.666	-	-	-	2.922	2.935	-	-	-	30.935
HM008 OHIO CLASS MAIN STORAGE BATTERY VRLA + ABMS Installation Cost	- / 23.400	- / 9.189	- / 8.347	- / 3.487	- / -	- / 3.487	- / 3.492	- / -	- / 6.029	- / -	- / -	- / 53.944
<b>Total Installation Cost</b>	- / 23.400	- / 9.189	- / 8.347	- / 3.487	- / -	- / 3.487	- / 3.492	- / -	- / 6.029	- / -	- / -	- / 53.944
<b>Total Cost (Procurement + Support + Installation)</b>	43.062	11.939	11.013	3.487	-	3.487	6.414	2.935	6.029	-	-	84.879

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0945 - Submarine Batteries	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - HM008 OHIO CLASS MAIN STORAGE BATTERY VRLA + ABMS

<b>Models of Systems Affected:</b> OHIO CLASS MAIN STORAGE BATTERY VRLA + ABMS	<b>Type Modification:</b> SHIPALT	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: HM008 OHIO CLASS MAIN STORAGE BATTERY VRLA + ABMS**

Manufacturer Name: ENERSYS <sup>(6)</sup>				Manufacturer Location: WARRENSURG. MO			
Administrative Leadtime ( <i>in Months</i> ): 3				Production Leadtime ( <i>in Months</i> ): 12			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates	Jul 2012						
Delivery Dates	Jul 2013						
Manufacturer Name: Unknown				Manufacturer Location: TBD			
Administrative Leadtime ( <i>in Months</i> ): 3				Production Leadtime ( <i>in Months</i> ): 12			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates		Mar 2013					
Delivery Dates		Nov 2013					

<b>Installation:</b> HM008 OHIO CLASS MAIN STORAGE BATTERY VRLA + ABMS	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> HM008 OHIO CLASS MAIN STORAGE BATTERY VRLA + ABMS
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<b>Installation Cost</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO</b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
	<i>Qty (Each) / Total Cost (\$ M)</i>											
All Prior Years	5 / 23.400	3 / 9.189	2 / 5.565	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 38.154
FY 2012	- / -	- / -	1 / 2.782	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.782
FY 2013	- / -	- / -	- / -	1 / 3.487	- / -	1 / 3.487	- / -	- / -	- / -	- / -	- / -	1 / 3.487
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.492	- / -	- / -	- / -	- / -	1 / 3.492
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 6.029	- / -	- / -	1 / 6.029
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	<b>5 / 23.400</b>	<b>3 / 9.189</b>	<b>3 / 8.347</b>	<b>1 / 3.487</b>	<b>- / -</b>	<b>1 / 3.487</b>	<b>1 / 3.492</b>	<b>- / -</b>	<b>1 / 6.029</b>	<b>- / -</b>	<b>- / -</b>	<b>14 / 53.944</b>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0945 - Submarine Batteries	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - HM008 OHIO CLASS MAIN STORAGE BATTERY VRLA + ABMS

<b>Models of Systems Affected:</b> OHIO CLASS MAIN STORAGE BATTERY VRLA + ABMS	<b>Type Modification:</b> SHIPALT	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> HM008 OHIO CLASS MAIN STORAGE BATTERY VRLA + ABMS	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> HM008 OHIO CLASS MAIN STORAGE BATTERY VRLA + ABMS
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<b>Installation Schedule</b>																																
	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot	
		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	-	2	1	-	-	1	1	1	-	1	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	14
Out	5	-	-	-	2	1	-	-	1	1	1	-	1	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	14

**Footnotes:**  
<sup>(5)</sup> (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. (3)SSGN 728, SSBN 736 & SSGN 729 installations cancelled in FY11 due to FY11 Congressional reduction in controls. Batteries for FY11 installations were procured in FY10. These batteries will be installed on SSGN 729, SSBN 737, and SSBN 736. (4) In FY12 and later, a realignment of ancillary material costs from Installation to Procurement took place as noted in the P-40A remarks. (5) In FY14 and later, the cost for on-yard installations will increase by ~\$900K due to availability management and support services now being prorated to AIT customers for home-yard installations (i.e. Puget NSY&IMF).  
<sup>(6)</sup> Production Leadtime can range from 6-12 months

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0945 - Submarine Batteries	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - HM010 VIRGINIA Class Main Storage Battery VRLA

<b>Models of Systems Affected:</b> VIRGINIA Class Main Storage Battery VRLA + ABMS	<b>Type Modification:</b> SHIPALT	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	9.863	4.305	-	1.681	-	1.681	8.224	14.024	6.737	-	-	44.834
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	9.863	4.305	-	1.681	-	1.681	8.224	14.024	6.737	-	-	44.834
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>9.863</b>	<b>4.305</b>	-	<b>1.681</b>	-	<b>1.681</b>	<b>8.224</b>	<b>14.024</b>	<b>6.737</b>	-	-	<b>44.834</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0945 - Submarine Batteries	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - HM010 VIRGINIA Class Main Storage Battery VRLA

<b>Models of Systems Affected:</b> VIRGINIA Class Main Storage Battery VRLA + ABMS	<b>Type Modification:</b> SHIPALT	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
HM010 VIRGINIA Class Main Storage Battery VRLA												
B Kits												
Recurring												
1.1.1) HM010 VIRGINIA Class Main Storage Battery VRLA - NonOrganic <sup>(7)</sup>	2 / 3.288	- / -	- / -	1 / 1.681	- / -	1 / 1.681	2 / 3.419	1 / 1.739	- / -	- / -	- / -	6 / 10.127
<b>Subtotal Recurring</b>	2 / 3.288	- / -	- / -	1 / 1.681	- / -	1 / 1.681	2 / 3.419	1 / 1.739	- / -	- / -	- / -	6 / 10.127
<b>Total, HM010 VIRGINIA Class Main Storage Battery VRLA</b>	2 / 3.288	- / -	- / -	1 / 1.681	- / -	1 / 1.681	2 / 3.419	1 / 1.739	- / -	- / -	- / -	6 / 10.127
<b>Total Procurement, All Modifications</b>	2 / 3.288	- / -	- / -	1 / 1.681	- / -	1 / 1.681	2 / 3.419	1 / 1.739	- / -	- / -	- / -	6 / 10.127
<b>Total Procurement and Support</b>	3.288	-	-	1.681	-	1.681	3.419	1.739	-	-	-	10.127
HM010 VIRGINIA Class Main Storage Battery VRLA Installation Cost	- / 6.575	- / 4.305	- / -	- / -	- / -	- / -	- / 4.805	- / 12.285	- / 6.737	- / -	- / -	- / 34.707
<b>Total Installation Cost</b>	- / 6.575	- / 4.305	- / -	- / -	- / -	- / -	- / 4.805	- / 12.285	- / 6.737	- / -	- / -	- / 34.707
<b>Total Cost (Procurement + Support + Installation)</b>	9.863	4.305	-	1.681	-	1.681	8.224	14.024	6.737	-	-	44.834

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0945 - Submarine Batteries	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - HM010 VIRGINIA Class Main Storage Battery VRLA

<b>Models of Systems Affected:</b> VIRGINIA Class Main Storage Battery VRLA + ABMS	<b>Type Modification:</b> SHIPALT	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: HM010 VIRGINIA Class Main Storage Battery VRLA**

Manufacturer Name: Unknown@TBD	Manufacturer Location: WARRENSURG. MO
Administrative Leadtime ( <i>in Months</i> ): 3	Production Leadtime ( <i>in Months</i> ): 12

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates			Jan 2014				
Delivery Dates			Jan 2015				

<b>Installation:</b> HM010 VIRGINIA Class Main Storage Battery VRLA	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> HM010 VIRGINIA Class Main Storage Battery VRLA
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	1 / 6.575	1 / 4.305	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 10.880
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	1 / 4.805	- / -	- / -	- / -	- / -	1 / 4.805
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 12.285	- / -	- / -	- / -	2 / 12.285
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 6.737	- / -	- / -	1 / 6.737
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 6.575	1 / 4.305	- / -	- / -	- / -	- / -	1 / 4.805	2 / 12.285	1 / 6.737	- / -	- / -	6 / 34.707

Installation Schedule																															
APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot	
	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	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1	-	-	-	-	1	-	-	-	-	-	6
Out	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1	-	-	-	-	1	-	-	6

Footnotes:

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0945 - Submarine Batteries	<b>Modification Nomenclature</b> <i>(Modification Number - Modification Title):</i> 3 - HM010 VIRGINIA Class Main Storage Battery VRLA
<b>Models of Systems Affected:</b> VIRGINIA Class Main Storage Battery VRLA + ABMS	<b>Type Modification:</b> SHIPALT	<b>Related RDT&amp;E PEs:</b>

<sup>(7)</sup> (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. (3) In FY12 and later, a realignment of ancillary material costs from Installation to Procurement took place as noted in the P-40A remarks. (4) In FY14 and later, the cost for on-yard installations will increase by ~\$2.0M due to availability management and support services now being prorated to AIT customers for home-yard installations (i.e. Portsmouth NSY).

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0946 - LPD Class Support Equipment

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1.000	-	30.543	25.053	-	25.053	62.621	52.389	67.711	46.378	42.600	328.295
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	1.000	-	30.543	25.053	-	25.053	62.621	52.389	67.711	46.378	42.600	328.295
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>1.000</b>	<b>-</b>	<b>30.543</b>	<b>25.053</b>	<b>-</b>	<b>25.053</b>	<b>62.621</b>	<b>52.389</b>	<b>67.711</b>	<b>46.378</b>	<b>42.600</b>	<b>328.295</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

This budget provides funding for the in service LPD 17 class program support equipment. Previous funding for LPD 17 class support equipment (FY 12 and earlier) was provided line item OPN 0981, Items Less Than \$5 Million. Funding is required to upgrade mission critical electronic and HM&E 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.

**XX5IN - Installation of Equipment**

Funding is for installation of equipment in support of the Fleet Modernization Program (FMP).

[P40A / XX001 - Schoolhouse TTE]: XX001 - SCHOOLHOUSE TTE

Funding for Schoolhouse Technical Training Equipment (TTE) is for the infrastructure and equipment to set up the schoolhouses for multiple systems such as ECS and SCS. The schoolhouses will provide critical training to sailors in operation and maintenance of those systems.

[P40A / XX002 - Shore Based Spares]: XX002 SHORE BASED SPARES

Shore-Based Spares 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.

[P3A / XX003 - HW/SW Obsolescence]: XX003 LPD 17 HW/SW OBSOLESCENCE

HW/SW Obsolescence effort addresses hardware obsolescence/technology refreshment issues, the DoD-mandated ForceNet Upgrade (IPv6) requirement, and class upgrades focused on increased capabilities, force protection, and safety. Funding will support procurement of hardware and software changes to the systems listed:

23TV- CIDS PC and Server upgrade, replace projectors with LSDs, KVM 1st Generation Obsolescence Plan, OS/RTI Middleware/TV-Tuner Incompatibility. Engineering Control Systems (ECS-XP upgrade), PLC upgrade and Sensor Improvement, OWN HM&E Network.

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0946 - LPD Class Support Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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**MDAP/MAIS Code(s):**

Ship Control Systems (SCS-XP upgrade), SCS Tech Refresh, OWN HM&E network, Quad Display Indicator Panel Replacement. Magnetic Signature Control System (MSCS)- XP upgrade, OWN HM&E network, DCA Redesign.  
 Wire-free Portable Communication System (WPCS)- WPCS upgrade, Ultra High Frequency (UHF)/ Very High Frequency (VHF) Linker.  
 27TV- 27TV System Upgrade, Integrated Video Distribution System (IVDS) Camera Upgrade.  
 Automatic Fire Sensing and Suppression (AFSS)-AFSS System Upgrade.  
 Integrated Voice Communication System (IVCS)- IVCS upgrade.  
 1MC-1MC improvements  
 Damage Control Assessment Management System (DCAMS)- Tech Refresh  
 Navigational Data Distribution System (NDDS)- OWN HM&E Network, Software Navigation Display at Quad Panel during fail over test.

[P3A / XX004 HM&E Electrical Modifications]: XX004 HM&E ELECTRICAL MODIFICATIONS  
 HME Modernization funding is provided to correct mission, safety, reliability, issues on HME systems and ultimately resolve maintenance intensive system concerns.

[P3A / XX005 - HM&E Survivability Modifications]: XX005 HM&E SURVIVABILITY MODIFICATIONS  
 HME Modernization funding is provided to correct mission, safety, reliability, issues on HME systems and ultimately resolve maintenance intensive system concerns.

[P3A / XX006 - HM&E Mechanical/Auxiliary Modifications]: XX006 HM&E MECHANICAL/AUXILIARY MODIFICATIONS  
 HME Modernization funding is provided to correct mission, safety, reliability, issues on HME systems and ultimately resolve maintenance intensive system concerns.

[P3A / XX007 SWAN-CANES Integration]: XX007 SWAN-CANES Integration  
 The results of the Ship Wide Area Network (SWAN)/ Consolidated Afloat Networks and Enterprise Services (CANES) study provided an updated configuration and use of the LPD 17 Class network systems. SWAN modification funding is provided for converting SWAN to an HM&E only network in support of CANES installation and also to address SWAN obsolescence, tech refresh, reliability issues, and synergistically resolves SWAN performance concerns. These modifications can include up to six distinct updates that can be combined or separated to accommodate the individual ships' schedules and at least one ship does not require all modifications due to current configuration.

Item Schedule		Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
LPD Class Support Equipment	P40A, P5A, P21				-			-			4.800			5.656			-			5.656
1 - XX003 - HW/SW Obsolescence	P3A				1.000			-			9.643			3.531			-			3.531
2 - XX004 HM&E Electrical Modifications	P3A				0.000			-			3.000			3.900			-			3.900
3 - XX005 - HM&E Survivability Modifications	P3A				0.000			-			1.000			1.475			-			1.475

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**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0946 - LPD Class Support Equipment

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
4 - XX006 - HM&E Mechanical/Auxiliary Modifications	P3A				0.000			-			3.000			9.491			-			9.491
5 - XX007 SWAN-CANES Integration	P3A				0.000			-			9.100			1.000			-			1.000
<b>Total Gross/Weapon System Cost</b>					<b>1.000</b>			<b>-</b>			<b>30.543</b>			<b>25.053</b>			<b>-</b>			<b>25.053</b>

Item Schedule		ID CD	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
LPD Class Support Equipment	P40A, P5A, P21				-			-			-			-			-			-
1 - XX003 - HW/SW Obsolescence	P3A				17.377			6.546			9.049			17.926			19.400			84.472
2 - XX004 HM&E Electrical Modifications	P3A				6.883			9.227			13.875			5.779			6.000			48.664
3 - XX005 - HM&E Survivability Modifications	P3A				3.243			3.211			2.973			7.579			2.700			22.181
4 - XX006 - HM&E Mechanical/Auxiliary Modifications	P3A				24.574			15.835			20.433			7.594			2.500			83.427
5 - XX007 SWAN-CANES Integration	P3A				6.300			14.000			18.423			3.000			2.000			53.823
<b>Total Gross/Weapon System Cost</b>					<b>62.621</b>			<b>52.389</b>			<b>67.711</b>			<b>46.378</b>			<b>42.600</b>			<b>328.295</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

**UNCLASSIFIED**

**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0946 - LPD Class Support Equipment

**Aggregated Item Name:**  
LPD Class Support Equipment

Items († indicates the presence of a P-5A)	ID CD	MDAP/ MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)															
<b>1) XX001 - Schoolhouse TTE</b>																				
† 1.1) Schoolhouse TTE	A		-	-	-	-	-	-	1,200K	1	1.200	-	-	0.780	-	-	-	-	-	0.780
<i>Subtotal 1) XX001 - Schoolhouse TTE</i>					-						1.200			0.780						0.780
<b>2) XX002 - Shore Based Spares</b>																				
2.1) Shore Based Spares	A		-	-	-	-	-	-	-	-	3.600	-	-	4.876	-	-	-	-	-	4.876
<i>Subtotal 2) XX002 - Shore Based Spares</i>					-						3.600			4.876						4.876
<b>Total</b>					-						<b>4.800</b>			<b>5.656</b>						<b>5.656</b>

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**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0946 - LPD Class Support Equipment	<b>Aggregated Item Name:</b> LPD Class Support Equipment
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Items († indicates the presence of a P-5A)	ID CD	MDAP/ MAIS Code	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) XX001 - Schoolhouse TTE</b>																				
† 1.1) Schoolhouse TTE	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 1) XX001 - Schoolhouse TTE</i>					-			-			-			-			-			-
<b>2) XX002 - Shore Based Spares</b>																				
2.1) Shore Based Spares	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) XX002 - Shore Based Spares</i>					-			-			-			-			-			-
<b>Total</b>					-			-			-			-			-			-

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<b>Exhibit P-5A, Budget Procurement History and Planning:</b> PB 2014 Navy								<b>Date:</b> April 2013				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment			<b>P-1 Line Item Nomenclature:</b> 0946 - LPD Class Support Equipment					<b>Aggregated Item Name:</b> LPD Class Support Equipment				
<b>Items</b> <small>(† indicates the presence of a P-21)</small>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type, or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty</b> <i>(Each)</i>	<b>Unit Cost</b> <i>(\$)</i>	<b>Specs Avail Now?</b>	<b>Date Revsn Avail</b>	<b>RFP Issue Date</b>
<b>1) XX001 - Schoolhouse TTE</b>												
†1.1) Schoolhouse TTE		2013	TBD / TBD	C / TBD	NAVSEA	Apr 2013	Nov 2013	1	1,200K	N		

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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2014 Navy															<b>Date:</b> April 2013														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment										<b>P-1 Line Item Nomenclature:</b> 0946 - LPD Class Support Equipment										<b>Aggregated Item Name:</b> LPD Class Support Equipment									

Items <i>(Units in Each)</i>						Fiscal Year 2013												Fiscal Year 2014															
O C C O	M F R #	FY	SERVICE <sup>±</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013												Calendar Year 2014														
							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	B A L		
1) XX001 - Schoolhouse TTE																																	
1.1) Schoolhouse TTE																																	
	10	2013	NAVY	1	-	1	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
							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	B A L		

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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0946 - LPD Class Support Equipment	<b>Aggregated Item Name:</b> LPD Class Support Equipment

MFR #	MFR Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR	1-8-5	MAX	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	TBD - TBD	-	-	-	-	-	-	-	-	-	-	-	-

"A" in the Delivery Schedule indicated the Contract Award Date.  
 Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0946 - LPD Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - XX003 - HW/SW Obsolescence

<b>Models of Systems Affected:</b> HW/SW Obsolescence			<b>Type Modification:</b> [No Modification Type Specified]				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1.000	-	9.643	3.531	-	3.531	17.377	6.546	9.049	17.926	19.400	84.472
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	1.000	-	9.643	3.531	-	3.531	17.377	6.546	9.049	17.926	19.400	84.472
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>1.000</b>	-	<b>9.643</b>	<b>3.531</b>	-	<b>3.531</b>	<b>17.377</b>	<b>6.546</b>	<b>9.049</b>	<b>17.926</b>	<b>19.400</b>	<b>84.472</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

[HW/SW Obsolescence] HW/SW Obsolescence effort addresses hardware obsolescence/technology refreshment issues, the DoD-mandated ForceNet Upgrade (IPv6) requirement, and class upgrades focused on increased capabilities, force protection, and safety.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0946 - LPD Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - XX003 - HW/SW Obsolescence

**Models of Systems Affected:** HW/SW Obsolescence    **Type Modification:** [No Modification Type Specified]    **Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
XX003 - HW/SW Obsolescence												
B Kits												
Recurring												
1.1.1) HW/SW Obsolescence - NonOrganic <sup>(1)</sup>	1 / 1.000	- / -	25 / 7.148	3 / 2.014	- / -	3 / 2.014	16 / 14.880	12 / 4.451	6 / 6.553	8 / 15.330	11 / 14.000	82 / 65.376
<i>Subtotal Recurring</i>	1 / 1.000	- / -	25 / 7.148	3 / 2.014	- / -	3 / 2.014	16 / 14.880	12 / 4.451	6 / 6.553	8 / 15.330	11 / 14.000	82 / 65.376
<i>Total, XX003 - HW/SW Obsolescence</i>	1 / 1.000	- / -	25 / 7.148	3 / 2.014	- / -	3 / 2.014	16 / 14.880	12 / 4.451	6 / 6.553	8 / 15.330	11 / 14.000	82 / 65.376
<b>Total Procurement, All Modifications</b>	1 / 1.000	- / -	25 / 7.148	3 / 2.014	- / -	3 / 2.014	16 / 14.880	12 / 4.451	6 / 6.553	8 / 15.330	11 / 14.000	82 / 65.376
<b>Total Procurement and Support</b>	1.000	-	7.148	2.014	-	2.014	14.880	4.451	6.553	15.330	14.000	65.376
XX003 - HW/SW Obsolescence Installation Cost	- / 0.000	- / -	- / 2.495	- / 1.517	- / -	- / 1.517	- / 2.497	- / 2.095	- / 2.496	- / 2.596	- / 5.400	- / 19.096
<i>Total Installation Cost</i>	- / 0.000	- / -	- / 2.495	- / 1.517	- / -	- / 1.517	- / 2.497	- / 2.095	- / 2.496	- / 2.596	- / 5.400	- / 19.096
<b>Total Cost (Procurement + Support + Installation)</b>	1.000	-	9.643	3.531	-	3.531	17.377	6.546	9.049	17.926	19.400	84.472

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0946 - LPD Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - XX003 - HW/SW Obsolescence

<b>Models of Systems Affected:</b> HW/SW Obsolescence	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information:</b> XX003 - HW/SW Obsolescence	
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Manufacturer Name: Raytheon Co.	Manufacturer Location: San Diego, CA
Administrative Leadtime ( <i>in Months</i> ): 3	Production Leadtime ( <i>in Months</i> ): 8

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates		Apr 2013	Dec 2013				
Delivery Dates		Dec 2013	Dec 2014				

<b>Installation:</b> XX003 - HW/SW Obsolescence	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> HW/SW Obsolescence
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	1 / 2.495	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.495
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	25 / 1.517	- / -	25 / 1.517	- / -	- / -	- / -	- / -	- / -	25 / 1.517
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	3 / 2.497	- / -	- / -	- / -	- / -	3 / 2.497
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 2.095	- / -	- / -	- / -	16 / 2.095
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.496	- / -	- / -	12 / 2.496
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.596	- / -	6 / 2.596
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 2.600	8 / 2.600
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 2.800	11 / 2.800
Total	- / -	- / -	1 / 2.495	25 / 1.517	- / -	25 / 1.517	3 / 2.497	16 / 2.095	12 / 2.496	6 / 2.596	19 / 5.400	82 / 19.096

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	16	-	9	-	1	-	1	1	-	10	-	6	6	-	-	6	-	-	6	-	19	82
Out	-	-	-	-	-	-	-	-	1	-	16	-	-	9	-	1	-	2	-	-	10	-	12	-	-	6	-	-	6	19	82

**Footnotes:**  
 (1) HW/SW and HM&E Mods packages fluctuate from year to year according to the LPD Avail schedule; cost estimates dependent on the ship configuration for the avails during specific years and the magnitude of modification required during the availability. Modification to LPD 17 Class (17-22) include: Titanium Valve Replacement, Chlorinator and Dechlorinator and Branch Piping Modification on each ship. Procurement cost includes several bronze valve replacements with titanium valves, chlorinator and dechlorinator installs for each ship.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0946 - LPD Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - XX004 HM&E Electrical Modifications

<b>Models of Systems Affected:</b> HM&E Electrical Modifications	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	3.000	3.900	-	3.900	6.883	9.227	13.875	5.779	6.000	48.664
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	3.000	3.900	-	3.900	6.883	9.227	13.875	5.779	6.000	48.664
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	-	<b>3.000</b>	<b>3.900</b>	-	<b>3.900</b>	<b>6.883</b>	<b>9.227</b>	<b>13.875</b>	<b>5.779</b>	<b>6.000</b>	<b>48.664</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

[HM&E Electrical Upgrades] LPD 17 Class procurement and install of HM&E Electrical modifications including Obsolescence 4000Amp Circuit Breaker Replacement, Uninterrupted Power Supply (UPS) Improvements, Ship Service Diesel Generator( SSDG) improvement Mods and 60hz Redundancy/Reliability improvements.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy										<b>Date:</b> April 2013			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment					<b>P-1 Line Item Nomenclature:</b> 0946 - LPD Class Support Equipment					<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - XX004 HM&E Electrical Modifications			
<b>Models of Systems Affected:</b> HM&E Electrical Modifications				<b>Type Modification:</b> [No Modification Type Specified]					<b>Related RDT&amp;E PEs:</b>				

Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
XX004 HM&E Electrical Modifications												
B Kits												
Recurring												
1.1.1) HM&E Electrical Upgrades - NonOrganic <sup>(2)</sup>	- / -	- / -	3 / 3.000	2 / 0.900	- / -	2 / 0.900	2 / 5.883	2 / 5.227	2 / 8.875	4 / 3.000	- / -	15 / 26.885
<i>Subtotal Recurring</i>	- / -	- / -	3 / 3.000	2 / 0.900	- / -	2 / 0.900	2 / 5.883	2 / 5.227	2 / 8.875	4 / 3.000	- / -	15 / 26.885
<i>Total, XX004 HM&amp;E Electrical Modifications</i>	- / -	- / -	3 / 3.000	2 / 0.900	- / -	2 / 0.900	2 / 5.883	2 / 5.227	2 / 8.875	4 / 3.000	- / -	15 / 26.885
<b>Total Procurement, All Modifications</b>	- / -	- / -	3 / 3.000	2 / 0.900	- / -	2 / 0.900	2 / 5.883	2 / 5.227	2 / 8.875	4 / 3.000	- / -	15 / 26.885
<b>Total Procurement and Support</b>	-	-	3.000	0.900	-	0.900	5.883	5.227	8.875	3.000	-	26.885
XX004 HM&E Electrical Modifications Installation Cost	- / 0.000	- / -	- / -	- / 3.000	- / -	- / 3.000	- / 1.000	- / 4.000	- / 5.000	- / 2.779	- / 6.000	- / 21.779
<b>Total Installation Cost</b>	- / 0.000	- / -	- / -	- / 3.000	- / -	- / 3.000	- / 1.000	- / 4.000	- / 5.000	- / 2.779	- / 6.000	- / 21.779
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	-	<b>3.000</b>	<b>3.900</b>	-	<b>3.900</b>	<b>6.883</b>	<b>9.227</b>	<b>13.875</b>	<b>5.779</b>	<b>6.000</b>	<b>48.664</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment		<b>P-1 Line Item Nomenclature:</b> 0946 - LPD Class Support Equipment
		<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - XX004 HM&E Electrical Modifications

<b>Models of Systems Affected:</b> HM&E Electrical Modifications	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information:</b> XX004 HM&E Electrical Modifications	
Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime ( <i>in Months</i> ): 1	Production Leadtime ( <i>in Months</i> ): 8

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates		Apr 2013	Feb 2014				
Delivery Dates		Dec 2013	Feb 2015				

<b>Installation:</b> XX004 HM&E Electrical Modifications	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> HM&E Electrical Upgrades
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	3 / 3.000	- / -	3 / 3.000	- / -	- / -	- / -	- / -	- / -	3 / 3.000
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.000	- / -	- / -	- / -	- / -	2 / 1.000
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 4.000	- / -	- / -	- / -	2 / 4.000
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 5.000	- / -	- / -	2 / 5.000
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.779	- / -	2 / 2.779
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 6.000	4 / 6.000
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	3 / 3.000	- / -	3 / 3.000	2 / 1.000	2 / 4.000	2 / 5.000	2 / 2.779	4 / 6.000	15 / 21.779

Installation Schedule		FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
	APY	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	-	2	-	-	-	1	1	-	1	-	1	1	-	-	1	-	-	-	2	4	15
Out	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	2	-	-	1	1	-	1	-	1	-	-	-	2	4	15

**Footnotes:**  
 (2) HM&E Mod package fluctuates from year to year according to the LPD Avail schedule; cost estimates dependent on the ship configuration for the avails during specific years and the magnitude of modification required during the availability. Modification to LPD 17 Class (17-22) include: Titanium Valve Replacement, Chlorinator and Dechlorinator and Branch Piping Modification on each ship. Procurement cost includes several bronze valve replacements with titanium valves, chlorinator and dechlorinator installs for each ship.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0946 - LPD Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - XX005 - HM&E Survivability Modifications

<b>Models of Systems Affected:</b> HM&E Survivability Modifications	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	1.000	1.475	-	1.475	3.243	3.211	2.973	7.579	2.700	22.181
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	1.000	1.475	-	1.475	3.243	3.211	2.973	7.579	2.700	22.181
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	-	<b>1.000</b>	<b>1.475</b>	-	<b>1.475</b>	<b>3.243</b>	<b>3.211</b>	<b>2.973</b>	<b>7.579</b>	<b>2.700</b>	<b>22.181</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

[HM&E Survivability Modifications] LPD 17 Class procurement and install of HM&E Survivability modifications including Vulnerability Assessment for Integrated Condition Assessment System (ICAS), Low Pressure Air Compressor (LPAC), Medium Pressure Air Compressor (MPAC), Reverse Osmosis (RO), Reefer and Controllable Pitch Propeller (CPP).

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0946 - LPD Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - XX005 - HM&E Survivability Modifications

<b>Models of Systems Affected:</b> HM&E Survivability Modifications	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
XX005 - HM&E Survivability Modifications												
B Kits												
Recurring												
1.1.1) HM&E Survivability Modifications - NonOrganic <sup>(3)</sup>	- / -	- / -	3 / 1.000	2 / 0.975	- / -	2 / 0.975	2 / 2.243	2 / 1.711	2 / 1.973	4 / 4.800	- / -	15 / 12.702
<i>Subtotal Recurring</i>	- / -	- / -	3 / 1.000	2 / 0.975	- / -	2 / 0.975	2 / 2.243	2 / 1.711	2 / 1.973	4 / 4.800	- / -	15 / 12.702
<i>Total, XX005 - HM&amp;E Survivability Modifications</i>	- / -	- / -	3 / 1.000	2 / 0.975	- / -	2 / 0.975	2 / 2.243	2 / 1.711	2 / 1.973	4 / 4.800	- / -	15 / 12.702
<b>Total Procurement, All Modifications</b>	- / -	- / -	3 / 1.000	2 / 0.975	- / -	2 / 0.975	2 / 2.243	2 / 1.711	2 / 1.973	4 / 4.800	- / -	15 / 12.702
<b>Total Procurement and Support</b>	-	-	1.000	0.975	-	0.975	2.243	1.711	1.973	4.800	-	12.702
XX005 - HM&E Survivability Modifications Installation Cost	- / 0.000	- / -	- / -	- / 0.500	- / -	- / 0.500	- / 1.000	- / 1.500	- / 1.000	- / 2.779	- / 2.700	- / 9.479
<b>Total Installation Cost</b>	- / 0.000	- / -	- / -	- / 0.500	- / -	- / 0.500	- / 1.000	- / 1.500	- / 1.000	- / 2.779	- / 2.700	- / 9.479
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	<b>-</b>	<b>1.000</b>	<b>1.475</b>	<b>-</b>	<b>1.475</b>	<b>3.243</b>	<b>3.211</b>	<b>2.973</b>	<b>7.579</b>	<b>2.700</b>	<b>22.181</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0946 - LPD Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - XX005 - HM&E Survivability Modifications

<b>Models of Systems Affected:</b> HM&E Survivability Modifications	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: XX005 - HM&E Survivability Modifications**

Manufacturer Name: Various	Manufacturer Location: Various
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Administrative Leadtime ( <i>in Months</i> ): 1	Production Leadtime ( <i>in Months</i> ): 8
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Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates		Apr 2013	Feb 2014				
Delivery Dates		Dec 2013	Feb 2015				

**Installation: XX005 - HM&E Survivability Modifications**      **Method of Implementation: AIT**      **Installation Name: HM&E Survivability Modifications**

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	3 / 0.500	- / -	3 / 0.500	- / -	- / -	- / -	- / -	- / -	3 / 0.500
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.000	- / -	- / -	- / -	- / -	2 / 1.000
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.500	- / -	- / -	- / -	2 / 1.500
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.000	- / -	- / -	2 / 1.000
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.779	- / -	2 / 2.779
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 2.700	4 / 2.700
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	3 / 0.500	- / -	3 / 0.500	2 / 1.000	2 / 1.500	2 / 1.000	2 / 2.779	4 / 2.700	15 / 9.479

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	2	-	-	-	1	1	-	1	-	1	1	-	-	1	-	-	-	2	4	15
Out	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	2	-	-	1	1	-	1	-	1	-	-	-	2	4	15

Footnotes:

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0946 - LPD Class Support Equipment	<b>Modification Nomenclature</b> <i>(Modification Number - Modification Title):</i> 3 - XX005 - HM&E Survivability Modifications
<b>Models of Systems Affected:</b> HM&E Survivability Modifications	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
<p><sup>(3)</sup> HM&amp;E Mod package fluctuates from year to year according to the LPD Avail schedule; cost estimates dependent on the ship configuration for the avails during specific years and the magnitude of modification required during the availability. Modification to LPD 17 Class (17-22) include: Titanium Valve Replacement, Chlorinator and Dechlorinator and Branch Piping Modification on each ship. Procurement cost includes several bronze valve replacements with titanium valves, chlorinator and dechlorinator installs for each ship.</p>		

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0946 - LPD Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - XX006 - HM&E Mechanical/Auxiliary Modifications

<b>Models of Systems Affected:</b> HM&E Mechanical/Auxiliary Modifications	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	3.000	9.491	-	9.491	24.574	15.835	20.433	7.594	2.500	83.427
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	3.000	9.491	-	9.491	24.574	15.835	20.433	7.594	2.500	83.427
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	-	<b>3.000</b>	<b>9.491</b>	-	<b>9.491</b>	<b>24.574</b>	<b>15.835</b>	<b>20.433</b>	<b>7.594</b>	<b>2.500</b>	<b>83.427</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

[HM&E Mechanical/Auxiliary Modifications] LPD 17 Class procurement and install of HM&E Mechanical/Auxiliary modifications including Elevator Improvements, Main Propulsion Diesel Engine (MPDE) Lube Oil (LO) Filtration and Strainer Upgrades, Ship Service Diesel Generator (SSDG) Upgrades, Central Fresh Water (CFW)/ Jacket Water (JW) Valve Improvements, Steering Gear Improvements, RO Unit Improvement Modifications, Auxiliary Sea Water (ASW)/ Main Sea Water (MSW) Chlorinator Improvements, Knuckleboom Crane Improvements and Geislinger Coupling Improvements.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0946 - LPD Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - XX006 - HM&E Mechanical/Auxiliary Modifications

<b>Models of Systems Affected:</b> HM&E Mechanical/Auxiliary Modifications	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
XX006 - HM&E Mechanical/Auxiliary Modifications												
B Kits												
Recurring												
1.1.1) HM&E Mechanical/Auxiliary Modifications - NonOrganic <sup>(4)</sup>	- / -	- / -	3 / 3.000	2 / 5.525	- / -	2 / 5.525	2 / 16.600	2 / 9.871	2 / 14.464	8 / 2.588	- / -	19 / 52.048
<i>Subtotal Recurring</i>	- / -	- / -	3 / 3.000	2 / 5.525	- / -	2 / 5.525	2 / 16.600	2 / 9.871	2 / 14.464	8 / 2.588	- / -	19 / 52.048
<i>Total, XX006 - HM&amp;E Mechanical/Auxiliary Modifications</i>	- / -	- / -	3 / 3.000	2 / 5.525	- / -	2 / 5.525	2 / 16.600	2 / 9.871	2 / 14.464	8 / 2.588	- / -	19 / 52.048
<b>Total Procurement, All Modifications</b>	- / -	- / -	3 / 3.000	2 / 5.525	- / -	2 / 5.525	2 / 16.600	2 / 9.871	2 / 14.464	8 / 2.588	- / -	19 / 52.048
<b>Total Procurement and Support</b>	-	-	3.000	5.525	-	5.525	16.600	9.871	14.464	2.588	-	52.048
XX006 - HM&E Mechanical/Auxiliary Modifications Installation Cost	- / 0.000	- / -	- / -	- / 3.966	- / -	- / 3.966	- / 7.974	- / 5.964	- / 5.969	- / 5.006	- / 2.500	- / 31.379
<b>Total Installation Cost</b>	- / 0.000	- / -	- / -	- / 3.966	- / -	- / 3.966	- / 7.974	- / 5.964	- / 5.969	- / 5.006	- / 2.500	- / 31.379
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	-	<b>3.000</b>	<b>9.491</b>	-	<b>9.491</b>	<b>24.574</b>	<b>15.835</b>	<b>20.433</b>	<b>7.594</b>	<b>2.500</b>	<b>83.427</b>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0946 - LPD Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - XX006 - HM&E Mechanical/Auxiliary Modifications

<b>Models of Systems Affected:</b> HM&E Mechanical/Auxiliary Modifications	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: XX006 - HM&E Mechanical/Auxiliary Modifications**

Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime ( <i>in Months</i> ): 1				Production Leadtime ( <i>in Months</i> ): 8			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates		Apr 2013	Feb 2014				
Delivery Dates		Dec 2013	Feb 2015				

**Installation: XX006 - HM&E Mechanical/Auxiliary Modifications**      **Method of Implementation: AIT**      **Installation Name: HM&E Mechanical/Auxiliary Modifications**

<b>Installation Cost</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO</b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	3 / 3.966	- / -	3 / 3.966	- / -	- / -	- / -	- / -	- / -	3 / 3.966
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	2 / 7.974	- / -	- / -	- / -	- / -	2 / 7.974
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 5.964	- / -	- / -	- / -	2 / 5.964
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 5.969	- / -	- / -	2 / 5.969
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 5.006	- / -	2 / 5.006
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 2.500	8 / 2.500
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	- / -	- / -	- / -	3 / 3.966	- / -	3 / 3.966	2 / 7.974	2 / 5.964	2 / 5.969	2 / 5.006	8 / 2.500	19 / 31.379

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	2	-	-	-	1	1	-	1	-	1	1	-	-	1	-	-	-	2	8	19
Out	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	2	-	-	1	1	-	1	-	1	-	-	-	2	8	19

Footnotes:

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0946 - LPD Class Support Equipment	<b>Modification Nomenclature</b> <i>(Modification Number - Modification Title):</i> 4 - XX006 - HM&E Mechanical/Auxiliary Modifications
<b>Models of Systems Affected:</b> HM&E Mechanical/Auxiliary Modifications	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
<p><sup>(4)</sup> HM&amp;E Mod package fluctuates from year to year according to the LPD Avail schedule; cost estimates dependent on the ship configuration for the avails during specific years and the magnitude of modification required during the availability. Modification to LPD 17 Class (17-22) include: Titanium Valve Replacement, Chlorinator and Dechlorinator and Branch Piping Modification on each ship. Procurement cost includes several bronze valve replacements with titanium valves, chlorinator and dechlorinator installs for each ship.</p>		

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0946 - LPD Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 5 - XX007 SWAN-CANES Integration

<b>Models of Systems Affected:</b> LPD 17 Class SWAN-CANES Integration	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	9.100	1.000	-	1.000	6.300	14.000	18.423	3.000	2.000	53.823
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	9.100	1.000	-	1.000	6.300	14.000	18.423	3.000	2.000	53.823
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>0.000</b>	<b>-</b>	<b>9.100</b>	<b>1.000</b>	<b>-</b>	<b>1.000</b>	<b>6.300</b>	<b>14.000</b>	<b>18.423</b>	<b>3.000</b>	<b>2.000</b>	<b>53.823</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

[SWAN-CANES Integration] The results of the Ship Wide Area Network (SWAN)/ Consolidated Afloat Networks and Enterprise Services (CANES) study provided an updated configuration and use of the LPD 17 Class network systems. SWAN modification funding is provided for converting SWAN to an HM&E only network in support of CANES installation and also to address SWAN obsolescence, tech refresh, reliability issues, and synergistically resolves SWAN performance concerns. These modifications can include up to six distinct updates that can be combined or separated to accommodate the individual ships' schedules and at least one ship does not require all modifications due to current configuration.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0946 - LPD Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 5 - XX007 SWAN-CANES Integration

<b>Models of Systems Affected:</b> LPD 17 Class SWAN-CANES Integration	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
XX007 SWAN-CANES Integration												
B Kits												
Recurring												
1.1.1) SWAN-CANES Integration - NonOrganic	- / -	- / -	4 / 6.100	- / -	- / -	- / -	9 / 3.300	13 / 10.800	3 / 10.423	1 / 1.000	- / -	30 / 31.623
<i>Subtotal Recurring</i>	- / -	- / -	4 / 6.100	- / -	- / -	- / -	9 / 3.300	13 / 10.800	3 / 10.423	1 / 1.000	- / -	30 / 31.623
Non-Recurring												
1.2.1) SWAN-CANES Integration - Organic	- / -	- / -	- / -	- / 1.000	- / -	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / 1.000
<i>Subtotal Non-Recurring</i>	- / -	- / -	- / -	- / 1.000	- / -	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / 1.000
<i>Total, XX007 SWAN-CANES Integration</i>	- / -	- / -	4 / 6.100	- / 1.000	- / -	- / 1.000	9 / 3.300	13 / 10.800	3 / 10.423	1 / 1.000	- / -	30 / 32.623
<i>Total Procurement, All Modifications</i>	- / -	- / -	4 / 6.100	- / 1.000	- / -	- / 1.000	9 / 3.300	13 / 10.800	3 / 10.423	1 / 1.000	- / -	30 / 32.623
<i>Total Procurement and Support</i>	-	-	6.100	1.000	-	1.000	3.300	10.800	10.423	1.000	-	32.623
XX007 SWAN-CANES Integration Installation Cost	- / 0.000	- / -	- / 3.000	- / -	- / -	- / -	- / 3.000	- / 3.200	- / 8.000	- / 2.000	- / 2.000	- / 21.200
<i>Total Installation Cost</i>	- / 0.000	- / -	- / 3.000	- / -	- / -	- / -	- / 3.000	- / 3.200	- / 8.000	- / 2.000	- / 2.000	- / 21.200
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	<b>-</b>	<b>9.100</b>	<b>1.000</b>	<b>-</b>	<b>1.000</b>	<b>6.300</b>	<b>14.000</b>	<b>18.423</b>	<b>3.000</b>	<b>2.000</b>	<b>53.823</b>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0946 - LPD Class Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 5 - XX007 SWAN-CANES Integration

<b>Models of Systems Affected:</b> LPD 17 Class SWAN-CANES Integration	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: XX007 SWAN-CANES Integration**

Manufacturer Name: Raytheon	Manufacturer Location: San Diego, CA
Administrative Leadtime ( <i>in Months</i> ): 2	Production Leadtime ( <i>in Months</i> ): 5

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates		Apr 2013					
Delivery Dates		Sep 2013					

**Installation: XX007 SWAN-CANES Integration**      **Method of Implementation: AIT**      **Installation Name: SWAN-CANES Integration**

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	4 / 3.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 3.000
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	4 / 3.000	5 / 3.200	- / -	- / -	- / -	9 / 6.200
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 6.000	- / -	- / -	13 / 6.000
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.000	1 / 2.000	- / -	3 / 4.000
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.000	1 / 2.000
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	4 / 3.000	- / -	- / -	- / -	4 / 3.000	5 / 3.200	15 / 8.000	1 / 2.000	1 / 2.000	30 / 21.200

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	-	-	-	-	-	2	2	-	5	-	-	3	4	6	2	1	-	-	-	1	30
Out	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	2	2	-	5	-	-	3	4	6	2	1	-	-	1	30

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**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0950 - Strategic Platform Support Equip

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	64.508	25.048	16.257	12.986	-	12.986	14.176	13.954	14.219	14.467	-	175.615
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	64.508	25.048	16.257	12.986	-	12.986	14.176	13.954	14.219	14.467	-	175.615
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>64.508</b>	<b>25.048</b>	<b>16.257</b>	<b>12.986</b>	<b>-</b>	<b>12.986</b>	<b>14.176</b>	<b>13.954</b>	<b>14.219</b>	<b>14.467</b>	<b>-</b>	<b>175.615</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

[P40A / HH009 EQUIPMENT HM&E & SWS/SS ALTERATION ]: 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 SWSS 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.

[P40A / HH012 EQUIPMENT HM&E TRIDENT ENGINEERING AVAILABILITY ]: 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

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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2014 Navy	<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0950 - Strategic Platform Support Equip

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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**MDAP/MAIS Code(s):**

required to formulate or procure complex tools and fixtures required to reduce EA scheduled durations. This program also provides funding for installation of Depot level alterations packages, 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.

[P40A / HH0GN SSGN MODIFICATIONS]: 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&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.

[P40A / SOF HH0GN ]: 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. Starting in FY14, installation of SSBN/SSGN Ship Control Station (SCS) OER upgrades.

[P3A / SSTG ROTORS OHIO CLASS PROCUREMENT]: 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&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.

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Strategic Platform Support Equip	P40A, P5A				47.309			19.346			10.353			7.165			-			7.165
1 - EQUIPMENT HM&E SWS/SS ALTERATION SSBN SWSS OER UPGRADE	P3A				0.000			2.665			0.946			0.939			-			0.939
2 - EQUIPMENT HM&E SWS/SS ALTERATION SCS SSBN/SSGN PROC	P3A				0.000			-			1.336			4.882			-			4.882
3 - SSTG ROTORS OHIO CLASS PROCUREMENT	P3A				17.199			3.037			3.622			-			-			-
<b>Total Gross/Weapon System Cost</b>					<b>64.508</b>			<b>25.048</b>			<b>16.257</b>			<b>12.986</b>			<b>-</b>			<b>12.986</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment **P-1 Line Item Nomenclature:** 0950 - Strategic Platform Support Equip

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Item Schedule		ID CD	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Strategic Platform Support Equip	P40A, P5A				-			-			-			-			-			-
1 - EQUIPMENT HM&E SWS/SS ALTERATION SSBN SWSS OER UPGRADE	P3A			0.941			0.945			-			-			-				6.436
2 - EQUIPMENT HM&E SWS/SS ALTERATION SCS SSBN/SSGN PROC	P3A			7.494			8.194			8.471			8.615			-				38.992
3 - SSTG ROTORS OHIO CLASS PROCUREMENT	P3A			-			-			-			-			-				23.858
<b>Total Gross/Weapon System Cost</b>				<b>14.176</b>			<b>13.954</b>			<b>14.219</b>			<b>14.467</b>			<b>-</b>				<b>175.615</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

**UNCLASSIFIED**

Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy																	Date: April 2013			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment						P-1 Line Item Nomenclature: 0950 - Strategic Platform Support Equip						Aggregated Item Name: Strategic Platform Support Equip								
Items († indicates the presence of a P-5A)	ID CD	MDAP/ MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) HH009 EQUIPMENT HM&amp;E &amp; SWS/SS ALTERATION (1)</b>																				
1.1) SCS PY SHIPALT DEV	A		-	-	22.927	-	-	10.194	-	-	5.883	-	-	2.621	-	-	-	-	-	2.621
<i>Subtotal 1) HH009 EQUIPMENT HM&amp;E &amp; SWS/SS ALTERATION</i>					22.927		10.194		5.883		2.621		-		-		-		2.621	
<b>2) HH012 EQUIPMENT HM&amp;E TRIDENT ENGINEERING AVAILABILITY (2)</b>																				
† 2.1) SHIPALT INSTALLATION AND ENGINEERING SERVICES	A		9,227K	1	9.227	2,035K	1	2.035	1,555K	1	1.555	1,581K	1	1.581	-	-	-	1,581K	1	1.581
† 2.2) CCS EQUIPMENT REFURBISHMENT & SHIPBOARD TESTING	A		8,045K	1	8.045	1,648K	1	1.648	1,273K	1	1.273	1,279K	1	1.279	-	-	-	1,279K	1	1.279
† 2.3) HM&E EQUIPMENT REFURBISHMENT & SHIPBOARD TESTING	A		4,865K	1	4.865	1,163K	1	1.163	896,000.00	1	0.896	903,000.00	1	0.903	-	-	-	903,000.00	1	0.903
<i>Subtotal 2) HH012 EQUIPMENT HM&amp;E TRIDENT ENGINEERING AVAILABILITY</i>					22.137		4.846		3.724		3.763		-		-		-		3.763	
<b>3) HH0GN SSGN MODIFICATIONS (3)</b>																				
3.1) SOF UPGRADES	A		-	-	0.788	-	-	0.406	-	-	0.488	-	-	0.503	-	-	-	-	-	0.503
<i>Subtotal 3) HH0GN SSGN MODIFICATIONS</i>					0.788		0.406		0.488		0.503		-		-		-		0.503	
<b>4) SOF HH0GN</b>																				
4.1) SOF UPGRADES (4)	A		-	-	1.457	-	-	0.262	-	-	0.258	-	-	0.278	-	-	-	-	-	0.278
<i>Subtotal 4) SOF HH0GN</i>					1.457		0.262		0.258		0.278		-		-		-		0.278	
<b>5) HH013 SSTG Rotor MSS (5)</b>																				
† 5.1) OHIO CLASS PROCUREMENT MSS	A		-	-	-	3,638K	1	3.638	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 5) HH013 SSTG Rotor MSS</i>					-		3.638		-		-		-		-		-		-	
<b>Total</b>					<b>47.309</b>		<b>19.346</b>		<b>10.353</b>		<b>7.165</b>		<b>-</b>		<b>-</b>		<b>-</b>		<b>7.165</b>	

**UNCLASSIFIED**

**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0950 - Strategic Platform Support Equip

**Aggregated Item Name:**  
Strategic Platform Support Equip

Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) HH009 EQUIPMENT HM&amp;E &amp; SWS/SS ALTERATION (1)</b>																				
1.1) SCS PY SHIPALT DEV	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 1) HH009 EQUIPMENT HM&amp;E &amp; SWS/SS ALTERATION</i>					-			-			-			-			-			-
<b>2) HH012 EQUIPMENT HM&amp;E TRIDENT ENGINEERING AVAILABILITY (2)</b>																				
† 2.1) SHIPALT INSTALLATION AND ENGINEERING SERVICES	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 2.2) CCS EQUIPMENT REFURBISHMENT & SHIPBOARD TESTING	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 2.3) HM&E EQUIPMENT REFURBISHMENT & SHIPBOARD TESTING	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) HH012 EQUIPMENT HM&amp;E TRIDENT ENGINEERING AVAILABILITY</i>					-			-			-			-			-			-
<b>3) HH0GN SSGN MODIFICATIONS (3)</b>																				
3.1) SOF UPGRADES	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 3) HH0GN SSGN MODIFICATIONS</i>					-			-			-			-			-			-
<b>4) SOF HH0GN</b>																				
4.1) SOF UPGRADES (4)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 4) SOF HH0GN</i>					-			-			-			-			-			-
<b>5) HH013 SSTG Rotor MSS (5)</b>																				
† 5.1) OHIO CLASS PROCUREMENT MSS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 5) HH013 SSTG Rotor MSS</i>					-			-			-			-			-			-
<b>Total</b>					-			-			-			-			-			-

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<b>Exhibit P-40A, Budget Item Justification For Aggregated Items:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0950 - Strategic Platform Support Equip	<b>Aggregated Item Name:</b> Strategic Platform Support Equip

**Footnotes:**

- (1) N/A
- (2) N/A
- (3) N/A
- (4) Beginning in FY11, funds are provided for installation of Submarine Special Operations Forces (SOF) unique system components.
- (5) Provides for the installation of SSTG Rotors on the OHIO Class Submarines, FY12-13.

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Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Navy										Date: April 2013		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment				P-1 Line Item Nomenclature: 0950 - Strategic Platform Support Equip				Aggregated Item Name: Strategic Platform Support Equip				
Items	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>2) HH012 EQUIPMENT HM&amp;E TRIDENT ENGINEERING AVAILABILITY</b>												
2.1) SHIPALT INSTALLATION AND ENGINEERING SERVICES		2011	ELECTRIC BOAT / NEW LONDON	C / CPFF	NAVSEA	Apr 2011	Aug 2011	1	1,997K	Y		
2.1) SHIPALT INSTALLATION AND ENGINEERING SERVICES		2012	ELECTRIC BOAT / NEW LONDON	C / CPFF	NAVSEA	Apr 2012	Aug 2012	1	2,035K	Y		
2.1) SHIPALT INSTALLATION AND ENGINEERING SERVICES		2013	ELECTRIC BOAT / NEW LONDON	C / CPFF	NAVSEA	Apr 2013	Aug 2013	1	1,555K	Y		
2.1) SHIPALT INSTALLATION AND ENGINEERING SERVICES		2014	ELECTRIC BOAT / NEW LONDON	C / CPFF	NAVSEA	Apr 2014	Aug 2014	1	1,581K	N		
2.2) CCS EQUIPMENT REFURBISHMENT & SHIPBOARD TESTING		2011	NUWC Newport / RI	Various	NAVSEA	Apr 2011	Aug 2011	1	1,620K	Y		
2.2) CCS EQUIPMENT REFURBISHMENT & SHIPBOARD TESTING		2012	NUWC Newport / RI	Various	NAVSEA	Apr 2012	Aug 2012	1	1,648K	Y		
2.2) CCS EQUIPMENT REFURBISHMENT & SHIPBOARD TESTING		2013	NUWC Newport / RI	Various	NAVSEA	Apr 2013	Aug 2013	1	1,273K	Y		
2.2) CCS EQUIPMENT REFURBISHMENT & SHIPBOARD TESTING		2014	NUWC Newport / RI	Various	NAVSEA	Apr 2014	Aug 2014	1	1,279K	N		
2.3) HM&E EQUIPMENT REFURBISHMENT & SHIPBOARD TESTING		2011	NSWC/CD / PHILADELPHIA, PA	Various	NAVSEA	Apr 2011	Aug 2011	1	1,134K	Y		
2.3) HM&E EQUIPMENT REFURBISHMENT & SHIPBOARD TESTING		2012	NSWC/CD / PHILADELPHIA, PA	Various	NAVSEA	Apr 2012	Aug 2012	1	1,163K	Y		
2.3) HM&E EQUIPMENT REFURBISHMENT & SHIPBOARD TESTING		2013	NSWC/CD / PHILADELPHIA, PA	Various	NAVSEA	Apr 2013	Aug 2013	1	896,000.00	Y		
2.3) HM&E EQUIPMENT REFURBISHMENT & SHIPBOARD TESTING		2014	NSWC/CD / PHILADELPHIA, PA	Various	NAVSEA	Apr 2014	Aug 2014	1	903,000.00	N		
<b>5) HH013 SSTG Rotor MSS</b>												
5.1) OHIO CLASS PROCUREMENT MSS		2012	ELECTRIC BOAT / NEW LONDON	C / CPFF	NAVSEA	Apr 2012	Apr 2014	1	3,638K	Y		

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0950 - Strategic Platform Support Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - EQUIPMENT HM&E SWS/SS ALTERATION SSBN SWSS OER UPGRADE

**Models of Systems Affected:** [No Model Specified]      **Type Modification:** [No Modification Type Specified]      **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	2.665	0.946	0.939	-	0.939	0.941	0.945	-	-	-	6.436
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	2.665	0.946	0.939	-	0.939	0.941	0.945	-	-	-	6.436
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>2.665</b>	<b>0.946</b>	<b>0.939</b>	<b>-</b>	<b>0.939</b>	<b>0.941</b>	<b>0.945</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>6.436</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0950 - Strategic Platform Support Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - EQUIPMENT HM&E SWS/SS ALTERATION SSBN SWSS OER UPGRADE

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
EQUIPMENT HM&E SWS/SS ALTERATION SSBN SWSS OER UPGRADE												
B Kits												
Recurring												
1.1.1 EQUIPMENT HM&E & SSWS/SS ALTERATION SSBN SWSSOER UPGRADE - NonOrganic	- / -	4 / 1.500	2 / 0.500	2 / 0.500	- / -	2 / 0.500	2 / 0.500	2 / 0.500	- / -	- / -	- / -	12 / 3.500
<i>Subtotal Recurring</i>	- / -	4 / 1.500	2 / 0.500	2 / 0.500	- / -	2 / 0.500	2 / 0.500	2 / 0.500	- / -	- / -	- / -	12 / 3.500
<i>Total, EQUIPMENT HM&amp;E SWS/SS ALTERATION SSBN SWSS OER UPGRADE</i>	- / -	4 / 1.500	2 / 0.500	2 / 0.500	- / -	2 / 0.500	2 / 0.500	2 / 0.500	- / -	- / -	- / -	12 / 3.500
<b>Total Procurement, All Modifications</b>	- / -	4 / 1.500	2 / 0.500	2 / 0.500	- / -	2 / 0.500	2 / 0.500	2 / 0.500	- / -	- / -	- / -	12 / 3.500
<b>Total Procurement and Support</b>	-	1.500	0.500	0.500	-	0.500	0.500	0.500	-	-	-	3.500
EQUIPMENT HM&E SWS/SS ALTERATION SSBN SWSS OER UPGRADE Installation Cost	- / 0.000	- / 1.165	- / 0.446	- / 0.439	- / -	- / 0.439	- / 0.441	- / 0.445	- / -	- / -	- / -	- / 2.936
<b>Total Installation Cost</b>	- / 0.000	- / 1.165	- / 0.446	- / 0.439	- / -	- / 0.439	- / 0.441	- / 0.445	- / -	- / -	- / -	- / 2.936
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	<b>2.665</b>	<b>0.946</b>	<b>0.939</b>	<b>-</b>	<b>0.939</b>	<b>0.941</b>	<b>0.945</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>6.436</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0950 - Strategic Platform Support Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - EQUIPMENT HM&E SWS/SS ALTERATION SSBN SWSS OER UPGRADE

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: EQUIPMENT HM&E SWS/SS ALTERATION SSBN SWSS OER UPGRADE**

Manufacturer Name: Electric Boat	Manufacturer Location: Groton, CT
Administrative Leadtime ( <i>in Months</i> ): 0	Production Leadtime ( <i>in Months</i> ): 4

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Feb 2012	Feb 2013	Feb 2014	Feb 2015	Feb 2016		
Delivery Dates	Jun 2012	Jun 2013	Jun 2014	Jun 2015	Jun 2016		

<b>Installation:</b> EQUIPMENT HM&E SWS/SS ALTERATION SSBN SWSS OER UPGRADE	<b>Method of Implementation:</b> [none specified]	<b>Installation Name:</b> EQUIPMENT HM&E & SSWS/SS ALTERATION SSBN SWSSOER UPGRADE
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	4 / 1.165	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.165
FY 2013	- / -	- / -	2 / 0.446	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.446
FY 2014	- / -	- / -	- / -	2 / 0.439	- / -	2 / 0.439	- / -	- / -	- / -	- / -	- / -	2 / 0.439
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.441	- / -	- / -	- / -	- / -	2 / 0.441
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.445	- / -	- / -	- / -	2 / 0.445
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	4 / 1.165	2 / 0.446	2 / 0.439	- / -	2 / 0.439	2 / 0.441	2 / 0.445	- / -	- / -	- / -	12 / 2.936

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	-	-	-	2	-	-	-	-	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	4	-	-	-	-	2	-	-	-	-	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0950 - Strategic Platform Support Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - EQUIPMENT HM&E SWS/SS ALTERATION SCS SSBN/SSGN PROC

**Models of Systems Affected:** [No Model Specified]      **Type Modification:** [No Modification Type Specified]      **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	1.336	4.882	-	4.882	7.494	8.194	8.471	8.615	-	38.992
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	1.336	4.882	-	4.882	7.494	8.194	8.471	8.615	-	38.992
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	-	<b>1.336</b>	<b>4.882</b>	-	<b>4.882</b>	<b>7.494</b>	<b>8.194</b>	<b>8.471</b>	<b>8.615</b>	-	<b>38.992</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

SSBN Ship Control Obsolete Equipment Replacement - Perform 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.

[EQUIPMENT HM&E SWS/SS ALTERATION SCS SSBN/SSGN PROC] Installations of this ShipAlt are accomplished during SSBN refits, SSBN Extended Refit Periods (ERP), SSGN Major Maintenance Periods (MMP), and SSBN Engineered Refueling Overhauls (ERO). Installation do not complete until the availability completes. Thus the installation duration ranges from 90 days for refit installations to 821 days for ERO installations.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0950 - Strategic Platform Support Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - EQUIPMENT HM&E SWS/SS ALTERATION SCS SSBN/SSGN PROC

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
EQUIPMENT HM&E SWS/SS ALTERATION SCS SSBN/SSGN PROC												
B Kits												
Recurring												
1.1.1) EQUIPMENT HM&E SWS/SS ALTERATION SCS SSBN/SSGN PROC - NonOrganic	- / -	- / -	1 / 1.336	3 / 4.337	- / -	3 / 4.337	4 / 5.816	4 / 5.837	4 / 6.036	4 / 6.137	- / -	20 / 29.499
1.1.2) SCS SSBN/SSGN INSTALLATION DSA - NonOrganic	- / -	- / -	- / -	- / 0.087	- / -	- / 0.087	- / 0.281	- / 0.395	- / 0.408	- / 0.413	- / -	- / 1.584
<b>Subtotal Recurring</b>	- / -	- / -	1 / 1.336	3 / 4.424	- / -	3 / 4.424	4 / 6.097	4 / 6.232	4 / 6.444	4 / 6.550	- / -	20 / 31.083
<i>Total, EQUIPMENT HM&amp;E SWS/SS ALTERATION SCS SSBN/SSGN PROC</i>	- / -	- / -	1 / 1.336	3 / 4.424	- / -	3 / 4.424	4 / 6.097	4 / 6.232	4 / 6.444	4 / 6.550	- / -	20 / 31.083
<b>Total Procurement, All Modifications</b>	- / -	- / -	1 / 1.336	3 / 4.424	- / -	3 / 4.424	4 / 6.097	4 / 6.232	4 / 6.444	4 / 6.550	- / -	20 / 31.083
<b>Total Procurement and Support</b>	-	-	1.336	4.424	-	4.424	6.097	6.232	6.444	6.550	-	31.083
EQUIPMENT HM&E SWS/SS ALTERATION SCS SSBN/SSGN PROC Installation Cost	- / 0.000	- / -	- / -	- / 0.458	- / -	- / 0.458	- / 1.397	- / 1.962	- / 2.027	- / 2.065	- / -	- / 7.909
<b>Total Installation Cost</b>	- / 0.000	- / -	- / -	- / 0.458	- / -	- / 0.458	- / 1.397	- / 1.962	- / 2.027	- / 2.065	- / -	- / 7.909
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	-	<b>1.336</b>	<b>4.882</b>	-	<b>4.882</b>	<b>7.494</b>	<b>8.194</b>	<b>8.471</b>	<b>8.615</b>	-	<b>38.992</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0950 - Strategic Platform Support Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - EQUIPMENT HM&E SWS/SS ALTERATION SCS SSBN/SSGN PROC

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information:** EQUIPMENT HM&E SWS/SS ALTERATION SCS SSBN/SSGN PROC

Manufacturer Name: Electric Boat	Manufacturer Location: Groton, CT
Administrative Leadtime ( <i>in Months</i> ): 3	Production Leadtime ( <i>in Months</i> ): 12

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates		Jul 2013	Jul 2014	Jul 2015	Jul 2016	Jul 2017	Jul 2018
Delivery Dates		Jul 2014	Jul 2015	Jul 2016	Jul 2017	Jul 2018	Jul 2019

<b>Installation:</b> EQUIPMENT HM&E SWS/SS ALTERATION SCS SSBN/SSGN PROC	<b>Method of Implementation:</b> [none specified]	<b>Installation Name:</b> EQUIPMENT HM&E SWS/SS ALTERATION SCS SSBN/SSGN PROC
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	1 / 0.458	- / -	1 / 0.458	- / -	- / -	- / -	- / -	- / -	1 / 0.458
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.397	- / -	- / -	- / -	- / -	3 / 1.397
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.962	- / -	- / -	- / -	4 / 1.962
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 2.027	- / -	- / -	4 / 2.027
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 2.065	- / -	4 / 2.065
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / -	4 / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	1 / 0.458	- / -	1 / 0.458	3 / 1.397	4 / 1.962	4 / 2.027	4 / 2.065	4 / -	20 / 7.909

Installation Schedule																															
	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	3	-	-	-	4	-	-	-	1	2	1	-	2	1	1	4	20
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	3	1	-	-	1	1	1	1	2	-	8	20

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0950 - Strategic Platform Support Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - SSTG ROTORS OHIO CLASS PROCUREMENT

**Models of Systems Affected:** [No Model Specified]      **Type Modification:** [No Modification Type Specified]      **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	17.199	3.037	3.622	-	-	-	-	-	-	-	-	23.858
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	17.199	3.037	3.622	-	-	-	-	-	-	-	-	23.858
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>17.199</b>	<b>3.037</b>	<b>3.622</b>	-	-	-	-	-	-	-	-	<b>23.858</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

The SSTG Rotors replace obsolete SSTG Components that are reaching the end of their design life. This eliminates the potential for catastrophic failure. This includes procurement of 1 rotor (one half of a shipset) for a Major Shore Spare (MSS).

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0950 - Strategic Platform Support Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - SSTG ROTORS OHIO CLASS PROCUREMENT

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
SSTG ROTORS OHIO CLASS PROCUREMENT												
B Kits												
Recurring												
1.1.1) SSTG ROTORS OHIO CLASS PROCURMENT - NonOrganic <sup>(6)</sup>	3 / 14.460	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 14.460
<i>Subtotal Recurring</i>	3 / 14.460	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 14.460
<i>Total, SSTG ROTORS OHIO CLASS PROCUREMENT</i>	3 / 14.460	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 14.460
<i>Total Procurement, All Modifications</i>	3 / 14.460	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 14.460
<i>Total Procurement and Support</i>	14.460	-	-	-	-	-	-	-	-	-	-	14.460
SSTG ROTORS OHIO CLASS PROCUREMENT Installation Cost	- / 2.739	- / 3.037	- / 3.622	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.398
<i>Total Installation Cost</i>	- / 2.739	- / 3.037	- / 3.622	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.398
<b>Total Cost (Procurement + Support + Installation)</b>	<b>17.199</b>	<b>3.037</b>	<b>3.622</b>	<b>-</b>	<b>23.858</b>							

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0950 - Strategic Platform Support Equip	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - SSTG ROTORS OHIO CLASS PROCUREMENT

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: SSTG ROTORS OHIO CLASS PROCUREMENT**

Manufacturer Name: Electric Boat	Manufacturer Location: Groton, CT
Administrative Leadtime ( <i>in Months</i> ): 3	Production Leadtime ( <i>in Months</i> ): 24

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates							
Delivery Dates							

**Installation: SSTG ROTORS OHIO CLASS PROCUREMENT**      **Method of Implementation:** [none specified]      **Installation Name:** SSTG ROTORS OHIO CLASS PROCURMENT

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	1 / 2.739	1 / 3.037	1 / 3.622	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 9.398
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 2.739	1 / 3.037	1 / 3.622	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 9.398

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**Footnotes:**

(6) 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.

**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0955 - Deep Subm Sys Proj (DSSP) Equip

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	126.863	2.594	3.630	2.455	-	2.455	2.914	2.912	2.858	2.909	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	126.863	2.594	3.630	2.455	-	2.455	2.914	2.912	2.858	2.909	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>126.863</b>	<b>2.594</b>	<b>3.630</b>	<b>2.455</b>	<b>-</b>	<b>2.455</b>	<b>2.914</b>	<b>2.912</b>	<b>2.858</b>	<b>2.909</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

The Submarine Escape and Rescue 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 Submarine Escape and Rescue 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. Submarine Escape and Rescue 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.

SOURCES: 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 requirement of the Submarine Escape and Rescue Program. Accordingly, sole source contracts are sometimes required; however, where possible, contracting via open competition is utilized.

REFERENCES:

Acquisition Plans 584-87 Revision 7 approved August 2000. Acquisition plan for Submarine Escape and Rescue is reviewed twice annually by the Submarine Escape and Rescue Review Group (SERRG).

[P40A / HJ030 - RESCUE SUPPORT EQUIPMENT]: INTERVENTION SYSTEMS (ATMOSPHERIC DIVING SYSTEM (ADS)/REMOTE OPERATED VEHICLE (ROV))/SUBMARINE RESCUE DIVING and RECOMPRESSION SYSTEM (SRDRS)/SUBMARINE RESCUE CHAMBER (SRC)

Intervention assets (ADS/ROV) are required to support the SRDRS and SRC world-wide rescue capability mission. Intervention assets are 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 ADS is a modified COTS one-man, one atmosphere diving system. An initiative is in process to transition from the ADS manned system to an unmanned ROV to reduce operational risk; full transition is scheduled for FY15. SRC provides shallow water rescue capability. SRDRS is the deep water rescue vehicle and will be delivered in increments. The Submarine Rescue System-Rescue Capable System (SRS-RCS) completed OPEVAL in FY08 and is currently the deep water 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). Full Operational Capability (FOC) is scheduled for FY15.

SURVIVABILITY

**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0955 - Deep Subm Sys Proj (DSSP) Equip

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

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.

[P40A / HJ100 - SUBMARINE ESCAPE & IMMERSION EQUIPMENT]: SUBMARINE ESCAPE & IMMERSION EQUIPMENT (SEIE)  
The SEIE is used by a submariner to escape from a disabled submarine and survive on the surface until rescued. The system, 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 Steinke Hood escape appliance. The SEIE increases the escape depth to 600 FSW and provides thermal protection to the user from hypothermia. Also includes mandatory escape assistance devices for all escape trunk hatches to ensure safe escape by personnel from the disabled submarine.

[P40A / HJ927 - EQUIPMENT INSTALLATION]: EQUIPMENT INSTALLATION (HJ927)  
These funds are for the installation of the Submarine Escape and Rescue Program equipment, as well as the SEIE equipment.

[P40A / HJINS - EQUIPMENT INSTALLATION]: EQUIPMENT INSTALLATION (HJINS)  
These funds are for the installation of the Submarine Escape and Rescue Program equipment, as well as the SEIE equipment.

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Deep Subm Sys Proj (DSSP) Equip	P40A				126.863			2.594			3.630			2.455			-			2.455
<b>Total Gross/Weapon System Cost</b>					<b>126.863</b>			<b>2.594</b>			<b>3.630</b>			<b>2.455</b>			<b>-</b>			<b>2.455</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

**UNCLASSIFIED**

<b>Exhibit P-40A, Budget Item Justification For Aggregated Items:</b> PB 2014 Navy															<b>Date:</b> April 2013				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment										<b>P-1 Line Item Nomenclature:</b> 0955 - Deep Subm Sys Proj (DSSP) Equip					<b>Aggregated Item Name:</b> Deep Subm Sys Proj (DSSP) Equip				

Items	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) HJ030 - RESCUE SUPPORT EQUIPMENT</b>																				
1.1) Vehicles Upgrades	A		-	-	0.055	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2) ADS LARS 1	A		-	-	0.508	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3) SRDRS Spares and Tools	A		-	-	4.335	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.4) ADS Suit 1 Upgrade/Cert	A		-	-	0.600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.5) LARS Deck Skid	A		-	-	0.491	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.6) SRC Materials	A		-	-	0.498	-	-	0.100	-	-	0.104	-	-	0.107	-	-	-	-	-	0.107
1.7) SRDRS System Upgrade and Upgrade Spares <sup>(1)</sup>	A		-	-	19.780	-	-	2.494	-	-	3.526	-	-	2.348	-	-	-	-	-	2.348
1.8) ADS Upgrades	A		-	-	14.238	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.9) UMV Upgrades	A		-	-	0.117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.10) SRDRS Mooring System Upgrade	A		-	-	1.006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.11) Upper Hatch Linkage Upgrades	A		-	-	2.077	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 1) HJ030 - RESCUE SUPPORT EQUIPMENT</i>					43.705			2.594			3.630			2.455			-			2.455
<b>2) HJ100 - SUBMARINE ESCAPE &amp; IMMERSION EQUIPMENT</b>																				
2.1) LA Class SEIE Equipment Upgrade	A		-	-	0.343	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.2) LA Class SEIE Suit Sets	A		-	-	36.238	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) HJ100 - SUBMARINE ESCAPE &amp; IMMERSION EQUIPMENT</i>					36.581			-			-			-			-			-
<b>3) HJ927 - EQUIPMENT INSTALLATION</b>																				
3.1) Install of Equipment (FMP)	A		-	-	44.484	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 3) HJ927 - EQUIPMENT INSTALLATION</i>					44.484			-			-			-			-			-
<b>4) HJINS - EQUIPMENT INSTALLATION</b>																				
4.1) Install of Equipment	A		-	-	2.093	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0955 - Deep Subm Sys Proj (DSSP) Equip	<b>Aggregated Item Name:</b> Deep Subm Sys Proj (DSSP) Equip
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Items	ID CD	MDAP/ MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)															
Subtotal 4) HJINS - EQUIPMENT INSTALLATION					2.093			-			-									-
<b>Total</b>					<b>126.863</b>			<b>2.594</b>			<b>3.630</b>			<b>2.455</b>					<b>-</b>	<b>2.455</b>

**Footnotes:**  
 (1) Increased funding levels in FY11 and FY13 support Submarine Rescue Diving and Recompression System (SRDRS) upgrades including Rescue Capable System design improvements for integration with Transfer Under pressure (TUP) and transition from the manned Atmospheric Diving System (ADS) to the unmanned Remote Operated Vehicle (ROV).

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**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0960 - CG Modernization

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,445.608	557.503	101.000	10.539	-	10.539	79.058	10.992	-	-	-	2,204.700
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	1,445.608	557.503	101.000	10.539	-	10.539	79.058	10.992	-	-	-	2,204.700
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>1,445.608</b>	<b>557.503</b>	<b>101.000</b>	<b>10.539</b>	<b>-</b>	<b>10.539</b>	<b>79.058</b>	<b>10.992</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,204.700</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	0.668	-	0.988	-	0.988	-	-	-	-	-	1.656
Flyaway Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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 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.

Common equipment procurements made in prior years for Cruiser Modernization will be utilized for one Destroyer Modernization in FY14 and one Cruiser Modernization in FY15.

[P40A / CC002 - SARTIS]: Procures Shipboard Advanced Radar Target Identification System (SARTIS) including equipment procurement, recurring equipment engineering, equipment integration, and ILS.

[P40A / CC005 - SGS/CDLMS]: Procures Ship Gridlock System (SGS) and the Common Data Link Management System (CDLMS) for Baseline 2 ships including equipment procurement, recurring equipment engineering, equipment integration, and ILS.

[P40A / CC012 - VIRGINIA SITES]: Procures Commercial Off The Shelf (COTS) equipment to support C/S capabilities including equipment procurement, 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.

[P40A / CC013 - INSTALLATION / DSA / AIT ]: Provides Planning Yard Design Services Allocation (DSA) (design, advance planning, and kitted material), MSR installations and AIT installation support.

[P40A / CC014 - CONJUNCTIVE COMBAT SYSTEM ALTERATIONS]: Conjunctive Combat System Alterations includes design integration, equipment procurement, recurring equipment engineering, equipment integration, and ILS.

[P40A / CC017 - MULTI-MISSION BMD CAPABILITIES]: Procures Multi-Mission Ballistic Missile Defense (BMD) Capability including equipment procurement, recurring equipment engineering, equipment integration, and ILS.

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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2014 Navy	<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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**MDAP/MAIS Code(s):**

- [P40A / CC018 - MULTI-MISSION SSA/CWI MICROWAVE TUBES]: Procures Multi-Mission Solid State Amplifier (SSA)/Continuous Wave Illuminator (CWI) Microwave Tubes including equipment procurement, recurring equipment engineering, equipment integration, and ILS.
- [P3A / CC001 - SPQ-9B UPGRADE]: Procures SPQ-9B for all CG Modernization ships including equipment procurement, recurring equipment engineering, equipment integration, and Integrated Logistics
- [P3A / CC003 - COOPERATIVE ENGAGEMENT CAPABILITIES (CEC)]: Procures Cooperative Engagement Capability (CEC) for all ships including equipment procurement, recurring equipment engineering, equipment integration, and ILS.
- [P3A / CC004 - AN/SQQ-89 A(V) 15 PROCUREMENT]: Procures AN/SQQ-89 A(V) 15 for Baseline 3 and 4 ships including equipment procurement, recurring equipment engineering, equipment integration, and ILS.
- [P3A / CC007 - AEGIS WEAPONS SYSTEM (AWS) UPGRADE PROCUREMENT]: Procures AEGIS Weapons System (AWS) upgrade for all ships including equipment procurement, recurring equipment engineering, equipment integration, and ILS.
- [P3A / CC008 - VERTICAL LAUNCH SYSTEM (VLS)]: Procures Vertical Launch System (VLS) upgrade for all ships including equipment procurement, recurring equipment engineering, equipment integration, and ILS.
- [P3A / CC010 - MK34 UPGRADE ]: Procures MK34 Gun Weapon System (GWS) upgrade for all ships including equipment procurement, recurring equipment engineering, equipment integration, and ILS.
- [P3A / CC011 - INTEGRATED SHIP CONTROLS (ISC)]: Procures Smartship Integrated Ship Controls (ISC) for all ships requiring upgrade including equipment procurement, recurring equipment engineering, equipment integration, and ILS.
- [P3A / CC015 - MULTI-MISSION SIGPRO]: Procures Multi-Mission Signal Processor (MMSP) including equipment procurement, recurring equipment engineering, equipment integration, and ILS.
- [P3A / CC016 - SPY-1B VARIANCE TRANSMITTER UPGRADES]: Procures SPY-1B Variance Transmitter Upgrades including equipment procurement, recurring equipment engineering, equipment integration, and ILS.

Item Schedule		Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
CG Modernization	P40A				392.905			147.708			65.907			9.681			-			9.681
1 - CC001 - SPQ-9B UPGRADE	P3A				97.149			25.590			1.840			0.541			-			0.541
2 - CC003 - COOPERATIVE ENGAGEMENT CAPABILITIES (CEC)	P3A				76.583			20.919			1.877			-			-			-

**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0960 - CG Modernization

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
3 - CC004 - AN/SQQ-89 A(V) 15 PROCUREMENT	P3A				107.887			52.698			4.609			-			-			-
4 - CC007 - AEGIS WEAPONS SYSTEM (AWS) UPGRADE PROCUREMENT	P3A				446.054			129.653			22.671			-			-			-
5 - CC008 - VERTICAL LAUNCH SYSTEM (VLS)	P3A				147.527			42.274			0.958			0.317			-			0.317
6 - CC010 - MK34 UPGRADE	P3A				115.320			26.491			3.138			-			-			-
7 - CC011 - INTEGRATED SHIP CONTROLS (ISC)	P3A				62.183			15.390			-			-			-			-
8 - CC015 - MULTI-MISSION SIGPRO	P3A				0.000			66.000			-			-			-			-
9 - CC016 - SPY-1B VARIANCE TRANSMITTER UPGRADES	P3A				0.000			30.780			-			-			-			-
<b>Total Gross/Weapon System Cost</b>					<b>1,445.608</b>			<b>557.503</b>			<b>101.000</b>			<b>10.539</b>			<b>-</b>			<b>10.539</b>

Item Schedule		ID CD	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
CG Modernization	P40A			-			-			-			-			-				-
1 - CC001 - SPQ-9B UPGRADE	P3A			1.944			-			-			-			-				127.064
2 - CC003 - COOPERATIVE ENGAGEMENT CAPABILITIES (CEC)	P3A			1.991			-			-			-			-				101.370
3 - CC004 - AN/SQQ-89 A(V) 15 PROCUREMENT	P3A			4.882			-			-			-			-				170.076
4 - CC007 - AEGIS WEAPONS SYSTEM (AWS) UPGRADE PROCUREMENT	P3A			23.811			-			-			-			-				622.189
5 - CC008 - VERTICAL LAUNCH SYSTEM (VLS)	P3A			1.014			-			-			-			-				192.090
6 - CC010 - MK34 UPGRADE	P3A			3.325			-			-			-			-				148.274
7 - CC011 - INTEGRATED SHIP CONTROLS (ISC)	P3A			-			-			-			-			-				77.573
8 - CC015 - MULTI-MISSION SIGPRO	P3A			-			-			-			-			-				66.000



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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0960 - CG Modernization

**Aggregated Item Name:**  
CG Modernization

Items	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) CC002 - SARTIS</b>																				
1.1) SARTIS EQUIPMENT	A		412,000.00	4	1.648	110,000.00	3	0.330	-	-	-	-	-	-	-	-	-	-	-	-
1.2) SARTIS ENGINEERING SERVICES	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 1) CC002 - SARTIS</i>					1.648		0.330													
<b>2) CC005 - SGS/CDLMS</b>																				
2.1) SGS/CDLMS EQUIPMENT	A		820,142.86	7	5.741	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.2) SGS/CDLMS ENGINEERING SERVICES	A		-	-	0.700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) CC005 - SGS/CDLMS</i>					6.441		-													
<b>3) CC012 - VIRGINIA SITES</b>																				
3.1) VIRGINIA SITES	A		-	-	66.709	-	-	15.319	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 3) CC012 - VIRGINIA SITES</i>					66.709		15.319													
<b>4) CC013 - INSTALLATION / DSA / AIT</b>																				
4.1) INSTALLATION / DSA / AIT	A		-	-	153.037	-	-	85.211	-	-	65.907	-	-	9.681	-	-	-	-	-	9.681
<i>Subtotal 4) CC013 - INSTALLATION / DSA / AIT</i>					153.037		85.211			65.907			9.681							
<b>5) CC014 - CONJUNCTIVE COMBAT SYSTEM ALTERATIONS</b>																				
5.1) CONJUNCTIVE COMBAT SYSTEM ALTERATION EQUIPMENT	A		-	-	165.070	-	-	38.768	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 5) CC014 - CONJUNCTIVE COMBAT SYSTEM ALTERATIONS</i>					165.070		38.768			-										
<b>6) CC017 - MULTI-MISSION BMD CAPABILITIES</b>																				
6.1) MULTI-MISSION BMD CAPABILITIES EQUIPMENT	A		-	-	-	1,553K	3	4.660	-	-	-	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-40A, Budget Item Justification For Aggregated Items:</b> PB 2014 Navy															<b>Date:</b> April 2013				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment							<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization								<b>Aggregated Item Name:</b> CG Modernization				

Items	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal 6) CC017 - MULTI-MISSION BMD CAPABILITIES</i>					-			4.660			-			-			-			-
<b>7) CC018 - MULTI-MISSION SSA/CWI MICROWAVE TUBES</b>																				
7.1) MULTI-MISSION SSA/CWI MICROWAVE TUBE EQUIPMENT	A		-	-	-	1,140K	3	3.420	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 7) CC018 - MULTI-MISSION SSA/CWI MICROWAVE TUBES</i>					-			3.420			-			-			-			-
<b>Total</b>					<b>392.905</b>			<b>147.708</b>			<b>65.907</b>			<b>9.681</b>			<b>-</b>			<b>9.681</b>

**UNCLASSIFIED**

<b>Exhibit P-40A, Budget Item Justification For Aggregated Items:</b> PB 2014 Navy															<b>Date:</b> April 2013				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment										<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization					<b>Aggregated Item Name:</b> CG Modernization				

Items	ID CD	MDAP/MAIS Code	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) CC002 - SARTIS</b>																				
1.1) SARTIS EQUIPMENT	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2) SARTIS ENGINEERING SERVICES	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 1) CC002 - SARTIS</i>					-			-			-			-			-			-
<b>2) CC005 - SGS/CDLMS</b>																				
2.1) SGS/CDLMS EQUIPMENT	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.2) SGS/CDLMS ENGINEERING SERVICES	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) CC005 - SGS/CDLMS</i>					-			-			-			-			-			-
<b>3) CC012 - VIRGINIA SITES</b>																				
3.1) VIRGINIA SITES	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 3) CC012 - VIRGINIA SITES</i>					-			-			-			-			-			-
<b>4) CC013 - INSTALLATION / DSA / AIT</b>																				
4.1) INSTALLATION / DSA / AIT	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 4) CC013 - INSTALLATION / DSA / AIT</i>					-			-			-			-			-			-
<b>5) CC014 - CONJUNCTIVE COMBAT SYSTEM ALTERATIONS</b>																				
5.1) CONJUNCTIVE COMBAT SYSTEM ALTERATION EQUIPMENT	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 5) CC014 - CONJUNCTIVE COMBAT SYSTEM ALTERATIONS</i>					-			-			-			-			-			-
<b>6) CC017 - MULTI-MISSION BMD CAPABILITIES</b>																				
6.1) MULTI-MISSION BMD CAPABILITIES EQUIPMENT	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-40A, Budget Item Justification For Aggregated Items:</b> PB 2014 Navy															<b>Date:</b> April 2013				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment										<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization					<b>Aggregated Item Name:</b> CG Modernization				

Items	ID CD	MDAP/MAIS Code	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal 6) CC017 - MULTI-MISSION BMD CAPABILITIES					-			-			-			-			-			-
<b>7) CC018 - MULTI-MISSION SSA/CWI MICROWAVE TUBES</b>																				
7.1) MULTI-MISSION SSA/CWI MICROWAVE TUBE EQUIPMENT	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal 7) CC018 - MULTI-MISSION SSA/CWI MICROWAVE TUBES					-			-			-			-			-			-
<b>Total</b>					-			-			-			-			-			-

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment		<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization
		<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - CC001 - SPQ-9B UPGRADE

<b>Models of Systems Affected:</b> [No Model Specified]			<b>Type Modification:</b> [No Modification Type Specified]				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	97.149	25.590	1.840	0.541	-	0.541	1.944	-	-	-	-	127.064
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	97.149	25.590	1.840	0.541	-	0.541	1.944	-	-	-	-	127.064
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>97.149</b>	<b>25.590</b>	<b>1.840</b>	<b>0.541</b>	<b>-</b>	<b>0.541</b>	<b>1.944</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>127.064</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Replaces the existing AN/SPQ-9A heavyweight (HW) Radar Set with the AN/SPQ-9B lightweight (LW) Radar Set. Supports associated DSA and Planning for FY15 installation.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - CC001 - SPQ-9B UPGRADE

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
CC001 - SPQ-9B UPGRADE												
B Kits												
Recurring												
1.1.1) CC001 - SPQ-9B EQUIPMENT - NonOrganic	12 / 76.380	3 / 19.039	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 95.419
1.1.2) CC001 - SPQ-9B ENGINEERING SERVICES - NonOrganic	- / 6.369	- / 0.974	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.343
<i>Subtotal Recurring</i>	<i>12 / 82.749</i>	<i>3 / 20.013</i>	<i>- / -</i>	<i>15 / 102.762</i>								
<i>Total, CC001 - SPQ-9B UPGRADE</i>	<i>12 / 82.749</i>	<i>3 / 20.013</i>	<i>- / -</i>	<i>15 / 102.762</i>								
<i>Total Procurement, All Modifications</i>	<i>12 / 82.749</i>	<i>3 / 20.013</i>	<i>- / -</i>	<i>15 / 102.762</i>								
<i>Total Procurement and Support</i>	<i>82.749</i>	<i>20.013</i>	<i>-</i>	<i>102.762</i>								
CC001 - SPQ-9B UPGRADE Installation Cost	- / 14.400	- / 5.577	- / 1.840	- / 0.541	- / -	- / 0.541	- / 1.944	- / -	- / -	- / -	- / -	- / 24.302
<i>Total Installation Cost</i>	<i>- / 14.400</i>	<i>- / 5.577</i>	<i>- / 1.840</i>	<i>- / 0.541</i>	<i>- / -</i>	<i>- / 0.541</i>	<i>- / 1.944</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 24.302</i>
<b>Total Cost (Procurement + Support + Installation)</b>	<b>97.149</b>	<b>25.590</b>	<b>1.840</b>	<b>0.541</b>	<b>-</b>	<b>0.541</b>	<b>1.944</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>127.064</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - CC001 - SPQ-9B UPGRADE

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: CC001 - SPQ-9B UPGRADE**

Manufacturer Name: NORTHROP GRUMMAN	Manufacturer Location: MELVILLE, NY
Administrative Leadtime ( <i>in Months</i> ): 6	Production Leadtime ( <i>in Months</i> ): 18

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Apr 2011	Jun 2012					
Delivery Dates	Dec 2012	Dec 2013					

**Installation: CC001 - SPQ-9B UPGRADE**      **Method of Implementation:** [none specified]      **Installation Name:** CC001 - SPQ-9B EQUIPMENT

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	6 / 14.400	3 / 5.577	1 / 1.840	0 / 0.541	0 / 0.000	0 / 0.541	1 / 1.944	- / -	- / -	- / -	- / -	11 / 24.302
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	6 / 14.400	3 / 5.577	1 / 1.840	- / 0.541	- / -	- / 0.541	1 / 1.944	- / -	- / -	- / -	- / -	11 / 24.302

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	6	1	-	1	1	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	5	-	-	1	-	1	1	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - CC003 - COOPERATIVE ENGAGEMENT CAPABILITIES (CEC)

**Models of Systems Affected:** [No Model Specified]      **Type Modification:** [No Modification Type Specified]      **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	76.583	20.919	1.877	-	-	-	1.991	-	-	-	-	101.370
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	76.583	20.919	1.877	-	-	-	1.991	-	-	-	-	101.370
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>76.583</b>	<b>20.919</b>	<b>1.877</b>	-	-	-	<b>1.991</b>	-	-	-	-	<b>101.370</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Procure and install Cooperative Engagement Capability (CEC). Supports DSA and Planning for FY15 installation.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - CC003 - COOPERATIVE ENGAGEMENT CAPABILITIES (CEC)

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
CC003 - COOPERATIVE ENGAGEMENT CAPABILITIES (CEC)												
B Kits												
Recurring												
1.1.1) CC003 - CEC EQUIPMENT - NonOrganic	12 / 55.835	3 / 14.553	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 70.388
1.1.2) CC003 - CEC ENGINEERING SERVICES - NonOrganic	- / 6.048	- / 0.731	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.779
<b>Subtotal Recurring</b>	<b>12 / 61.883</b>	<b>3 / 15.284</b>	<b>- / -</b>	<b>15 / 77.167</b>								
<i>Total, CC003 - COOPERATIVE ENGAGEMENT CAPABILITIES (CEC)</i>	<i>12 / 61.883</i>	<i>3 / 15.284</i>	<i>- / -</i>	<i>15 / 77.167</i>								
<b>Total Procurement, All Modifications</b>	<b>12 / 61.883</b>	<b>3 / 15.284</b>	<b>- / -</b>	<b>15 / 77.167</b>								
<b>Total Procurement and Support</b>	<b>61.883</b>	<b>15.284</b>	<b>-</b>	<b>77.167</b>								
CC003 - COOPERATIVE ENGAGEMENT CAPABILITIES (CEC) Installation Cost	- / 14.700	- / 5.635	- / 1.877	- / -	- / -	- / -	- / 1.991	- / -	- / -	- / -	- / -	- / 24.203
<b>Total Installation Cost</b>	<b>- / 14.700</b>	<b>- / 5.635</b>	<b>- / 1.877</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / 1.991</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / 24.203</b>
<b>Total Cost (Procurement + Support + Installation)</b>	<b>76.583</b>	<b>20.919</b>	<b>1.877</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.991</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>101.370</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - CC003 - COOPERATIVE ENGAGEMENT CAPABILITIES (CEC)

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information:** CC003 - COOPERATIVE ENGAGEMENT CAPABILITIES (CEC)

Manufacturer Name: RAYTHEON	Manufacturer Location: ST. PETERSBURG, FL
Administrative Leadtime ( <i>in Months</i> ): 6	Production Leadtime ( <i>in Months</i> ): 18

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Dec 2010	Jun 2012					
Delivery Dates	Dec 2012	Dec 2013					

**Installation:** CC003 - COOPERATIVE ENGAGEMENT CAPABILITIES (CEC)      **Method of Implementation:** [none specified]      **Installation Name:** CC003 - CEC EQUIPMENT

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	6 / 14.700	3 / 5.635	1 / 1.877	- / -	- / -	- / -	1 / 1.991	- / -	- / -	- / -	- / -	11 / 24.203
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	6 / 14.700	3 / 5.635	1 / 1.877	- / -	- / -	- / -	1 / 1.991	- / -	- / -	- / -	- / -	11 / 24.203

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot	
		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	6	1	-	1	1	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	5	-	-	1	-	1	1	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - CC004 - AN/SQQ-89 A(V) 15 PROCUREMENT

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	107.887	52.698	4.609	-	-	-	4.882	-	-	-	-	170.076
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	107.887	52.698	4.609	-	-	-	4.882	-	-	-	-	170.076
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>107.887</b>	<b>52.698</b>	<b>4.609</b>	-	-	-	<b>4.882</b>	-	-	-	-	<b>170.076</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Procure and Install AN/SQQ-89 A(V) 15 for CG Modernization. Supports DSA and Planning for FY15 installation.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - CC004 - AN/SQQ-89 A(V) 15 PROCUREMENT

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
CC004 - AN/SQQ-89 A(V) 15 PROCUREMENT												
B Kits												
Recurring												
1.1.1) CC004 - AN/SQQ-89 A(V) 15 EQUIPMENT - NonOrganic	5 / 69.712	3 / 42.129	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 111.841
1.1.2) CC004 - AN/SQQ-89 A(V) 15 ENGINEERING SERVICES - NonOrganic	- / 35.575	- / 1.225	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 36.800
<b>Subtotal Recurring</b>	<b>5 / 105.287</b>	<b>3 / 43.354</b>	<b>- / -</b>	<b>8 / 148.641</b>								
<b>Total, CC004 - AN/SQQ-89 A(V) 15 PROCUREMENT</b>	<b>5 / 105.287</b>	<b>3 / 43.354</b>	<b>- / -</b>	<b>8 / 148.641</b>								
<b>Total Procurement, All Modifications</b>	<b>5 / 105.287</b>	<b>3 / 43.354</b>	<b>- / -</b>	<b>8 / 148.641</b>								
<b>Total Procurement and Support</b>	<b>105.287</b>	<b>43.354</b>	<b>-</b>	<b>148.641</b>								
CC004 - AN/SQQ-89 A(V) 15 PROCUREMENT Installation Cost	- / 2.600	- / 9.344	- / 4.609	- / -	- / -	- / -	- / 4.882	- / -	- / -	- / -	- / -	- / 21.435
<b>Total Installation Cost</b>	<b>- / 2.600</b>	<b>- / 9.344</b>	<b>- / 4.609</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / 4.882</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / 21.435</b>
<b>Total Cost (Procurement + Support + Installation)</b>	<b>107.887</b>	<b>52.698</b>	<b>4.609</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4.882</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>170.076</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - CC004 - AN/SQQ-89 A(V) 15 PROCUREMENT

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: CC004 - AN/SQQ-89 A(V) 15 PROCUREMENT**

Manufacturer Name: LOCKHEED MARTIN	Manufacturer Location: SYRACUSE, NY
Administrative Leadtime ( <i>in Months</i> ): 6	Production Leadtime ( <i>in Months</i> ): 18

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Jan 2011	Jun 2012					
Delivery Dates	Dec 2012	Dec 2013					

**Installation: CC004 - AN/SQQ-89 A(V) 15 PROCUREMENT**      **Method of Implementation:** [none specified]      **Installation Name:** CC004 - AN/SQQ-89 A(V) 15 EQUIPMENT

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	0 / 2.600	2 / 9.344	1 / 4.609	- / -	- / -	- / -	1 / 4.882	- / -	- / -	- / -	- / -	4 / 21.435
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 2.600	2 / 9.344	1 / 4.609	- / -	- / -	- / -	1 / 4.882	- / -	- / -	- / -	- / -	4 / 21.435

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	1	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
Out	-	-	-	-	-	-	1	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	4

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - CC007 - AEGIS WEAPONS SYSTEM (AWS) UPGRADE PROCUREMENT

**Models of Systems Affected:** [No Model Specified]      **Type Modification:** [No Modification Type Specified]      **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	446.054	129.653	22.671	-	-	-	23.811	-	-	-	-	622.189
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	446.054	129.653	22.671	-	-	-	23.811	-	-	-	-	622.189
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>446.054</b>	<b>129.653</b>	<b>22.671</b>	-	-	-	<b>23.811</b>	-	-	-	-	<b>622.189</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Provides improved computing and display capabilities, faster processing, and greater track capacity. Supports DSA and Planning for FY15 installation.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - CC007 - AEGIS WEAPONS SYSTEM (AWS) UPGRADE PROCUREMENT

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
CC007 - AEGIS WEAPONS SYSTEM (AWS) UPGRADE PROCUREMENT												
B Kits												
Recurring												
1.1.1) CC007 - AWS EQUIPMENT - NonOrganic	12 / 301.397	3 / 68.151	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 369.548
1.1.2) CC007 - AWS ENGINEERING SERVICES - NonOrganic	- / 29.157	- / 1.132	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 30.289
<i>Subtotal Recurring</i>	12 / 330.554	3 / 69.283	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 399.837
<i>Total, CC007 - AEGIS WEAPONS SYSTEM (AWS) UPGRADE PROCUREMENT</i>	12 / 330.554	3 / 69.283	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 399.837
<b>Total Procurement, All Modifications</b>	12 / 330.554	3 / 69.283	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 399.837
<b>Total Procurement and Support</b>	330.554	69.283	-	-	-	-	-	-	-	-	-	399.837
CC007 - AEGIS WEAPONS SYSTEM (AWS) UPGRADE PROCUREMENT Installation Cost	- / 115.500	- / 60.370	- / 22.671	- / -	- / -	- / -	- / 23.811	- / -	- / -	- / -	- / -	- / 222.352
<b>Total Installation Cost</b>	- / 115.500	- / 60.370	- / 22.671	- / -	- / -	- / -	- / 23.811	- / -	- / -	- / -	- / -	- / 222.352
<b>Total Cost (Procurement + Support + Installation)</b>	<b>446.054</b>	<b>129.653</b>	<b>22.671</b>	-	-	-	<b>23.811</b>	-	-	-	-	<b>622.189</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - CC007 - AEGIS WEAPONS SYSTEM (AWS) UPGRADE PROCUREMENT

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: CC007 - AEGIS WEAPONS SYSTEM (AWS) UPGRADE PROCUREMENT**

Manufacturer Name: LOCKHEED MARTIN	Manufacturer Location: MOORESTOWN, NJ
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Administrative Leadtime ( <i>in Months</i> ): 6	Production Leadtime ( <i>in Months</i> ): 20
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Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Sep 2011	Apr 2012					
Delivery Dates	Dec 2012	Dec 2013					

<b>Installation:</b> CC007 - AEGIS WEAPONS SYSTEM (AWS) UPGRADE PROCUREMENT	<b>Method of Implementation:</b> [none specified]	<b>Installation Name:</b> CC007 - AWS EQUIPMENT
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	6 / 115.500	3 / 60.370	1 / 22.671	- / -	- / -	- / -	1 / 23.811	- / -	- / -	- / -	- / -	11 / 222.352
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	6 / 115.500	3 / 60.370	1 / 22.671	- / -	- / -	- / -	1 / 23.811	- / -	- / -	- / -	- / -	11 / 222.352

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	6	-	1	1	1	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	5	-	-	1	-	1	1	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 5 - CC008 - VERTICAL LAUNCH SYSTEM (VLS)

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	147.527	42.274	0.958	0.317	-	0.317	1.014	-	-	-	-	192.090
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	147.527	42.274	0.958	0.317	-	0.317	1.014	-	-	-	-	192.090
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>147.527</b>	<b>42.274</b>	<b>0.958</b>	<b>0.317</b>	<b>-</b>	<b>0.317</b>	<b>1.014</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>192.090</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Supports DSA and Planning for FY15 installation.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 5 - CC008 - VERTICAL LAUNCH SYSTEM (VLS)

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
CC008 - VERTICAL LAUNCH SYSTEM (VLS)												
B Kits												
Recurring												
1.1.1) CC008 - VLS ENGINEERING SERVICES - NonOrganic	- / 3.773	- / 0.396	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.169
1.1.2) CC008 - VLS EQUIPMENT - NonOrganic	12 / 132.454	3 / 38.972	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 171.426
<i>Subtotal Recurring</i>	12 / 136.227	3 / 39.368	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 175.595
<i>Total, CC008 - VERTICAL LAUNCH SYSTEM (VLS)</i>	12 / 136.227	3 / 39.368	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 175.595
<i>Total Procurement, All Modifications</i>	12 / 136.227	3 / 39.368	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 175.595
<i>Total Procurement and Support</i>	136.227	39.368	-	-	-	-	-	-	-	-	-	175.595
CC008 - VERTICAL LAUNCH SYSTEM (VLS) Installation Cost	- / 11.300	- / 2.906	- / 0.958	- / 0.317	- / -	- / 0.317	- / 1.014	- / -	- / -	- / -	- / -	- / 16.495
<i>Total Installation Cost</i>	- / 11.300	- / 2.906	- / 0.958	- / 0.317	- / -	- / 0.317	- / 1.014	- / -	- / -	- / -	- / -	- / 16.495
<b>Total Cost (Procurement + Support + Installation)</b>	<b>147.527</b>	<b>42.274</b>	<b>0.958</b>	<b>0.317</b>	<b>-</b>	<b>0.317</b>	<b>1.014</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>192.090</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 5 - CC008 - VERTICAL LAUNCH SYSTEM (VLS)

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: CC008 - VERTICAL LAUNCH SYSTEM (VLS)**

Manufacturer Name: LOCHEED MARTIN	Manufacturer Location: BALTIMORE, MD
Administrative Leadtime ( <i>in Months</i> ): 6	Production Leadtime ( <i>in Months</i> ): 18

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Jun 2011	Jun 2012					
Delivery Dates	Dec 2012	Dec 2013					

**Installation: CC008 - VERTICAL LAUNCH SYSTEM (VLS)**      **Method of Implementation:** [none specified]      **Installation Name:** CC008 - VLS EQUIPMENT

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	6 / 11.300	3 / 2.906	1 / 0.958	0 / 0.317	0 / 0.000	0 / 0.317	1 / 1.014	- / -	- / -	- / -	- / -	11 / 16.495
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	6 / 11.300	3 / 2.906	1 / 0.958	- / 0.317	- / -	- / 0.317	1 / 1.014	- / -	- / -	- / -	- / -	11 / 16.495

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot	
		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	6	1	-	1	1	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	5	-	-	1	-	1	1	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 6 - CC010 - MK34 UPGRADE

<b>Models of Systems Affected:</b> [No Model Specified]			<b>Type Modification:</b> [No Modification Type Specified]				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	115.320	26.491	3.138	-	-	-	3.325	-	-	-	-	148.274
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	115.320	26.491	3.138	-	-	-	3.325	-	-	-	-	148.274
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>115.320</b>	<b>26.491</b>	<b>3.138</b>	-	-	-	<b>3.325</b>	-	-	-	-	<b>148.274</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Procures the MK34 Mod 4 Gun Weapon System (GWS) to replace the existing MK86 Gun Fire Control System. Supports DSA and Planning for FY15 installation.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 6 - CC010 - MK34 UPGRADE

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
CC010 - MK34 UPGRADE												
B Kits												
Recurring												
1.1.1) CC010 - MK34 EQUIPMENT - NonOrganic	12 / 72.172	3 / 16.119	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 88.291
1.1.2) CC010 - MK34 ENGINEERING SERVICES - NonOrganic	- / 18.948	- / 0.933	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.881
<i>Subtotal Recurring</i>	12 / 91.120	3 / 17.052	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 108.172
<i>Total, CC010 - MK34 UPGRADE</i>	12 / 91.120	3 / 17.052	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 108.172
<i>Total Procurement, All Modifications</i>	12 / 91.120	3 / 17.052	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 108.172
<i>Total Procurement and Support</i>	91.120	17.052	-	-	-	-	-	-	-	-	-	108.172
CC010 - MK34 UPGRADE Installation Cost	- / 24.200	- / 9.439	- / 3.138	- / -	- / -	- / -	- / 3.325	- / -	- / -	- / -	- / -	- / 40.102
<i>Total Installation Cost</i>	- / 24.200	- / 9.439	- / 3.138	- / -	- / -	- / -	- / 3.325	- / -	- / -	- / -	- / -	- / 40.102
<b>Total Cost (Procurement + Support + Installation)</b>	<b>115.320</b>	<b>26.491</b>	<b>3.138</b>	-	-	-	<b>3.325</b>	-	-	-	-	<b>148.274</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 6 - CC010 - MK34 UPGRADE

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information:</b> CC010 - MK34 UPGRADE
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Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime ( <i>in Months</i> ): 6	Production Leadtime ( <i>in Months</i> ): 18

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Jul 2011	Jun 2012					
Delivery Dates	Dec 2012	Dec 2013					

<b>Installation:</b> CC010 - MK34 UPGRADE	<b>Method of Implementation:</b> [none specified]	<b>Installation Name:</b> CC010 - MK34 EQUIPMENT
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	6 / 24.200	3 / 9.439	1 / 3.138	- / -	- / -	- / -	1 / 3.325	- / -	- / -	- / -	- / -	11 / 40.102
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	6 / 24.200	3 / 9.439	1 / 3.138	- / -	- / -	- / -	1 / 3.325	- / -	- / -	- / -	- / -	11 / 40.102

Installation Schedule																															
	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	6	1	-	1	1	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-			
Out	5	-	-	1	-	1	1	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-			

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 7 - CC011 - INTEGRATED SHIP CONTROLS (ISC)

**Models of Systems Affected:** [No Model Specified]      **Type Modification:** [No Modification Type Specified]      **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	62.183	15.390	-	-	-	-	-	-	-	-	-	77.573
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	62.183	15.390	-	-	-	-	-	-	-	-	-	77.573
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>62.183</b>	<b>15.390</b>	-	-	-	-	-	-	-	-	-	<b>77.573</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Procure and Install Smartship Integrated Ship Control (ISC) for CG Modernization.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 7 - CC011 - INTEGRATED SHIP CONTROLS (ISC)

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
CC011 - INTEGRATED SHIP CONTROLS (ISC)												
B Kits												
Recurring												
1.1.1) CC011 - ISC EQUIPMENT - NonOrganic	5 / 32.078	1 / 6.407	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 38.485
1.1.2) CC011 - ISC ENGINEERING SERVICES - NonOrganic	- / 1.605	- / 1.166	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.771
<i>Subtotal Recurring</i>	5 / 33.683	1 / 7.573	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 41.256
<i>Total, CC011 - INTEGRATED SHIP CONTROLS (ISC)</i>	5 / 33.683	1 / 7.573	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 41.256
<i>Total Procurement, All Modifications</i>	5 / 33.683	1 / 7.573	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 41.256
<i>Total Procurement and Support</i>	33.683	7.573	-	-	-	-	-	-	-	-	-	41.256
CC011 - INTEGRATED SHIP CONTROLS (ISC) Installation Cost	- / 28.500	- / 7.817	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 36.317
<i>Total Installation Cost</i>	- / 28.500	- / 7.817	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 36.317
<b>Total Cost (Procurement + Support + Installation)</b>	<b>62.183</b>	<b>15.390</b>	-	-	-	-	-	-	-	-	-	<b>77.573</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment		<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization
		<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 7 - CC011 - INTEGRATED SHIP CONTROLS (ISC)

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: CC011 - INTEGRATED SHIP CONTROLS (ISC)**

Manufacturer Name: HENSCHTEL	Manufacturer Location: NEWBURY PORT, MA
Administrative Leadtime ( <i>in Months</i> ): 6	Production Leadtime ( <i>in Months</i> ): 6

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Jul 2011	Jun 2012					
Delivery Dates	Dec 2011	Dec 2012					

**Installation: CC011 - INTEGRATED SHIP CONTROLS (ISC)**      **Method of Implementation:** [none specified]      **Installation Name:** CC011 - ISC EQUIPMENT

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	4 / 27.900	1 / 7.817	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 35.717
FY 2012	0 / 0.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.600
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	<b>4 / 28.500</b>	<b>1 / 7.817</b>	<b>- / -</b>	<b>5 / 36.317</b>								

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Out	4	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 8 - CC015 - MULTI-MISSION SIGPRO

<b>Models of Systems Affected:</b> [No Model Specified]			<b>Type Modification:</b> [No Modification Type Specified]				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	66.000	-	-	-	-	-	-	-	-	-	66.000
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	66.000	-	-	-	-	-	-	-	-	-	66.000
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>66.000</b>	-	-	-	-	-	-	-	-	-	<b>66.000</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Replaces existing AN/SPY-1B/B(V) MIL-STANDARD Signal Processor with the COTS Multi-Mission SIGPRO set.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 8 - CC015 - MULTI-MISSION SIGPRO

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
CC015 - MULTI-MISSION SIGPRO												
B Kits												
Recurring												
1.1.1) CC015 - MULTI-MISSION SIGPRO EQUIPMENT - Organic	- / -	3 / 66.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 66.000
<i>Subtotal Recurring</i>	- / -	3 / 66.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 66.000
<i>Total, CC015 - MULTI-MISSION SIGPRO</i>	- / -	3 / 66.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 66.000
<i>Total Procurement, All Modifications</i>	- / -	3 / 66.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 66.000
<i>Total Procurement and Support</i>	-	66.000	-	-	-	-	-	-	-	-	-	66.000
<i>Total Installation Cost</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total Cost (Procurement + Support + Installation)</b>	-	<b>66.000</b>	-	-	-	-	-	-	-	-	-	<b>66.000</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy						<b>Date:</b> April 2013	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment			<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization			<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 8 - CC015 - MULTI-MISSION SIGPRO	
<b>Models of Systems Affected:</b> [No Model Specified]		<b>Type Modification:</b> [No Modification Type Specified]			<b>Related RDT&amp;E PEs:</b>		
<b>Manufacturer Information: CC015 - MULTI-MISSION SIGPRO</b>							
Manufacturer Name: Manufacturer Name Not Provided.				Manufacturer Location: Manufacturer Location Not Provided.			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates							
Delivery Dates							
<b>Installation:</b> CC015 - MULTI-MISSION SIGPRO		<b>Method of Implementation:</b> Not Installed - CC015 - MULTI-MISSION SIGPRO EQUIPMENT			<b>Installation Quantity:</b> 3		

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 9 - CC016 - SPY-1B VARIANCE TRANSMITTER UPGRADES

**Models of Systems Affected:** [No Model Specified]      **Type Modification:** [No Modification Type Specified]      **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	30.780	-	-	-	-	-	-	-	-	-	30.780
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	30.780	-	-	-	-	-	-	-	-	-	30.780
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>30.780</b>	-	-	-	-	-	-	-	-	-	<b>30.780</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Provides upgrades to the existing Radio Frequency Monitor (RFM), existing Driver/Pre-Driver (DPD) and modifies existing Deckhouse Wave Guide.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 9 - CC016 - SPY-1B VARIANCE TRANSMITTER UPGRADES

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
CC016 - SPY-1B VARIANCE TRANSMITTER UPGRADES												
B Kits												
Recurring												
1.1.1) CC016 - SPY-1B VARIANCE TRANSMITTER EQUIPMENT - Organic	- / -	3 / 30.780	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 30.780
<i>Subtotal Recurring</i>	- / -	3 / 30.780	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 30.780
<i>Total, CC016 - SPY-1B VARIANCE TRANSMITTER UPGRADES</i>	- / -	3 / 30.780	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 30.780
<b>Total Procurement, All Modifications</b>	- / -	3 / 30.780	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 30.780
<b>Total Procurement and Support</b>	-	30.780	-	-	-	-	-	-	-	-	-	30.780
<b>Total Installation Cost</b>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total Cost (Procurement + Support + Installation)</b>	-	30.780	-	-	-	-	-	-	-	-	-	30.780

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy						<b>Date:</b> April 2013	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment			<b>P-1 Line Item Nomenclature:</b> 0960 - CG Modernization			<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 9 - CC016 - SPY-1B VARIANCE TRANSMITTER UPGRADES	
<b>Models of Systems Affected:</b> [No Model Specified]		<b>Type Modification:</b> [No Modification Type Specified]			<b>Related RDT&amp;E PEs:</b>		
<b>Manufacturer Information:</b> CC016 - SPY-1B VARIANCE TRANSMITTER UPGRADES							
Manufacturer Name: Raytheon				Manufacturer Location: Marlborough, MA			
Administrative Leadtime ( <i>in Months</i> ): 6				Production Leadtime ( <i>in Months</i> ): 18			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates		Jun 2012					
Delivery Dates		Dec 2013					
<b>Installation:</b> CC016 - SPY-1B VARIANCE TRANSMITTER UPGRADES		<b>Method of Implementation:</b> Not Installed - CC016 - SPY-1B VARIANCE TRANSMITTER EQUIPMENT				<b>Installation Quantity:</b> 3	

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0970 - LCAC

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	58.783	-	16.645	14.431	-	14.431	8.273	6.692	6.806	6.929	5.356	123.915
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	58.783	-	16.645	14.431	-	14.431	8.273	6.692	6.806	6.929	5.356	123.915
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>58.783</b>	<b>-</b>	<b>16.645</b>	<b>14.431</b>	<b>-</b>	<b>14.431</b>	<b>8.273</b>	<b>6.692</b>	<b>6.806</b>	<b>6.929</b>	<b>5.356</b>	<b>123.915</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

**LC001 - LCAC SYSTEM UPGRADES**

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.

**LC002 - ENGINES**

The ETF-40B engines are enhanced versions of the current TF-40B engines and are being provided with the rest of the SLEP craft. Recent catastrophic engine failures have highlighted the need for spare engines to reduce operational downtime. 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 BA newly introduced as part of SLEP.

**LC005 - COMPOSITE SHROUDS**

The composite propeller shroud is a complex riveted aluminum construction with high maintenance and repair costs. The lone supplier has gone out of production and is no longer interested in providing any of the 508 specifically fabricated parts. A limited number of spares are available, and once depleted the situation will become critical. Major repairs are required on 1 - 2 shrouds per year due to catastrophic propeller casualties. This effort is to make initial procurement of composite shrouds (2 per craft) that will significantly reduce maintenance.

**LC006 - INDUSTRIAL PLANT EQUIPMENT**

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0970 - LCAC

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

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.

LC007 - LIGHTWEIGHT ARMOR  
The portable lightweight armor system replaces the existing armor system. The portable system can be transported via a Container Express (CONEX) box and provides the Assault Craft Unit with the ability to provide ballistic/fragmentation protection to manned spaces on the craft as well as to selected machinery components.

LC008 - Cold Weather Kits  
LCACs are required to operate in ambient temperatures as low as 10F. Snow and ice accumulation leads to actuation of a safety system that bypasses the main engine inlet air filtration system and allows engines to draw in unfiltered air. Cold weather kits prevent snow and ice accumulation in the main engines during cold weather operations.

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
LCAC	P40A				58.783			-			16.645			14.431			-			14.431
<b>Total Gross/Weapon System Cost</b>					<b>58.783</b>			<b>-</b>			<b>16.645</b>			<b>14.431</b>			<b>-</b>			<b>14.431</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

**UNCLASSIFIED**

**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0970 - LCAC	<b>Aggregated Item Name:</b> LCAC
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Items	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) LC001 LCAC SYSTEMS UPGRADE</b>																				
1.1) MATERIAL	A		-	-	22.573	-	-	-	-	-	468,333.33	3	1.405	-	-	-	468,333.33	3	1.405	
1.2) INSTALLATION	A		-	-	9.455	-	-	-	-	-	-	-	0.040	-	-	-	-	-	0.040	
1.3) GOVT ENG & PROG SUPT	A		-	-	3.192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.4) DETAIL DESIGN & TESTING	A		-	-	1.445	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal 1) LC001 LCAC SYSTEMS UPGRADE</i>					36.665								1.445						1.445	
<b>2) LCAC</b>																				
2.1) LC002 ETF 40-B ENGINES	A		-	-	13.027	-	-	-	1,464K	7	10.247	1,492K	6	8.952	-	-	-	1,492K	6	8.952
2.2) LC003 MK16 MOD 8 GUN MOUNTS AND LIGHTWEIGHT ARMOR	A		-	-	4.128	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.3) LC005 COMPOSITE SHROUDS	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.4) LC006 INDUSTRIAL PLANT EQUIPMENT	A		-	-	4.963	-	-	-	-	-	2.401	-	-	-	-	-	-	-	-	
2.5) LC007 LIGHTWEIGHT ARMOR	A		-	-	-	-	-	-	285,500.00	14	3.997	288,142.86	14	4.034	-	-	-	288,142.86	14	4.034
2.6) LC008 COLD WEATHER KITS	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal 2) LCAC</i>					22.118						16.645			12.986					12.986	
<b>Total</b>					<b>58.783</b>						<b>16.645</b>			<b>14.431</b>					<b>14.431</b>	

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**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0977 - Underwater EOD Programs

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	43.335	17.499	35.446	36.700	-	36.700	34.258	42.461	43.408	44.178	-	297.285
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	43.335	17.499	35.446	36.700	-	36.700	34.258	42.461	43.408	44.178	-	297.285
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>43.335</b>	<b>17.499</b>	<b>35.446</b>	<b>36.700</b>	<b>-</b>	<b>36.700</b>	<b>34.258</b>	<b>42.461</b>	<b>43.408</b>	<b>44.178</b>	<b>-</b>	<b>297.285</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	6.921	0.745	1.327	-	1.327	2.587	2.694	2.951	1.509	Continuing	Continuing
Flyaway Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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. This program also includes the Marine Mammal Systems (MMS).

Systems and equipment procured under this funding line include Unmanned Underwater Vehicles, Underwater Diver Integrated Sensor Suites, Advanced Firing Systems, Marine Mammal Systems and Equipment, and Diver Safety & Life Support Systems.

[P40A / UQ019-MINE WARFARE VULNERABILITY IDENTIFICATION PROGRAM (MIW-VIP)]: Measures magnetic and acoustic signatures using existing ranges and portable ranges (Forward Area Combined Degaussing and Acoustic Range (FACDAR)). Measurements will be taken in both home port areas and deployment areas to assess a ship's susceptibility to various mines.

[P40A / UQ034 - U/W EOD & MCM SYSTEM/EQUIPMENT]: UNDERWATER MINE COUNTERMEASURES (UMCM) EOD UNMANNED UNDERWATER VEHICLE (UUV): Provides for the procurement of Navy expeditionary unmanned underwater vehicles for UMCM search/localization/identification/neutralization 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.

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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment		<b>P-1 Line Item Nomenclature:</b> 0977 - Underwater EOD Programs
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
<b>MDAP/MAIS Code(s):</b>		
<p>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.</p> <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>[P40A / COCOM UUV MK 18 Mod 2 ]: Provides for procurement of of UUV MK 18 Mod 2 systems and retrofit kits for fielding advanced sensor technology upgrades, which will be employed in operational missions in Shallow Water (SW) and Very Shallow Water (VSW) environments including rotational deployments to the Fifth Fleet area of responsibility as directed by CNO. Unit costs of the advanced sensor retrofit kits will vary based on the number and type of sensor upgrades.</p> <p>[P40A / UQ035 - OUTFIT EOD/UMCM TOOLS &amp; EQUIPMENT]: 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>[P40A / UQ036 - DIVER SAFETY LIFE SUPPORT EQUIPMENT]: 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>[P40A / UQ037 - MARINE MAMMAL SYSTEM/EQUIPMENT]: MMS ALLOWANCE: Initial outfitting of tools/equipment for increased allowances of all Fleet MMS in accordance with CNO approved allowance list.</p> <p>MEDICAL OUTFITTING: Provides for initial outfitting of additions to medical specific items to MMS allowance. This equipment enables fleet MMS to meet care requirements articulated in SECNAVINST 3900.41D.</p> <p>MMS ENVIRONMENTAL PEN ASSEMBLIES: Provides extended deployment capabilities of deployed MCM MMS for extended periods of time to areas with varying and sometimes extreme environmental conditions.</p> <p>UNDERWATER LOW MAGNETIC TEST EQUIPMENT UPGRADE: Provides for procurement of equipment for Fleet Remote Site Facility Low Magnetic Certification.</p> <p>MARINE MAMMAL SYSTEM CONTINUOUS IMPROVEMENT PROGRAM (MMS CIP): Provides for engineering changes and initial outfitting of equipment to fleet MMS allowing for reduce footprint, and improved system effectiveness and suitability to meet EOD, Anti-Terrorism (AT)/force Protection (FP), and mission areas.</p> <p>MMS LITTORAL, PORT AND HARBOR DEFENSE OPERATIONS: Enhances Doctrine, Organization, Training, Material, Leadership, Personnel and Facilities (DOTMLPF) of fleet Marine Mammal Systems to optimize the rapid detection, identification, and clearance of mines in support of UMCM and Maritime Homeland Defense.</p> <p>MMS UMCM: Provides for the production of capabilities to support OPNAV validated and capacity needs to conduct UMCM operations by fleet Marine Mammal Systems.</p> <p>[P40A / UQ830 - PRODUCTION ENGINEERING]: Provides for production engineering support of outfitting in meeting OPNAV improved diver-based and unmanned systems fleet inventory objectives. This includes writing of contracts, production contract award, first article tests, factory acceptance tests and other production support efforts directly related to delivery of the support hardware. In addition for EOD equipment, review all technical and data packages prior to procurement and providing procurement instructions to the procuring activity for EOD and MMS production contracts.</p> <p>[P40A / UQ850 - PRODUCT IMPROVEMENT]: Provides for engineering services to improve fielded MMS Systems/EOD Diver-based and unmanned systems to improve Human Systems Integration (HSI)/ Logistics domains insert technology refresh and/or decrease costs.</p>		

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0977 - Underwater EOD Programs

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

[P40A / UQTNG - INITIAL TRAINING]: Provides training support packages which include curriculum material and training aids for Underwater EOD/UMCM systems and Marine Mammal System equipment.

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Underwater EOD Programs	P40A, P5A, P21				43.335			17.499			35.446			36.700			-			36.700
<b>Total Gross/Weapon System Cost</b>				<b>43.335</b>			<b>17.499</b>			<b>35.446</b>			<b>36.700</b>			<b>-</b>			<b>36.700</b>	

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**  
Underwater EOD Programs: The requirements for the procurement of each of these system suites are articulated in OPNAV approved requirements documents in accordance with DoD Directive 5000.2, SECNAVINST 5000.2E, and the JCIDS process as defined by CJSCINST 3170.01. Additionally, the nature of the missions assigned to EOD and MCM forces under OPNAVINST 3501.97H, Required Operational Capabilities & Projected Operational Environments (ROC/POE), require an aggregated set of systems and equipment to perform the wide range of mine countermeasures, underwater detection, location, investigation, force protection, and neutralization tasks that comprise the mission set.

The acquisition strategy approved by the milestone decision authority reflects an evolutionary and modular approach to develop, test, procure, and field the types of baseline capabilities defined by this program with attendant pre-planned product improvements and production engineering needed to maintain these capabilities in ever changing dynamic underwater threat environments.

The minor changes in funding levels from FY 13 to FY 14 reflect yearly changes in unit costs and quantities that are defined by the procurement plans to achieve required inventory objectives.

As previously detailed in the P40 exhibit, the base OPN budget funds the procurement of EOD UMCM and EOD Diving Systems and equipment in support of CNO approved requirements and established acquisition programs of record.

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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0977 - Underwater EOD Programs

**Aggregated Item Name:**  
Underwater EOD Programs

Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) UQ019-MINE WARFARE VULNERABILITY IDENTIFICATION PROGRAM (MIW-VIP)</b>																				
1.1) MIW-VIP	A		-	-	0.579	-	-	0.316	-	-	0.319	-	-	0.326	-	-	-	-	-	0.326
<i>Subtotal 1) UQ019-MINE WARFARE VULNERABILITY IDENTIFICATION PROGRAM (MIW-VIP)</i>					0.579			0.316			0.319			0.326						0.326
<b>2) UQ034 - U/W EOD &amp; MCM SYSTEM/ EQUIPMENT</b>																				
2.1) MK 18 Mod 1 UUV	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.2) MK 18 Mod 1 UMCM UUV Incremental (CIP) Retrofit Kit	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 2.3) COCOM UUV MK 18 Mod 2	A		-	-	-	-	-	2,450K	4	9.800	-	-	-	-	-	-	-	-	-	-
† 2.4) UW DIVER INTEGRATION SENSORS	A		150,000.00	40	6.000	150,000.00	32	4.800	225,000.00	20	4.500	225,000.00	23	5.175	-	-	-	225,000.00	23	5.175
† 2.5) ADVANCED FIRING SYSTEM	A		40,000.00	35	1.400	-	-	-	100,000.00	5	0.500	20,000.00	50	1.000	-	-	-	20,000.00	50	1.000
† 2.6) HULS (Vehicle Procurement)	A		-	-	-	-	-	-	-	-	541,000.00	4	2.164	-	-	-	541,000.00	4	2.164	
2.7) HULS Retrofit Kits	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 2.8) MK 18 Mod 2 UUV	A		-	-	-	-	-	-	-	-	990,000.00	6	5.940	-	-	-	990,000.00	6	5.940	
† 2.9) MK 18 Mod 2 Retrofit Kits	A		-	-	-	-	-	-	-	-	1,750K	1	1.750	-	-	-	1,750K	1	1.750	
† 2.10) Auxilliary Equipment (HULS)	A		-	-	-	-	-	-	-	-	286,000.00	4	1.144	-	-	-	286,000.00	4	1.144	
† 2.11) Auxilliary Equipment (MK 18)	A		-	-	-	-	-	-	-	-	378,000.00	9	3.402	-	-	-	378,000.00	9	3.402	
2.12) VESON	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 2.13) UMCM/EOD UUV	A		-	-	4.950	1,757K	3	5.271	1,643K	3	4.929	-	-	-	-	-	-	-	-	-
† 2.14) UMCM UUV INCREMENTAL (CIP) RETROFIT	A		1,700K	2	3.400	1,000K	1	1.000	3,145K	1	3.145	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) UQ034 - U/W EOD &amp; MCM SYSTEM/ EQUIPMENT</i>					15.750			11.071			22.874			20.575						20.575

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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0977 - Underwater EOD Programs

**Aggregated Item Name:**  
Underwater EOD Programs

Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>3) UQ035 - OUTFIT EOD/UMCM TOOLS &amp; EQUIPMENT</b>																				
3.1) UW INTEGRATED SYSTEM INTERFACE (PREVIOUSLY C4I UPGRADES)	A		-	-	0.380	-	-	0.210	-	-	0.215	-	-	0.218	-	-	-	-	-	0.218
<i>Subtotal 3) UQ035 - OUTFIT EOD/UMCM TOOLS &amp; EQUIPMENT</i>					0.380			0.210			0.215			0.218						0.218
<b>4) UQ036 - DIVER SAFETY LIFE SUPPORT EQUIPMENT</b>																				
4.1) DIVER SAFETY LIFE SUPPORT EQUIPMENT	A		-	-	-	-	-	1.200	-	-	-	-	-	2.000	-	-	-	-	-	2.000
<i>Subtotal 4) UQ036 - DIVER SAFETY LIFE SUPPORT EQUIPMENT</i>					-			1.200			-			2.000						2.000
<b>5) UQ037 - MARINE MAMMAL SYSTEM/ EQUIPMENT</b>																				
5.1) MMS UMCM	A		-	-	-	-	-	-	-	-	6.800	-	-	7.200	-	-	-	-	-	7.200
5.2) MMS ALLOWANCE	A		-	-	0.523	-	-	0.268	-	-	0.273	-	-	0.275	-	-	-	-	-	0.275
5.3) MEDICAL OUTFITTING	A		-	-	0.862	-	-	0.508	-	-	0.450	-	-	0.392	-	-	-	-	-	0.392
5.4) MMS ENVIRON PEN ASSEMBLIES	A		-	-	3.619	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.5) UW LOW MAGNETIC TEST EQUIPM UPGRADE	A		-	-	0.282	-	-	0.110	-	-	0.120	-	-	0.110	-	-	-	-	-	0.110
5.6) MMS CIP	A		-	-	2.446	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.7) MMS LITTORAL PORT & HARBOR DEFENSE OPERATIONS	A		-	-	-	-	-	1.194	-	-	1.268	-	-	1.409	-	-	-	-	-	1.409
<i>Subtotal 5) UQ037 - MARINE MAMMAL SYSTEM/EQUIPMENT</i>					7.732			2.080			8.911			9.386						9.386
<b>6) UQ830 - PRODUCTION ENGINEERING</b>																				
6.1) PRODUCTION ENGINEERING	A		-	-	3.347	-	-	1.049	-	-	1.583	-	-	2.566	-	-	-	-	-	2.566

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**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0977 - Underwater EOD Programs

**Aggregated Item Name:**  
Underwater EOD Programs

Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal 6) UQ830 - PRODUCTION ENGINEERING					3.347			1.049			1.583			2.566			-			2.566
<b>7) UQ850 - PRODUCT IMPROVEMENT</b>																				
7.1) PRODUCT IMPROVEMENT	A		-	-	3.033	-	-	1.366	-	-	1.372	-	-	1.432	-	-	-	-	-	1.432
Subtotal 7) UQ850 - PRODUCT IMPROVEMENT					3.033			1.366			1.372			1.432			-			1.432
<b>8) UQTNG - INITIAL TRAINING</b>																				
8.1) INITIAL TRAINING	A		-	-	0.474	-	-	0.207	-	-	0.172	-	-	0.197	-	-	-	-	-	0.197
8.2) MARINE MAMMAL SYSTEM (MMS) - MK 4, MK 6, MK 7, & MK 8 (OCO)	A		-	-	5.040	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.3) MARINE MAMMAL SYSTEM (MMS) - MK 6 (OCO)	A		-	-	7.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal 8) UQTNG - INITIAL TRAINING					12.514			0.207			0.172			0.197			-			0.197
<b>Total</b>					<b>43.335</b>			<b>17.499</b>			<b>35.446</b>			<b>36.700</b>			-			<b>36.700</b>

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Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Navy										Date: April 2013		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment				P-1 Line Item Nomenclature: 0977 - Underwater EOD Programs						Aggregated Item Name: Underwater EOD Programs		
Items († indicates the presence of a P-21)	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>2) UQ034 - U/W EOD &amp; MCM SYSTEM/EQUIPMENT</b>												
†2.3) COCOM UUV MK 18 Mod 2		2013	Hydroid, Inc. / MA	C / FFP	NSWCIHD, MD	Nov 2012	May 2013	4	2,450K	Y		
2.4) UW DIVER INTEGRATION SENSORS		2011	SECHAN, Inc / Poway, CA and Lititz, PA	C / FFP	NSWCIHD, MD	Sep 2011	Sep 2012	40	150,000.00	Y		
2.4) UW DIVER INTEGRATION SENSORS		2012	SECHAN, Inc / Poway, CA and Lititz, PA	C / FFP	NSWCIHD, MD	Mar 2012	Mar 2013	32	150,000.00	Y		
2.4) UW DIVER INTEGRATION SENSORS		2013	SECHAN, Inc / Poway, CA and Lititz, PA	C / FFP	NSWCIHD, MD	Mar 2013	Mar 2014	20	225,000.00	Y		
2.4) UW DIVER INTEGRATION SENSORS		2014	SECHAN, Inc / Poway, CA and Lititz, PA	C / FFP	NSWCIHD, MD	May 2014	May 2015	23	225,000.00	Y		
2.5) ADVANCED FIRING SYSTEM		2011	ARL / UT	C / FFP	NAVSEA, HQ	Jun 2011	Jun 2012	35	20,000.00	Y		
2.5) ADVANCED FIRING SYSTEM		2013	ARL / UT	C / FFP	NAVSEA, HQ	Apr 2013	Apr 2014	5	100,000.00	Y		
2.5) ADVANCED FIRING SYSTEM		2014	ARL / UT	C / FFP	NAVSEA, HQ	May 2014	May 2015	50	20,000.00	Y		
2.6) HULS (Vehicle Procurement)		2014	Bluefin / Maine	C / FFP	NSWCIHD, MD	Mar 2014	Mar 2015	4	541,000.00	Y		
†2.8) MK 18 Mod 2 UUV		2014	Hydroid, Inc. / MA	C / FFP	NSWCIH, MD	Mar 2014	Mar 2015	6	990,000.00	Y		
2.9) MK 18 Mod 2 Retrofit Kits		2014	Hydroid, Inc. / MA	C / FFP	NSWCIH, MD	Mar 2014	Mar 2015	1	1,750K	Y		
2.10) Auxilliary Equipment (HULS)		2014	Bluefin / Maine	C / FFP	NSWCIH, MD	Mar 2014	Mar 2015	4	286,000.00	Y		
2.11) Auxilliary Equipment (MK 18)		2014	Hydroid, Inc. / MA	C / FFP	NSWCIH, MD	Mar 2014	Mar 2015	9	378,000.00	Y		
2.13) UCMC/EOD UUV		2012	Hydroid, Inc. / BLUFIN, MA	C / FFP	NSWCIHD, MD	Apr 2012	Apr 2013	3	1,757K	Y		
2.13) UCMC/EOD UUV		2013	Hydroid, Inc. / BLUFIN, MA	C / FFP	NSWCIHD, MD	Jun 2013	Jun 2014	3	1,643K	Y		
2.14) UCMC UUV INCREMENTAL (CIP) RETROFIT		2011	Hydroid, Inc. / BLUFIN, MA	C / FFP	NSWCIHD, MD	Jun 2011	Jun 2012	2	500,000.00	Y		
2.14) UCMC UUV INCREMENTAL (CIP) RETROFIT		2012	Hydroid, Inc. / BLUFIN, MA	C / FFP	NSWCIHD, MD	May 2012	May 2013	1	1,000K	Y		
2.14) UCMC UUV INCREMENTAL (CIP) RETROFIT		2013	Hydroid, Inc. / BLUFIN, MA	C / FFP	NSWCIHD, MD	Jun 2013	Jun 2014	1	3,145K	Y		

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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2014 Navy		Date: April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0977 - Underwater EOD Programs	<b>Aggregated Item Name:</b> Underwater EOD Programs

Items <i>(Units in Each)</i>						Fiscal Year 2011												Fiscal Year 2012														
O C C O	M F R #	FY	SERVICE <sup>±</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT 2010	BAL DUE AS OF 1 OCT	Calendar Year 2011												Calendar Year 2012													
							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	B A L	
2) UQ034 - U/W EOD & MCM SYSTEM/EQUIPMENT																																
2.3) COCOM UUV MK 18 Mod 2																																
	11	2013	NAVY	4	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
2.8) MK 18 Mod 2 UUV																																
	12	2014	NAVY	6	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	
							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	B A L	



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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2014 Navy		Date: April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0977 - Underwater EOD Programs	<b>Aggregated Item Name:</b> Underwater EOD Programs

Items <i>(Units in Each)</i>						Fiscal Year 2015												Fiscal Year 2016													
O C C O	M F R #	F Y	S E R V I C E <sup>±</sup>	P R O C Q T Y	A C C E P T O 1 O C T 2 0 1 4	B A L D U E A S O F 1 O C T	Calendar Year 2015												Calendar Year 2016												
							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	B A L
2) UQ034 - U/W EOD & MCM SYSTEM/EQUIPMENT																															
2.3) COCOM UUV MK 18 Mod 2																															
	11	2013	NAVY	4	4	-																									
2.8) MK 18 Mod 2 UUV																															
	12	2014	NAVY	6	-	6	-	-	-	-	-	-	6																		
							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	B A L

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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0977 - Underwater EOD Programs	<b>Aggregated Item Name:</b> Underwater EOD Programs

MFR #	MFR Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR	1-8-5	MAX	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	Hydroid, Inc. - MA	-	-	-	-	-	-	-	-	-	-	-	-
2	Hydroid, Inc. - MA	-	-	-	-	-	-	-	-	-	-	-	-

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

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**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0981 - Items less than \$5 Million

**ID Code** (A=Service Ready, B=Not Service Ready) : B **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	341.230	94.963	65.998	119.902	-	119.902	125.818	150.276	137.955	101.027	2.900	1,140.069
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	341.230	94.963	65.998	119.902	-	119.902	125.818	150.276	137.955	101.027	2.900	1,140.069
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>341.230</b>	<b>94.963</b>	<b>65.998</b>	<b>119.902</b>	<b>-</b>	<b>119.902</b>	<b>125.818</b>	<b>150.276</b>	<b>137.955</b>	<b>101.027</b>	<b>2.900</b>	<b>1,140.069</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	1.745	4.294	4.160	-	4.160	0.913	0.265	-	-	-	11.377
Flyaway Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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 CVN Class Machinery Plant Upgrades, MACHALTs, AS 39 Modernization, Carrier Auto Voltage Regulator (AVR), Solid State Lighting, and Patrol Coastal Modernization.

Note: LCC 19/20 Extended Service Life Program (ESLP) and LHA/LHD Midlife FY 14 and later funding associated with new efforts have been budgeted in new line items OPN 0934 (LCC ESLP) and OPN 0933 (LHA/LHD Midlife)

[P40A / LT040 - AEC]: LT040 - AEC (ASSESSMENT OF EQUIPMENT CONDITION)

This supports the implementation of Condition Based Maintenance (CBM) by providing work package validation for HM&E systems, pre-deployment HM&E systems condition assessment, 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.

[P40A / LT060 - Machalts]: LT060 - MACHALTS

The Machinery Alteration Program (MACHALT) permits SHIPMAIN approved changes to HM&E equipment and systems which are contained within the boundaries of the individual equipment of systems and have limited system ramifications.

[P40A / LT110 - Propellers and Shafts]: LT110- VARIOUS PROPELLERS AND SHAFTS

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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment		<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
<b>MDAP/MAIS Code(s):</b>		
<p>This funding procures spare waterborne 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 due to scheduled replacement caused by lifecycle wear and unscheduled replacements caused by CASREPs. The component have long repair turn-around times (1-2 years) and thus cannot be repaired and reused during an availability. The technical requirements and drydocking constraints drives the program to establish a rotatable pool to support replacements. The growing size of the DDG 51 class is driving the requirement to increase the number of spares to support a rotatable pool and ensure readiness. A malfunctioning propeller or shaft may result in excessive vibration, which could lead to damage of ship structures and equipment (bearings, main reduction gears, and bulkhead seal), increase of ship cavitation/ noise, loss of speed or loss of motion.</p> <p>[P40A / LT120 - Carrier Propulsion Plant Inspection]: Funds will be utilized to procure the latest technology inspection system tooling, i.e., laser-optic, ultrasonic, fiber-optic, electro-optic and computed radiography inspection systems.</p> <p>[P40A / LT130 - Steam Propulsion Items]: LT130 - STEAM PROPULSION ITEMS This provides for several initiatives oriented to upgrading boiler efficiency and safety with downstream maintenance effectiveness. In particular, the items procured include: Upgraded Stack Gas Analyzer (SGA) , Optimization Trim Loop Material including fuel oil meters, stack gas temperature sensors, electronic automatic boiler controls interface software/schema to improve steam plant efficiency, Upgraded electronic automatic boiler control (E-ABC) system process controllers/smart transmitters, Upgraded Boiler Water/Feedwater (BW/FW) Chemistry Analysis/Carbohydrazide Implementation Equipment., Upgraded SSTG Protective Devices (Overspeed Trips), and Upgrades to Boiler Igniter System (BIS) (Fuel Valve and Insert/Retract Air Actuators). The Steam Propulsion Improvement Program provides safe and reliable power 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 scheduled or unscheduled availability by a shipyard, tender/Intermediate Maintenance Activity or Alteration Installation Team (AIT).</p> <p>[P40A / LT311 - Integrated Condition Assessment System (ICAS)]: LT311-INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) 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>[P40A / LT830 - Carrier Production Engineering]: The review and approval of any production contract technical documentation, or the separate development of this documentation, to include: Technical Manuals, Planned Maintenance System (PMS), Level III Production Drawings, Provisioning Technical Documentation (PTD), Program Support Data (PSD), and Allowance Parts List (APL); engineering support for final design reviews.</p> <p>[P3A / LT160 - Machinery Plant Upgrades]: LT160 - MACHINERY PLANT UPGRADES (INTEGRATED COMMUNICATIONS AND ADVANCED NETWORK (ICAN) 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>[P3A / LT240 - LPD17 HF Ale]: LT240 -LPD 17 HF ALE, FORCENET UPGRADE, HARDWARE/SOFTWARE OBSOLESCENCE, SCHOOLHOUSE TTE: Forcenet Upgrade funding is 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. SCHOOLHOUSE TTE: Funding for Schoolhouse Technical Training Equipment (TTE) is for the infrastructure and equipment to set up the school houses for multiple systems such as ECS, SCS and SWAN. The schoolhouses will provide critical training to Sailors in operation and maintenance of those systems. HF ALE 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>[P3A / LT306 - Automated Voltage Regulator (AVR)]: LT306 - AUTOMATED VOLTAGE REGULATOR</p>		

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment		<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
<b>MDAP/MAIS Code(s):</b>		
<p>The CVN Automatic Voltage Regulator (AVR) 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>[P3A / LT307 - Carrier Canned Lube Oil Pump]: 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>[P3A / LT308 - LHD Midlife, LHA Midlife/Sustainability]: LT308 - LHD MIDLIFE, LHA MIDLIFE/SUSTAINMENT 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>[P3A / LT309 - Solid-State Lighting (SSL)]: LT309- SOLID-STATE LIGHTING (SSL) FIXTURES 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. Funds provide for replacement of fluorescent and incandescent lighting fixtures installed on surface combatants and Amphibious Class ships with a Solid-State Lighting (SSL) fixtures.</p> <p>[P3A / LT312 - T-AGS AUV Support System]: LT312 - T-AGS 66 OCEANOGRAPHIC SURVEY MISSION EQUIPMENT Funds provide for the procurement and installation of Oceanographic Survey Mission equipment for the T-AGS 66. Specifically, a Side Scan Sonar (SSS), Autonomous Undersea Vehicle (AUV) Support System and Moving Vessel Profiler (MVP).</p> <p>[P3A / LT313 - AS-39 Modernization Electrical Upgrade]: LT313 - AS-39 MODERNIZATION Modifications to correct obsolescence and safety issues on AS39 Class tenders in order to maintain, improve, and extend the service life of a class of two ships. Upgrades include procurement and installation of switchboards, upgrades to the steam propulsion plant, traveling crane replacement and installation of HVAC upgrades.</p> <p>[P3A / LT315 - LCC20 Electrical Improvements.]: LCC EXTENDED SERVICE LIFE PROGRAM Funds provide for the procurement and installation of equipment in support of LCC 20 Extended Service Life Program extending this ship to a 2039 service life. Funds specifically provided for LCC 20 Electrical Switchboard upgrades.</p> <p>[P3A / LT316 - Patrol Coastal ECDIS]: LT316 - PATROL COASTAL MODERNIZATION 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, Navigation upgrades, Electronic Chart Display and Information System-Navy (ECDIS-N) upgrades and procurement and install of Forward Looking Infrared (FLIR).</p> <p>[P3A / LT318 - Carriers Passive Countermeasures System (PCMS)]: classified effort</p>		

**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0981 - Items less than \$5 Million

**ID Code** (A=Service Ready, B=Not Service Ready) : B **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Items Less than \$5M Programs	P40A, P5A				89.623			39.776			15.712			13.271			-			13.271
1 - LT160 - Machinery Plant Upgrades	P3A				109.064			18.036			26.192			55.863			-			55.863
2 - LT240 - LPD17 HF Ale	P3A				4.150			1.200			0.700			-			-			-
3 - LT240 - LPD17 Forcenet Upgrade (IPV6)	P3A				51.203			2.700			-			-			-			-
4 - LT306 - Automated Voltage Regulator (AVR)	P3A				30.688			13.599			0.717			7.231			-			7.231
5 - LT307 - Carrier Canned Lube Oil Pump	P3A				3.100			1.695			7.139			7.228			-			7.228
6 - LT308 - LHD Midlife, LHA Midlife/Sustainability	P3A				15.025			-			-			2.727			-			2.727
7 - LT309 - Solid-State Lighting (SSL)	P3A				0.000			5.168			6.253			6.564			-			6.564
8 - LT312 - T-AGS AUV Support System	P3A				0.000			1.538			1.721			-			-			-
9 - LT312 - T-AGS Mission Equipment Moving Vessel Profiler (MVP)	P3A				0.000			0.762			0.100			-			-			-
10 - LT312 - T-AGS Side Scan Sonar (SSS)	P3A				0.000			0.650			0.075			-			-			-
11 - LT313 - AS-39 Modernization Electrical Upgrade	P3A				4.076			1.733			0.450			-			-			-
12 - LT313 - AS-39 Modernization Main Propulsion	P3A				15.658			2.082			-			-			-			-
13 - LT313 - AS-39 Modernization Replace Traveling Cranes	P3A				3.321			0.500			1.182			-			-			-
14 - LT314 - Carrier Oil Water Separator	P3A				0.000			-			-			1.745			-			1.745
15 - LT315 - LCC20 Electrical Improvements.	P3A				0.000			-			2.506			2.980			-			2.980
16 - LT316 - Patrol Coastal ECDIS	P3A				1.600			1.295			0.610			1.270			-			1.270
17 - LT316 - Patrol Coastal HVAC Upgrade	P3A				12.400			-			-			-			-			-
18 - LT316 - Patrol Coastal Navigation Upgrade	P3A				1.322			0.664			2.641			2.167			-			2.167

**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0981 - Items less than \$5 Million

**ID Code** (A=Service Ready, B=Not Service Ready) : B **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
19 - LT316 - Patrol Coastal FLIR	P3A				0.000			1.151			-			0.510			-			0.510
20 - LT316 - Patrol Coastal HVAC Upgrades Phase II	P3A				0.000			-			-			-			-			-
21 - LT316 - Patrol Coastal Rigid-Hulled Inflatable Boat (RHIB)	P3A				0.000			-			-			-			-			-
22 - LT318 - Carriers Passive Countermeasures System (PCMS)	P3A				0.000			2.414			-			18.346			-			18.346
<b>Total Gross/Weapon System Cost</b>					<b>341.230</b>			<b>94.963</b>			<b>65.998</b>			<b>119.902</b>			<b>-</b>			<b>119.902</b>

Item Schedule		ID CD	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Items Less than \$5M Programs	P40A, P5A				-			-			-			-			-			-
1 - LT160 - Machinery Plant Upgrades	P3A				52.318			59.815			56.562			46.016			-			423.866
2 - LT240 - LPD17 HF Ale	P3A				-			-			-			-			-			6.050
3 - LT240 - LPD17 Forcenet Upgrade (IPV6)	P3A				-			-			-			-			-			53.903
4 - LT306 - Automated Voltage Regulator (AVR)	P3A				6.086			1.864			3.340			-			-			63.525
5 - LT307 - Carrier Canned Lube Oil Pump	P3A				3.276			-			-			-			-			22.438
6 - LT308 - LHD Midlife, LHA Midlife/Sustainability	P3A				9.014			8.665			-			-			-			35.431
7 - LT309 - Solid-State Lighting (SSL)	P3A				6.602			6.379			7.260			7.361			-			45.587
8 - LT312 - T-AGS AUV Support System	P3A				-			-			-			-			-			3.259
9 - LT312 - T-AGS Mission Equipment Moving Vessel Profiler (MVP)	P3A				-			-			-			-			-			0.862
10 - LT312 - T-AGS Side Scan Sonar (SSS)	P3A				-			-			-			-			-			0.725
11 - LT313 - AS-39 Modernization Electrical Upgrade	P3A				-			-			-			-			-			6.259

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**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0981 - Items less than \$5 Million

**ID Code** (A=Service Ready, B=Not Service Ready) : B **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Item Schedule		ID CD	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
12 - LT313 - AS-39 Modernization Main Propulsion	P3A				-			-			-			-			-			17.740
13 - LT313 - AS-39 Modernization Replace Traveling Cranes	P3A				-			-			-			-			-			5.003
14 - LT314 - Carrier Oil Water Separator	P3A				4.733			6.076			8.956			7.978			2.900			32.388
15 - LT315 - LCC20 Electrical Improvements.	P3A				-			-			-			-			-			5.486
16 - LT316 - Patrol Coastal ECDIS	P3A				2.390			1.750			-			-			-			8.915
17 - LT316 - Patrol Coastal HVAC Upgrade	P3A				0.250			9.750			-			-			-			22.400
18 - LT316 - Patrol Coastal Navigation Upgrade	P3A				2.021			0.392			-			-			-			9.207
19 - LT316 - Patrol Coastal FLIR	P3A				0.510			4.620			-			-			-			6.791
20 - LT316 - Patrol Coastal HVAC Upgrades Phase II	P3A				-			2.600			3.750			-			-			6.350
21 - LT316 - Patrol Coastal Rigid-Hulled Inflatable Boat (RHIB)	P3A				0.050			1.335			2.450			-			-			3.835
22 - LT318 - Carriers Passive Countermeasures System (PCMS)	P3A				19.000			24.000			17.500			18.000			-			99.260
<b>Total Gross/Weapon System Cost</b>					<b>125.818</b>			<b>150.276</b>			<b>137.955</b>			<b>101.027</b>			<b>2.900</b>			<b>1,140.069</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

**UNCLASSIFIED**

Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy																	Date: April 2013			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment					P-1 Line Item Nomenclature: 0981 - Items less than \$5 Million							Aggregated Item Name: Items Less than \$5M Programs								
Items († indicates the presence of a P-5A)	ID CD	MDAP/ MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) LT040 - AEC</b>																				
1.1) AEC	A		-	-	1.697	-	-	0.442	-	-	0.452	-	-	0.365	-	-	-	-	-	0.365
<i>Subtotal 1) LT040 - AEC</i>					1.697			0.442			0.452			0.365			-			0.365
<b>2) LT060 - Machalts</b>																				
2.1) Machalts (Amphib Ships)	A		-	-	7.856	-	-	4.702	-	-	1.914	-	-	2.072	-	-	-	-	-	2.072
2.2) Machalts (Surface Ships)	A		-	-	31.750	-	-	10.411	-	-	10.970	-	-	8.177	-	-	-	-	-	8.177
<i>Subtotal 2) LT060 - Machalts</i>					39.606			15.113			12.884			10.249			-			10.249
<b>3) LT110 - Propellers and Shafts</b>																				
3.1) Blade Set Port/ STBD, DDG 51 CL	B		503,000.00	1	0.503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 3.2) Hub Port DDG51 CL	A		792,500.00	2	1.585	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 3.3) Hub STBD DDG51 CL	A		919,000.00	4	3.676	940,000.00	1	0.940	-	-	-	955,000.00	1	0.955	-	-	-	955,000.00	1	0.955
† 3.4) Prop Shaft DDG51 CL	A		1,627K	5	8.137	1,436K	1	1.436	-	-	-	-	-	-	-	-	-	-	-	-
† 3.5) Stern Tube DDG51 CL	A		1,074K	7	7.520	1,116K	1	1.116	1,152K	1	1.152	1,108K	1	1.108	-	-	-	1,108K	1	1.108
† 3.6) Oil Distribution (OD) Box, STBD DDG 51 CL CPP	A		201,000.00	7	1.407	235,000.00	1	0.235	239,000.00	1	0.239	-	-	-	-	-	-	-	-	-
† 3.7) Oil Distribution (OD) Box, Port DDG 51 CL CPP	A		201,000.00	2	0.402	-	-	-	233,000.00	1	0.233	-	-	-	-	-	-	-	-	-
<i>Subtotal 3) LT110 - Propellers and Shafts</i>					23.230			3.727			1.624			2.063			-			2.063
<b>4) LT120 - Carrier Propulsion Plant Inspection</b>																				
4.1) Propulsion Plant Inspection	A		-	-	0.693	-	-	0.170	-	-	0.170	-	-	0.170	-	-	-	-	-	0.170
<i>Subtotal 4) LT120 - Carrier Propulsion Plant Inspection</i>					0.693			0.170			0.170			0.170			-			0.170
<b>5) LT130 - Steam Propulsion Items</b>																				
5.1) Steam Propulsion Items	A		-	-	1.199	-	-	0.317	-	-	0.327	-	-	0.384	-	-	-	-	-	0.384
<i>Subtotal 5) LT130 - Steam Propulsion Items</i>					1.199			0.317			0.327			0.384			-			0.384

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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0981 - Items less than \$5 Million

**Aggregated Item Name:**  
Items Less than \$5M Programs

Items († indicates the presence of a P-5A)	ID	MDAP/ MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total			
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)																
<b>6) LT240 - LPD17</b>																					
† 6.1) Schoolhouse TTE	A		-	-	-	6,500K	1	6.500	-	-	-	-	-	-	-	-	-	-	-	-	
† 6.2) HW/SW Obsolescence	A		8,233K	1	8.233	9,377K	1	9.377	-	-	-	-	-	-	-	-	-	-	-	-	
6.3) HW/SW Obsolescence Installation	A		-	-	-	-	-	1.403	-	-	-	-	-	-	-	-	-	-	-	-	
6.4) Shore Based Spares	A		-	-	14.807	-	-	2.687	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal 6) LT240 - LPD17</i>					23.040			19.967													
<b>7) LT311 - Integrated Condition Assessment System (ICAS)</b>																					
7.1) ICAS	A		-	-	-	-	-	-	-	-	0.215	-	-	-	-	-	-	-	-	-	
<i>Subtotal 7) LT311 - Integrated Condition Assessment System (ICAS)</i>					-			-			0.215										
<b>8) LT316 - PC Spares</b>																					
8.1) Navigation	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8.2) ECDIS-N	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8.3) FLIR	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8.4) HVAC	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8.5) MPDE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8.6) RHIB	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal 8) LT316 - PC Spares</i>					0.000			-			-			-			-			-	
<b>9) LT830 - Carrier Production Engineering</b>																					
9.1) Production Engineering	A		-	-	0.158	-	-	0.040	-	-	0.040	-	-	0.040	-	-	-	-	-	0.040	
<i>Subtotal 9) LT830 - Carrier Production Engineering</i>					0.158			0.040			0.040			0.040						-	0.040
<b>Total</b>					<b>89.623</b>			<b>39.776</b>			<b>15.712</b>			<b>13.271</b>						<b>13.271</b>	

**UNCLASSIFIED**

**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0981 - Items less than \$5 Million

**Aggregated Item Name:**  
Items Less than \$5M Programs

Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) LT040 - AEC</b>																				
1.1) AEC	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 1) LT040 - AEC</i>					-			-			-			-			-			-
<b>2) LT060 - Machalts</b>																				
2.1) Machalts (Amphib Ships)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.2) Machalts (Surface Ships)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) LT060 - Machalts</i>					-			-			-			-			-			-
<b>3) LT110 - Propellers and Shafts</b>																				
3.1) Blade Set Port/STBD, DDG 51 CL	B		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 3.2) Hub Port DDG51 CL	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 3.3) Hub STBD DDG51 CL	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 3.4) Prop Shaft DDG51 CL	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 3.5) Stern Tube DDG51 CL	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 3.6) Oil Distribution (OD) Box, STBD DDG 51 CL CPP	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 3.7) Oil Distribution (OD) Box, Port DDG 51 CL CPP	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 3) LT110 - Propellers and Shafts</i>					-			-			-			-			-			-
<b>4) LT120 - Carrier Propulsion Plant Inspection</b>																				
4.1) Propulsion Plant Inspection	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 4) LT120 - Carrier Propulsion Plant Inspection</i>					-			-			-			-			-			-
<b>5) LT130 - Steam Propulsion Items</b>																				
5.1) Steam Propulsion Items	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 5) LT130 - Steam Propulsion Items</i>					-			-			-			-			-			-

**UNCLASSIFIED**

**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0981 - Items less than \$5 Million

**Aggregated Item Name:**  
Items Less than \$5M Programs

Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>6) LT240 - LPD17</b>																				
† 6.1) Schoolhouse TTE	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 6.2) HW/SW Obsolescence	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.3) HW/SW Obsolescence Installation	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.4) Shore Based Spares	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 6) LT240 - LPD17</i>					-			-			-			-			-			-
<b>7) LT311 - Integrated Condition Assessment System (ICAS)</b>																				
7.1) ICAS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 7) LT311 - Integrated Condition Assessment System (ICAS)</i>					-			-			-			-			-			-
<b>8) LT316 - PC Spares</b>																				
8.1) Navigation	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.2) ECDIS-N	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.3) FLIR	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.4) HVAC	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.5) MPDE	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.6) RHIB	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 8) LT316 - PC Spares</i>					-			-			-			-			-			-
<b>9) LT830 - Carrier Production Engineering</b>																				
9.1) Production Engineering	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 9) LT830 - Carrier Production Engineering</i>					-			-			-			-			-			-
<b>Total</b>					-			-			-			-			-			-

**UNCLASSIFIED**

Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Navy										Date: April 2013		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment				P-1 Line Item Nomenclature: 0981 - Items less than \$5 Million				Aggregated Item Name: Items Less than \$5M Programs				
Items	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>3) LT110 - Propellers and Shafts</b>												
3.2) Hub Port DDG51 CL		2011	Rolls Royce / MS	C / FP	NAVSUP	May 2012	May 2014	1	800,000.00	N		
3.3) Hub STBD DDG51 CL		2011	Rolls Royce / MS	C / FP	NAVSUP	May 2012	May 2014	2	800,000.00	N		
3.3) Hub STBD DDG51 CL		2012	Rolls Royce / MS	C / FP	NAVSUP	Sep 2012	Sep 2014	1	940,000.00	N		
3.3) Hub STBD DDG51 CL		2014	Rolls Royce / MS	C / FP	NAVSUP	Jun 2014	Jun 2016	1	955,000.00	N		
3.4) Prop Shaft DDG51 CL		2011	Erie Forge / PA	C / FP	NAVSUP	Aug 2012	Aug 2016	1	1,427K	N		
3.4) Prop Shaft DDG51 CL		2012	Erie Forge / PA	C / FP	NAVSUP	Sep 2012	Sep 2016	1	1,436K	N		
3.5) Stern Tube DDG51 CL		2011	Erie Forge / PA	C / FP	NAVSUP	Aug 2012	Aug 2016	2	1,100K	N		
3.5) Stern Tube DDG51 CL		2012	Erie Forge / PA	C / FP	NAVSUP	Sep 2012	Sep 2016	1	1,116K	N		
3.5) Stern Tube DDG51 CL		2013	Erie Forge / PA	C / FP	NAVSUP	Jul 2013	Jul 2017	1	1,152K	N		
3.5) Stern Tube DDG51 CL		2014	Erie Forge / PA	C / FP	NAVSUP	Jul 2014	Jul 2018	1	1,108K	N		
3.6) Oil Distribution (OD) Box, STBD DDG 51 CL CPP		2011	Rolls Royce / MS	C / FP	NAVSUP	May 2012	May 2014	2	205,000.00	N		
3.6) Oil Distribution (OD) Box, STBD DDG 51 CL CPP		2012	Rolls Royce / MS	C / FP	NAVSUP	Sep 2012	Sep 2014	1	235,000.00	N		
3.6) Oil Distribution (OD) Box, STBD DDG 51 CL CPP		2013	Rolls Royce / MS	C / FP	NAVSUP	Jul 2013	Jul 2015	1	239,000.00	N		
3.7) Oil Distribution (OD) Box, Port DDG 51 CL CPP		2011	Rolls Royce / MS	C / FP	NAVICP	May 2012	May 2014	1	205,000.00	N		
3.7) Oil Distribution (OD) Box, Port DDG 51 CL CPP		2013	Rolls Royce / MS	C / FP	NAVSUP	Jul 2013	Jul 2015	1	233,000.00	N		
<b>6) LT240 - LPD17</b>												
6.1) Schoolhouse TTE		2012	NSWC/CD / PHILADELPHIA, PA	C / CPAF	NAVSEA	Aug 2012	Mar 2013	1	6,500K	Y		
6.2) HW/SW Obsolescence		2012	VARIOIUS / VARIOUS	C / CPAF	NAVSEA	Jun 2012	Jan 2013	1	9,377K	N		

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - LT160 - Machinery Plant Upgrades

<b>Models of Systems Affected:</b> Machinery Plant Upgrades	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	109.064	18.036	26.192	55.863	-	55.863	52.318	59.815	56.562	46.016	-	423.866
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	109.064	18.036	26.192	55.863	-	55.863	52.318	59.815	56.562	46.016	-	423.866
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>109.064</b>	<b>18.036</b>	<b>26.192</b>	<b>55.863</b>	<b>-</b>	<b>55.863</b>	<b>52.318</b>	<b>59.815</b>	<b>56.562</b>	<b>46.016</b>	<b>-</b>	<b>423.866</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

[Machinery Plant Upgrades]

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy										<b>Date:</b> April 2013			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment					<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million					<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - LT160 - Machinery Plant Upgrades			
<b>Models of Systems Affected:</b> Machinery Plant Upgrades				<b>Type Modification:</b> [No Modification Type Specified]				<b>Related RDT&amp;E PEs:</b>					

Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
LT160 - Machinery Plant Upgrades												
B Kits												
Recurring												
1.1.1) Machinery Plant Upgrades - NonOrganic <sup>(1)</sup>	17 / 35.156	2 / 6.400	2 / 6.316	5 / 15.400	- / -	5 / 15.400	3 / 9.472	4 / 13.488	3 / 10.249	3 / 9.556	- / -	39 / 106.037
<i>Subtotal Recurring</i>	17 / 35.156	2 / 6.400	2 / 6.316	5 / 15.400	- / -	5 / 15.400	3 / 9.472	4 / 13.488	3 / 10.249	3 / 9.556	- / -	39 / 106.037
<i>Total, LT160 - Machinery Plant Upgrades</i>	17 / 35.156	2 / 6.400	2 / 6.316	5 / 15.400	- / -	5 / 15.400	3 / 9.472	4 / 13.488	3 / 10.249	3 / 9.556	- / -	39 / 106.037
<b>Total Procurement, All Modifications</b>	17 / 35.156	2 / 6.400	2 / 6.316	5 / 15.400	- / -	5 / 15.400	3 / 9.472	4 / 13.488	3 / 10.249	3 / 9.556	- / -	39 / 106.037
<b>Total Procurement and Support</b>	35.156	6.400	6.316	15.400	-	15.400	9.472	13.488	10.249	9.556	-	106.037
LT160 - Machinery Plant Upgrades Installation Cost	- / 73.908	- / 11.636	- / 19.876	- / 40.463	- / -	- / 40.463	- / 42.846	- / 46.327	- / 46.313	- / 36.460	- / -	- / 317.829
<i>Total Installation Cost</i>	- / 73.908	- / 11.636	- / 19.876	- / 40.463	- / -	- / 40.463	- / 42.846	- / 46.327	- / 46.313	- / 36.460	- / -	- / 317.829
<b>Total Cost (Procurement + Support + Installation)</b>	109.064	18.036	26.192	55.863	-	55.863	52.318	59.815	56.562	46.016	-	423.866

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - LT160 - Machinery Plant Upgrades

<b>Models of Systems Affected:</b> Machinery Plant Upgrades	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information: LT160 - Machinery Plant Upgrades</b>							
Manufacturer Name: various				Manufacturer Location: various			
Administrative Leadtime ( <i>in Months</i> ): 2				Production Leadtime ( <i>in Months</i> ): 5			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates	Feb 2012	Feb 2013	Nov 2013				
Delivery Dates	Jul 2012	Jul 2013	Apr 2014				

<b>Installation:</b> LT160 - Machinery Plant Upgrades				<b>Method of Implementation:</b> AIT				<b>Installation Name:</b> Machinery Plant Upgrades				
<b>Installation Cost</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO</b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)			
All Prior Years	17 / 72.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 72.800
FY 2012	0 / 1.108	2 / 10.446	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 11.554
FY 2013	- / -	- / 1.190	2 / 12.684	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 13.874
FY 2014	- / -	- / -	- / 7.192	4 / 37.163	- / -	4 / 37.163	1 / 9.503	- / -	- / -	- / -	- / -	5 / 53.858
FY 2015	- / -	- / -	- / -	- / 3.300	- / -	- / 3.300	3 / 28.543	- / -	- / -	- / -	- / -	3 / 31.843
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.800	4 / 41.827	- / -	- / -	- / -	4 / 46.627
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.500	3 / 41.813	- / -	- / -	3 / 46.313
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.500	3 / 36.460	- / -	3 / 40.960
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	<b>17 / 73.908</b>	<b>2 / 11.636</b>	<b>2 / 19.876</b>	<b>4 / 40.463</b>	<b>- / -</b>	<b>4 / 40.463</b>	<b>4 / 42.846</b>	<b>4 / 46.327</b>	<b>3 / 46.313</b>	<b>3 / 36.460</b>	<b>- / -</b>	<b>39 / 317.829</b>

<b>Installation Schedule</b>																															
	<b>APY</b>	<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>TC</b>	<b>Tot</b>
		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>																										
In	17	-	-	-	2	-	-	2	-	-	-	2	2	1	1	2	-	-	3	1	-	-	2	1	-	-	3	-	-	-	-
Out	16	-	1	-	-	1	1	-	-	-	2	-	-	2	2	2	-	2	-	-	3	1	-	-	1	2	-	-	3	-	-

**Footnotes:**  
(1) The cost of a shipset and install can vary depending on the carrier.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - LT240 - LPD17 HF Ale

<b>Models of Systems Affected:</b> LPD17 HF Ale;			<b>Type Modification:</b> [No Modification Type Specified]				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	4.150	1.200	0.700	-	-	-	-	-	-	-	-	6.050
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	4.150	1.200	0.700	-	-	-	-	-	-	-	-	6.050
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>4.150</b>	<b>1.200</b>	<b>0.700</b>	-	-	-	-	-	-	-	-	<b>6.050</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

[HF Ale]

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - LT240 - LPD17 HF Ale

<b>Models of Systems Affected:</b> LPD17 HF Ale;	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
LT240 - LPD17 HF Ale												
B Kits												
Recurring												
1.1.1) HF Ale - NonOrganic	6 / 2.850	2 / 0.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 3.750
<i>Subtotal Recurring</i>	6 / 2.850	2 / 0.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 3.750
<i>Total, LT240 - LPD17 HF Ale</i>	6 / 2.850	2 / 0.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 3.750
<i>Total Procurement, All Modifications</i>	6 / 2.850	2 / 0.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 3.750
<b>Total Procurement and Support</b>	2.850	0.900	-	-	-	-	-	-	-	-	-	3.750
LT240 - LPD17 HF Ale Installation Cost	- / 1.300	- / 0.300	- / 0.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.300
<i>Total Installation Cost</i>	- / 1.300	- / 0.300	- / 0.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.300
<b>Total Cost (Procurement + Support + Installation)</b>	4.150	1.200	0.700	-	-	-	-	-	-	-	-	6.050

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - LT240 - LPD17 HF Ale

<b>Models of Systems Affected:</b> LPD17 HF Ale;	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information:</b> LT240 - LPD17 HF Ale
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Manufacturer Name: Harris	Manufacturer Location: NY
Administrative Leadtime ( <i>in Months</i> ): 3	Production Leadtime ( <i>in Months</i> ): 14

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Jan 2012						
Delivery Dates	Mar 2013						

<b>Installation:</b> LT240 - LPD17 HF Ale	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> HF Ale
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	5 / 1.300	1 / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.600
FY 2012	- / -	- / -	2 / 0.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.700
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	5 / 1.300	1 / 0.300	2 / 0.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 2.300

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	-	-	1	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	5	-	-	-	-	-	1	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - LT240 - LPD17 Forcenet Upgrade (IPV6)

<b>Models of Systems Affected:</b> LPD17 Forcenet Upgrade	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	51.203	2.700	-	-	-	-	-	-	-	-	-	53.903
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	51.203	2.700	-	-	-	-	-	-	-	-	-	53.903
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>51.203</b>	<b>2.700</b>	-	-	-	-	-	-	-	-	-	<b>53.903</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - LT240 - LPD17 Forcenet Upgrade (IPV6)

<b>Models of Systems Affected:</b> LPD17 Forcenet Upgrade	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
LT240 - LPD17 Forcenet Upgrade (IPV6)												
B Kits												
Recurring												
1.1.1) LPD17 Forcenet Upgrade (IPV6) - NonOrganic	5 / 36.087	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 36.087
<b>Subtotal Recurring</b>	5 / 36.087	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 36.087
<b>Total, LT240 - LPD17 Forcenet Upgrade (IPV6)</b>	5 / 36.087	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 36.087
<b>Total Procurement, All Modifications</b>	5 / 36.087	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 36.087
<b>Total Procurement and Support</b>	36.087	-	-	-	-	-	-	-	-	-	-	36.087
LT240 - LPD17 Forcenet Upgrade (IPV6) Installation Cost	- / 15.116	- / 2.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.816
<b>Total Installation Cost</b>	- / 15.116	- / 2.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.816
<b>Total Cost (Procurement + Support + Installation)</b>	51.203	2.700	-	-	-	-	-	-	-	-	-	53.903

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - LT240 - LPD17 Forcenet Upgrade (IPV6)

<b>Models of Systems Affected:</b> LPD17 Forcenet Upgrade	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: LT240 - LPD17 Forcenet Upgrade (IPV6)**

Manufacturer Name: Manufacturer Name Not Provided.      Manufacturer Location: Manufacturer Location Not Provided.

Administrative Leadtime (*in Months*):      Production Leadtime (*in Months*):

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates							
Delivery Dates							

**Installation: LT240 - LPD17 Forcenet Upgrade (IPV6)**      **Method of Implementation: AIT**      **Installation Name: LPD17 Forcenet Upgrade (IPV6)**

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	4 / 15.116	1 / 2.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 17.816
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	4 / 15.116	1 / 2.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 17.816

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Out	3	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - LT306 - Automated Voltage Regulator (AVR)

**Models of Systems Affected:** Auto Voltage Regulator    **Type Modification:** [No Modification Type Specified]    **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	30.688	13.599	0.717	7.231	-	7.231	6.086	1.864	3.340	-	-	63.525
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	30.688	13.599	0.717	7.231	-	7.231	6.086	1.864	3.340	-	-	63.525
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>30.688</b>	<b>13.599</b>	<b>0.717</b>	<b>7.231</b>	<b>-</b>	<b>7.231</b>	<b>6.086</b>	<b>1.864</b>	<b>3.340</b>	<b>-</b>	<b>-</b>	<b>63.525</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

The CVN Automatic Voltage Regulator (AVR) 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.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - LT306 - Automated Voltage Regulator (AVR)

<b>Models of Systems Affected:</b> Auto Voltage Regulator	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
LT306 - Automated Voltage Regulator (AVR)												
B Kits												
Recurring												
1.1.1) AVR - NonOrganic <sup>(2)</sup>	37 / 15.700	12 / 6.360	- / -	4 / 2.565	- / -	4 / 2.565	8 / 5.400	- / -	- / -	- / -	- / -	61 / 30.025
1.1.2) Field Engineering Services - NonOrganic	- / 0.817	- / 0.300	- / -	- / 0.300	- / -	- / 0.300	- / 0.300	- / -	- / -	- / -	- / -	- / 1.717
<i>Subtotal Recurring</i>	37 / 16.517	12 / 6.660	- / -	4 / 2.865	- / -	4 / 2.865	8 / 5.700	- / -	- / -	- / -	- / -	61 / 31.742
<i>Total, LT306 - Automated Voltage Regulator (AVR)</i>	37 / 16.517	12 / 6.660	- / -	4 / 2.865	- / -	4 / 2.865	8 / 5.700	- / -	- / -	- / -	- / -	61 / 31.742
<b>Total Procurement, All Modifications</b>	37 / 16.517	12 / 6.660	- / -	4 / 2.865	- / -	4 / 2.865	8 / 5.700	- / -	- / -	- / -	- / -	61 / 31.742
<b>Total Procurement and Support</b>	16.517	6.660	-	2.865	-	2.865	5.700	-	-	-	-	31.742
LT306 - Automated Voltage Regulator (AVR) Installation Cost	- / 14.171	- / 6.939	- / 0.717	- / 4.366	- / -	- / 4.366	- / 0.386	- / 1.864	- / 3.340	- / -	- / -	- / 31.783
<b>Total Installation Cost</b>	- / 14.171	- / 6.939	- / 0.717	- / 4.366	- / -	- / 4.366	- / 0.386	- / 1.864	- / 3.340	- / -	- / -	- / 31.783
<b>Total Cost (Procurement + Support + Installation)</b>	30.688	13.599	0.717	7.231	-	7.231	6.086	1.864	3.340	-	-	63.525

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - LT306 - Automated Voltage Regulator (AVR)

<b>Models of Systems Affected:</b> Auto Voltage Regulator	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information:</b> LT306 - Automated Voltage Regulator (AVR)	
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Manufacturer Name: NG P/CS	Manufacturer Location: MD
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Administrative Leadtime ( <i>in Months</i> ): 2	Production Leadtime ( <i>in Months</i> ): 21
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Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Oct 2012		Apr 2014				
Delivery Dates	Apr 2014		Jan 2016				

<b>Installation:</b> LT306 - Automated Voltage Regulator (AVR)	<b>Method of Implementation:</b> SHIPYARD	<b>Installation Name:</b> AVR
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	21 / 14.171	16 / 6.939	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	37 / 21.110
FY 2012	- / -	- / -	- / 0.717	12 / 4.366	- / -	12 / 4.366	- / -	- / -	- / -	- / -	- / -	12 / 5.083
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.386	4 / 1.479	- / -	- / -	- / -	4 / 1.865
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.385	8 / 3.340	- / -	- / -	8 / 3.725
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	21 / 14.171	16 / 6.939	- / 0.717	12 / 4.366	- / -	12 / 4.366	- / 0.386	4 / 1.864	8 / 3.340	- / -	- / -	61 / 31.783

Installation Schedule																											
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	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot							
		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	-	8	-	8	-	-	-	-	-	-	-	4	8	-	-	-	-	-	-	4	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	61
Out	17	4	-	-	-	-	16	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-	4	-	-	-	8	-	-	-	-	-	-	-	-	-	61

**Footnotes:**  
<sup>(2)</sup> Contracts for AVR procurements are targeted for April of each year to provide maximum cost efficiency for the Government. For the FY12 AVR procurement, the contract option for 12 units was planned for award in August 2012. Actual award was October 2012. Normal procurement lead time is 21 months. For the Oct 12 procurement, delivery will be incremented to support the scheduled FY14 avails - 4 units in April 2014, 4 units in July 2014 and 4 units in Sept 2014. For the FY14 AVR procurement, the contract option for 4 units is planned for award in April 2014. With a procurement lead time of 21 months, the delivery of the 4 units of the FY14 procurement is Jan 2016. This will meet the in yard need date of these 4 units.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 5 - LT307 - Carrier Canned Lube Oil Pump

<b>Models of Systems Affected:</b> Carrier Canned Lube Oil Pump	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	3.100	1.695	7.139	7.228	-	7.228	3.276	-	-	-	-	22.438
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	3.100	1.695	7.139	7.228	-	7.228	3.276	-	-	-	-	22.438
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>3.100</b>	<b>1.695</b>	<b>7.139</b>	<b>7.228</b>	<b>-</b>	<b>7.228</b>	<b>3.276</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>22.438</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 5 - LT307 - Carrier Canned Lube Oil Pump

<b>Models of Systems Affected:</b> Carrier Canned Lube Oil Pump	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
LT307 - Carrier Canned Lube Oil Pump												
B Kits												
Recurring												
1.1.1) Canned Lube Oil Pump - NonOrganic	8 / 2.800	- / -	8 / 2.200	8 / 2.200	- / -	8 / 2.200	- / -	- / -	- / -	- / -	- / -	24 / 7.200
<i>Subtotal Recurring</i>	8 / 2.800	- / -	8 / 2.200	8 / 2.200	- / -	8 / 2.200	- / -	- / -	- / -	- / -	- / -	24 / 7.200
<i>Total, LT307 - Carrier Canned Lube Oil Pump</i>	8 / 2.800	- / -	8 / 2.200	8 / 2.200	- / -	8 / 2.200	- / -	- / -	- / -	- / -	- / -	24 / 7.200
<i>Total Procurement, All Modifications</i>	8 / 2.800	- / -	8 / 2.200	8 / 2.200	- / -	8 / 2.200	- / -	- / -	- / -	- / -	- / -	24 / 7.200
<b>Total Procurement and Support</b>	2.800	-	2.200	2.200	-	2.200	-	-	-	-	-	7.200
LT307 - Carrier Canned Lube Oil Pump Installation Cost	- / 0.300	- / 1.695	- / 4.939	- / 5.028	- / -	- / 5.028	- / 3.276	- / -	- / -	- / -	- / -	- / 15.238
<i>Total Installation Cost</i>	- / 0.300	- / 1.695	- / 4.939	- / 5.028	- / -	- / 5.028	- / 3.276	- / -	- / -	- / -	- / -	- / 15.238
<b>Total Cost (Procurement + Support + Installation)</b>	<b>3.100</b>	<b>1.695</b>	<b>7.139</b>	<b>7.228</b>	<b>-</b>	<b>7.228</b>	<b>3.276</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>22.438</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 5 - LT307 - Carrier Canned Lube Oil Pump

<b>Models of Systems Affected:</b> Carrier Canned Lube Oil Pump	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: LT307 - Carrier Canned Lube Oil Pump**

Manufacturer Name: IMO Pumps	Manufacturer Location: Monroe, NC
Administrative Leadtime ( <i>in Months</i> ): 2	Production Leadtime ( <i>in Months</i> ): 10

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates		Mar 2013	Dec 2013				
Delivery Dates		Jan 2014	Oct 2014				

**Installation: LT307 - Carrier Canned Lube Oil Pump**      **Method of Implementation:** Shipyard      **Installation Name:** Canned Lube Oil Pump

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	0 / 0.300	0 / 1.695	8 / 3.224	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 5.219
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / 1.715	8 / 3.267	- / -	8 / 3.267	- / -	- / -	- / -	- / -	- / -	8 / 4.982
FY 2014	- / -	- / -	- / -	- / 1.761	- / -	- / 1.761	8 / 3.276	- / -	- / -	- / -	- / -	8 / 5.037
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	0 / 0.300	- / 1.695	8 / 4.939	8 / 5.028	- / -	8 / 5.028	8 / 3.276	- / -	- / -	- / -	- / -	24 / 15.238

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot		
		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	-	-	-	-	-	-	-	8	-	-	8	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24
Out	-	-	-	-	-	-	-	-	-	-	8	8	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 6 - LT308 - LHD Midlife, LHA Midlife/ Sustainability

<b>Models of Systems Affected:</b> Boat (RIB) Davits	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	15.025	-	-	2.727	-	2.727	9.014	8.665	-	-	-	35.431
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	15.025	-	-	2.727	-	2.727	9.014	8.665	-	-	-	35.431
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>15.025</b>	-	-	<b>2.727</b>	-	<b>2.727</b>	<b>9.014</b>	<b>8.665</b>	-	-	-	<b>35.431</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

This shipalt installs Boat (RIB) Davits replacing Land Craft Personnel (LCPL) Davits on the LHA/LHD Class Ships.

[Boat (RIB) Davits]

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 6 - LT308 - LHD Midlife, LHA Midlife/ Sustainability

<b>Models of Systems Affected:</b> Boat (RIB) Davits	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
LT308 - LHD Midlife, LHA Midlife/Sustainability												
B Kits												
Recurring												
1.1.1) Boat (RIB) Davits - NonOrganic <sup>(3)</sup>	9 / 7.725	- / -	- / -	- / -	- / -	- / -	1 / 3.395	- / -	- / -	- / -	- / -	10 / 11.120
<b>Subtotal Recurring</b>	9 / 7.725	- / -	- / -	- / -	- / -	- / -	1 / 3.395	- / -	- / -	- / -	- / -	10 / 11.120
<b>Total, LT308 - LHD Midlife, LHA Midlife/Sustainability</b>	9 / 7.725	- / -	- / -	- / -	- / -	- / -	1 / 3.395	- / -	- / -	- / -	- / -	10 / 11.120
<b>Total Procurement, All Modifications</b>	9 / 7.725	- / -	- / -	- / -	- / -	- / -	1 / 3.395	- / -	- / -	- / -	- / -	10 / 11.120
<b>Total Procurement and Support</b>	7.725	-	-	-	-	-	3.395	-	-	-	-	11.120
LT308 - LHD Midlife, LHA Midlife/Sustainability Installation Cost	- / 7.300	- / -	- / -	- / 2.727	- / -	- / 2.727	- / 5.619	- / 8.665	- / -	- / -	- / -	- / 24.311
<b>Total Installation Cost</b>	- / 7.300	- / -	- / -	- / 2.727	- / -	- / 2.727	- / 5.619	- / 8.665	- / -	- / -	- / -	- / 24.311
<b>Total Cost (Procurement + Support + Installation)</b>	15.025	-	-	2.727	-	2.727	9.014	8.665	-	-	-	35.431

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 6 - LT308 - LHD Midlife, LHA Midlife/ Sustainability

<b>Models of Systems Affected:</b> Boat (RIB) Davits	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information:** LT308 - LHD Midlife, LHA Midlife/Sustainability

Manufacturer Name: Welinlamvie	Manufacturer Location: England
Administrative Leadtime ( <i>in Months</i> ): 3	Production Leadtime ( <i>in Months</i> ): 11

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates							
Delivery Dates							

**Installation:** LT308 - LHD Midlife, LHA Midlife/Sustainability      **Method of Implementation:** AIT      **Installation Name:** Boat (RIB) Davits

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	4 / 7.300	- / -	- / -	1 / 2.727	0 / 0.000	1 / 2.727	2 / 5.619	2 / 5.777	- / -	- / -	- / -	9 / 21.423
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.888	- / -	- / -	- / -	1 / 2.888
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	4 / 7.300	- / -	- / -	1 / 2.727	- / -	1 / 2.727	2 / 5.619	3 / 8.665	- / -	- / -	- / -	10 / 24.311

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot	
		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	-	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-	10
Out	4	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-	2	-	1	-	-	-	-	-	-	-	-	-	10

**Footnotes:**  
(3) Reduction of one procurement due to ship decommissioning

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 7 - LT309 - Solid-State Lighting (SSL)

<b>Models of Systems Affected:</b> Solid State Lighting			<b>Type Modification:</b> [No Modification Type Specified]				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	5.168	6.253	6.564	-	6.564	6.602	6.379	7.260	7.361	-	45.587
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	5.168	6.253	6.564	-	6.564	6.602	6.379	7.260	7.361	-	45.587
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>5.168</b>	<b>6.253</b>	<b>6.564</b>	<b>-</b>	<b>6.564</b>	<b>6.602</b>	<b>6.379</b>	<b>7.260</b>	<b>7.361</b>	<b>-</b>	<b>45.587</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Procure/Install solid state lighting fixtures to replace fluorescent and incandescent lighting fixtures installed on Surface combatants and Amphibious Class ships

[Solid State Lighting]

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 7 - LT309 - Solid-State Lighting (SSL)

<b>Models of Systems Affected:</b> Solid State Lighting	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
LT309 - Solid-State Lighting (SSL)												
B Kits												
Recurring												
1.1.1) Solid State Lighting - NonOrganic	- / -	6 / 2.634	7 / 3.255	7 / 3.670	- / -	7 / 3.670	7 / 3.733	7 / 3.606	7 / 3.839	8 / 3.583	- / -	49 / 24.320
<b>Subtotal Recurring</b>	- / -	6 / 2.634	7 / 3.255	7 / 3.670	- / -	7 / 3.670	7 / 3.733	7 / 3.606	7 / 3.839	8 / 3.583	- / -	49 / 24.320
<b>Total, LT309 - Solid-State Lighting (SSL)</b>	- / -	6 / 2.634	7 / 3.255	7 / 3.670	- / -	7 / 3.670	7 / 3.733	7 / 3.606	7 / 3.839	8 / 3.583	- / -	49 / 24.320
<b>Total Procurement, All Modifications</b>	- / -	6 / 2.634	7 / 3.255	7 / 3.670	- / -	7 / 3.670	7 / 3.733	7 / 3.606	7 / 3.839	8 / 3.583	- / -	49 / 24.320
<b>Total Procurement and Support</b>	-	2.634	3.255	3.670	-	3.670	3.733	3.606	3.839	3.583	-	24.320
LT309 - Solid-State Lighting (SSL) Installation Cost	- / 0.000	- / 2.534	- / 2.998	- / 2.894	- / -	- / 2.894	- / 2.869	- / 2.773	- / 3.421	- / 3.778	- / -	- / 21.267
<b>Total Installation Cost</b>	- / 0.000	- / 2.534	- / 2.998	- / 2.894	- / -	- / 2.894	- / 2.869	- / 2.773	- / 3.421	- / 3.778	- / -	- / 21.267
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	<b>5.168</b>	<b>6.253</b>	<b>6.564</b>	<b>-</b>	<b>6.564</b>	<b>6.602</b>	<b>6.379</b>	<b>7.260</b>	<b>7.361</b>	<b>-</b>	<b>45.587</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 7 - LT309 - Solid-State Lighting (SSL)

<b>Models of Systems Affected:</b> Solid State Lighting	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information:</b> LT309 - Solid-State Lighting (SSL)	
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Manufacturer Name: Energy Focus Inc	Manufacturer Location: Solon, OH
Administrative Leadtime ( <i>in Months</i> ): 3	Production Leadtime ( <i>in Months</i> ): 6

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Apr 2012	Dec 2012	Dec 2013				
Delivery Dates	Oct 2012	Jun 2013	Jun 2014				

<b>Installation:</b> LT309 - Solid-State Lighting (SSL)	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> Solid State Lighting
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / 2.534	6 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.534
FY 2013	- / -	- / -	7 / 2.998	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 2.998
FY 2014	- / -	- / -	- / -	7 / 2.894	- / -	7 / 2.894	- / -	- / -	- / -	- / -	- / -	7 / 2.894
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	7 / 2.869	- / -	- / -	- / -	- / -	7 / 2.869
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 2.773	- / -	- / -	- / -	7 / 2.773
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 3.421	- / -	- / -	7 / 3.421
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 3.778	- / -	8 / 3.778
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / 2.534	13 / 2.998	7 / 2.894	- / -	7 / 2.894	7 / 2.869	7 / 2.773	7 / 3.421	8 / 3.778	- / -	49 / 21.267

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	-	-	-	-	6	-	7	-	-	-	7	-	-	-	7	-	-	-	7	-	-	-	7	-	-	-	8	-	-	49
Out	-	-	-	-	-	-	6	-	7	-	-	-	7	-	-	-	7	-	-	-	7	-	-	-	7	-	-	-	8	-	49

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 8 - LT312 - T-AGS AUV Support System

<b>Models of Systems Affected:</b> T-AGS AUV Support System	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	1.538	1.721	-	-	-	-	-	-	-	-	3.259
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	1.538	1.721	-	-	-	-	-	-	-	-	3.259
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>1.538</b>	<b>1.721</b>	-	-	-	-	-	-	-	-	<b>3.259</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

[AUV Support System]

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment		<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million
<b>Models of Systems Affected:</b> T-AGS AUV Support System		<b>Modification Nomenclature (Modification Number - Modification Title):</b> 8 - LT312 - T-AGS AUV Support System
<b>Type Modification:</b> [No Modification Type Specified]		<b>Related RDT&amp;E PEs:</b>

Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
LT312 - T-AGS AUV Support System												
B Kits												
Recurring												
1.1.1) AUV Support System - NonOrganic	- / -	1 / 1.538	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.538
<b>Subtotal Recurring</b>	- / -	1 / 1.538	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.538
<b>Total, LT312 - T-AGS AUV Support System</b>	- / -	1 / 1.538	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.538
<b>Total Procurement, All Modifications</b>	- / -	1 / 1.538	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.538
<b>Total Procurement and Support</b>	-	1.538	-	-	-	-	-	-	-	-	-	1.538
LT312 - T-AGS AUV Support System Installation Cost	- / 0.000	- / -	- / 1.721	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.721
<b>Total Installation Cost</b>	- / 0.000	- / -	- / 1.721	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.721
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	<b>1.538</b>	<b>1.721</b>	-	-	-	-	-	-	-	-	<b>3.259</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 8 - LT312 - T-AGS AUV Support System

<b>Models of Systems Affected:</b> T-AGS AUV Support System	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: LT312 - T-AGS AUV Support System**

Manufacturer Name: VARIOUS	Manufacturer Location: VARIOUS
Administrative Leadtime ( <i>in Months</i> ): 3	Production Leadtime ( <i>in Months</i> ): 15

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Aug 2012						
Delivery Dates	Nov 2013						

**Installation: LT312 - T-AGS AUV Support System**      **Method of Implementation: AIT**      **Installation Name: AUV Support System**

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	1 / 1.721	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.721
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	1 / 1.721	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.721

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot			
		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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 9 - LT312 - T-AGS Mission Equipment Moving Vessel Profiler (MVP)

<b>Models of Systems Affected:</b> TAG-S MVP	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	0.762	0.100	-	-	-	-	-	-	-	-	0.862
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	0.762	0.100	-	-	-	-	-	-	-	-	0.862
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>0.762</b>	<b>0.100</b>	-	-	-	-	-	-	-	-	<b>0.862</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

[T-AGS MVP]

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 9 - LT312 - T-AGS Mission Equipment Moving Vessel Profiler (MVP)

<b>Models of Systems Affected:</b> TAG-S MVP	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
LT312 - T-AGS Mission Equipment Moving Vessel Profiler (MVP)												
B Kits												
Recurring												
1.1.1) T-AGS MVP - NonOrganic	- / -	1 / 0.762	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.762
<i>Subtotal Recurring</i>	- / -	1 / 0.762	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.762
<i>Total, LT312 - T-AGS Mission Equipment Moving Vessel Profiler (MVP)</i>	- / -	1 / 0.762	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.762
<b>Total Procurement, All Modifications</b>	- / -	1 / 0.762	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.762
<b>Total Procurement and Support</b>	-	0.762	-	-	-	-	-	-	-	-	-	0.762
LT312 - T-AGS Mission Equipment Moving Vessel Profiler (MVP) Installation Cost	- / 0.000	- / -	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.100
<b>Total Installation Cost</b>	- / 0.000	- / -	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.100
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	<b>0.762</b>	<b>0.100</b>	-	-	-	-	-	-	-	-	<b>0.862</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 9 - LT312 - T-AGS Mission Equipment Moving Vessel Profiler (MVP)

<b>Models of Systems Affected:</b> TAG-S MVP	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information:** LT312 - T-AGS Mission Equipment Moving Vessel Profiler (MVP)

Manufacturer Name: Rolls Royce	Manufacturer Location: Marine Canada
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Administrative Leadtime ( <i>in Months</i> ): 3	Production Leadtime ( <i>in Months</i> ): 15
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Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Aug 2012						
Delivery Dates	Nov 2013						

<b>Installation:</b> LT312 - T-AGS Mission Equipment Moving Vessel Profiler (MVP)	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> T-AGS MVP
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	1 / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.100
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	1 / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.100

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot		
		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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 10 - LT312 - T-AGS Side Scan Sonar (SSS)

<b>Models of Systems Affected:</b> T-AGS Side Scan Sonar (SSS)	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	0.650	0.075	-	-	-	-	-	-	-	-	0.725
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	0.650	0.075	-	-	-	-	-	-	-	-	0.725
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>0.650</b>	<b>0.075</b>	-	-	-	-	-	-	-	-	<b>0.725</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

[Side Scan Sonar (SSS)]

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 10 - LT312 - T-AGS Side Scan Sonar (SSS)

<b>Models of Systems Affected:</b> T-AGS Side Scan Sonar (SSS)	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
LT312 - T-AGS Side Scan Sonar (SSS)												
B Kits												
Recurring												
1.1.1) Side Scan Sonar (SSS) - NonOrganic	- / -	1 / 0.650	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.650
<i>Subtotal Recurring</i>	- / -	1 / 0.650	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.650
<i>Total, LT312 - T-AGS Side Scan Sonar (SSS)</i>	- / -	1 / 0.650	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.650
<i>Total Procurement, All Modifications</i>	- / -	1 / 0.650	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.650
<b>Total Procurement and Support</b>	-	0.650	-	-	-	-	-	-	-	-	-	0.650
LT312 - T-AGS Side Scan Sonar (SSS) Installation Cost	- / 0.000	- / -	- / 0.075	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.075
<b>Total Installation Cost</b>	- / 0.000	- / -	- / 0.075	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.075
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	<b>0.650</b>	<b>0.075</b>	-	-	-	-	-	-	-	-	<b>0.725</b>



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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> <i>(Modification Number - Modification Title):</i> 11 - LT313 - AS-39 Modernization Electrical Upgrade

<b>Models of Systems Affected:</b> AS 39 Electrical Upgrade	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	4.076	1.733	0.450	-	-	-	-	-	-	-	-	6.259
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	4.076	1.733	0.450	-	-	-	-	-	-	-	-	6.259
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>4.076</b>	<b>1.733</b>	<b>0.450</b>	-	-	-	-	-	-	-	-	<b>6.259</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(Units in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

[AS-39 Electrical Upgrades]

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 11 - LT313 - AS-39 Modernization Electrical Upgrade

<b>Models of Systems Affected:</b> AS 39 Electrical Upgrade	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
LT313 - AS-39 Modernization Electrical Upgrade												
B Kits												
Recurring												
1.1.1) AS-39 Electrical Upgrades - NonOrganic	2 / 2.922	1 / 0.481	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 3.403
<i>Subtotal Recurring</i>	2 / 2.922	1 / 0.481	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 3.403
<i>Total, LT313 - AS-39 Modernization Electrical Upgrade</i>	2 / 2.922	1 / 0.481	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 3.403
<i>Total Procurement, All Modifications</i>	2 / 2.922	1 / 0.481	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 3.403
<b>Total Procurement and Support</b>	2.922	0.481	-	-	-	-	-	-	-	-	-	3.403
LT313 - AS-39 Modernization Electrical Upgrade Installation Cost	- / 1.154	- / 1.252	- / 0.450	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.856
<i>Total Installation Cost</i>	- / 1.154	- / 1.252	- / 0.450	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.856
<b>Total Cost (Procurement + Support + Installation)</b>	<b>4.076</b>	<b>1.733</b>	<b>0.450</b>	-	-	-	-	-	-	-	-	<b>6.259</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 11 - LT313 - AS-39 Modernization Electrical Upgrade

<b>Models of Systems Affected:</b> AS 39 Electrical Upgrade	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: LT313 - AS-39 Modernization Electrical Upgrade**

Manufacturer Name: General Dynamics				Manufacturer Location: PA			
Administrative Leadtime ( <i>in Months</i> ): 4				Production Leadtime ( <i>in Months</i> ): 7			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates	Jun 2012						
Delivery Dates	Jan 2013						

**Installation: LT313 - AS-39 Modernization Electrical Upgrade**      **Method of Implementation:** Shipyard      **Installation Name:** AS-39 Electrical Upgrades

<b>Installation Cost</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO</b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	1 / 1.154	1 / 1.252	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.406
FY 2012	- / -	- / -	1 / 0.450	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.450
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	1 / 1.154	1 / 1.252	1 / 0.450	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 2.856

**Installation Schedule**

	<b>APY</b>	<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>TC</b>	<b>Tot</b>
		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>																										
In	1	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3		
Out	1	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3		

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 12 - LT313 - AS-39 Modernization Main Propulsion

<b>Models of Systems Affected:</b> AS-39 Modernization Main Propulsion	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	15.658	2.082	-	-	-	-	-	-	-	-	-	17.740
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	15.658	2.082	-	-	-	-	-	-	-	-	-	17.740
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>15.658</b>	<b>2.082</b>	-	-	-	-	-	-	-	-	-	<b>17.740</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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)

[AS-39 Modernization Main Propulsion]

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 12 - LT313 - AS-39 Modernization Main Propulsion

<b>Models of Systems Affected:</b> AS-39 Modernization Main Propulsion	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
LT313 - AS-39 Modernization Main Propulsion												
B Kits												
Recurring												
1.1.1) AS-39 Modernization Main Propulsion - NonOrganic	3 / 7.404	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 7.404
<i>Subtotal Recurring</i>	3 / 7.404	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 7.404
<i>Total, LT313 - AS-39 Modernization Main Propulsion</i>	3 / 7.404	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 7.404
<i>Total Procurement, All Modifications</i>	3 / 7.404	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 7.404
<i>Total Procurement and Support</i>	7.404	-	-	-	-	-	-	-	-	-	-	7.404
LT313 - AS-39 Modernization Main Propulsion Installation Cost	- / 8.254	- / 2.082	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.336
<i>Total Installation Cost</i>	- / 8.254	- / 2.082	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.336
<b>Total Cost (Procurement + Support + Installation)</b>	<b>15.658</b>	<b>2.082</b>	-	-	-	-	-	-	-	-	-	<b>17.740</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 12 - LT313 - AS-39 Modernization Main Propulsion

<b>Models of Systems Affected:</b> AS-39 Modernization Main Propulsion	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information: LT313 - AS-39 Modernization Main Propulsion</b>							
Manufacturer Name: Manufacturer Name Not Provided.				Manufacturer Location: Manufacturer Location Not Provided.			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates							
Delivery Dates							

<b>Installation:</b> LT313 - AS-39 Modernization Main Propulsion			<b>Method of Implementation:</b> Shipyard					<b>Installation Name:</b> AS-39 Modernization Main Propulsion				
<b>Installation Cost</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO</b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
All Prior Years	2 / 8.254	1 / 2.082	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 10.336
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	2 / 8.254	1 / 2.082	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 10.336

<b>Installation Schedule</b>																															
	<b>APY</b>	<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>TC</b>	<b>Tot</b>
		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>																										
In	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Out	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 13 - LT313 - AS-39 Modernization Replace Traveling Cranes

<b>Models of Systems Affected:</b> AS-39 Modernization Replace Traveling Cranes	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	3.321	0.500	1.182	-	-	-	-	-	-	-	-	5.003
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	3.321	0.500	1.182	-	-	-	-	-	-	-	-	5.003
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>3.321</b>	<b>0.500</b>	<b>1.182</b>	-	-	-	-	-	-	-	-	<b>5.003</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

[Replace Traveling Cranes]

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 13 - LT313 - AS-39 Modernization Replace Traveling Cranes

<b>Models of Systems Affected:</b> AS-39 Modernization Replace Traveling Cranes	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
LT313 - AS-39 Modernization Replace Traveling Cranes												
B Kits												
Recurring												
1.1.1) Replace Traveling Cranes - NonOrganic	1 / 2.982	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.982
<i>Subtotal Recurring</i>	1 / 2.982	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.982
<i>Total, LT313 - AS-39 Modernization Replace Traveling Cranes</i>	1 / 2.982	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.982
<b>Total Procurement, All Modifications</b>	1 / 2.982	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.982
<b>Total Procurement and Support</b>	2.982	-	-	-	-	-	-	-	-	-	-	2.982
LT313 - AS-39 Modernization Replace Traveling Cranes Installation Cost	- / 0.339	- / 0.500	- / 1.182	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.021
<b>Total Installation Cost</b>	- / 0.339	- / 0.500	- / 1.182	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.021
<b>Total Cost (Procurement + Support + Installation)</b>	3.321	0.500	1.182	-	-	-	-	-	-	-	-	5.003



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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 14 - LT314 - Carrier Oil Water Separator

<b>Models of Systems Affected:</b> Carrier Oil Water Separator	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	-	1.745	-	1.745	4.733	6.076	8.956	7.978	2.900	32.388
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	-	1.745	-	1.745	4.733	6.076	8.956	7.978	2.900	32.388
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>0.000</b>	-	-	<b>1.745</b>	-	<b>1.745</b>	<b>4.733</b>	<b>6.076</b>	<b>8.956</b>	<b>7.978</b>	<b>2.900</b>	<b>32.388</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

The Oil Water Separator (OWS) will be installed on the CVN 68 Class to meet the new environmental discharge law of 15 parts per million (ppm) worldwide. The current OWSs installed on CVN 68 Class experience a high degree of costly maintenance and reliability issues and they do not meet the 15 ppm requirement.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 14 - LT314 - Carrier Oil Water Separator

<b>Models of Systems Affected:</b> Carrier Oil Water Separator	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
LT314 - Carrier Oil Water Separator												
B Kits												
Recurring												
1.1.1) Oil Water Separator - NonOrganic <sup>(4)</sup>	- / -	- / -	- / -	2 / 1.156	- / -	2 / 1.156	2 / 1.160	4 / 2.420	2 / 2.417	2 / 1.230	- / -	12 / 8.383
<i>Subtotal Recurring</i>	- / -	- / -	- / -	2 / 1.156	- / -	2 / 1.156	2 / 1.160	4 / 2.420	2 / 2.417	2 / 1.230	- / -	12 / 8.383
<i>Total, LT314 - Carrier Oil Water Separator</i>	- / -	- / -	- / -	2 / 1.156	- / -	2 / 1.156	2 / 1.160	4 / 2.420	2 / 2.417	2 / 1.230	- / -	12 / 8.383
<b>Total Procurement, All Modifications</b>	- / -	- / -	- / -	2 / 1.156	- / -	2 / 1.156	2 / 1.160	4 / 2.420	2 / 2.417	2 / 1.230	- / -	12 / 8.383
<b>Total Procurement and Support</b>	-	-	-	1.156	-	1.156	1.160	2.420	2.417	1.230	-	8.383
LT314 - Carrier Oil Water Separator Installation Cost	- / 0.000	- / -	- / -	- / 0.589	- / -	- / 0.589	- / 3.573	- / 3.656	- / 6.539	- / 6.748	- / 2.900	- / 24.005
<b>Total Installation Cost</b>	- / 0.000	- / -	- / -	- / 0.589	- / -	- / 0.589	- / 3.573	- / 3.656	- / 6.539	- / 6.748	- / 2.900	- / 24.005
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	-	-	<b>1.745</b>	-	<b>1.745</b>	<b>4.733</b>	<b>6.076</b>	<b>8.956</b>	<b>7.978</b>	<b>2.900</b>	<b>32.388</b>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 14 - LT314 - Carrier Oil Water Separator

<b>Models of Systems Affected:</b> Carrier Oil Water Separator	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: LT314 - Carrier Oil Water Separator**

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime ( <i>in Months</i> ): 2	Production Leadtime ( <i>in Months</i> ): 12

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates			Mar 2014				
Delivery Dates			Mar 2015				

**Installation: LT314 - Carrier Oil Water Separator**      **Method of Implementation: AIT**      **Installation Name: Oil Water Separator**

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / 0.589	- / -	- / 0.589	2 / 3.129	- / -	- / -	- / -	- / -	2 / 3.718
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.444	2 / 2.678	- / -	- / -	- / -	2 / 3.122
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.978	4 / 5.997	- / -	- / -	4 / 6.975
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.542	2 / 6.098	- / -	2 / 6.640
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.650	2 / 2.900	2 / 3.550
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / 0.589	- / -	- / 0.589	2 / 3.573	2 / 3.656	4 / 6.539	2 / 6.748	2 / 2.900	12 / 24.005

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	-	-	2	-	-	2	2	-	-	-	2	-	2	12	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2	-	-	2	-	-	2	-	2	-	4	12

**Footnotes:**  
<sup>(4)</sup> In FY17, the procurement unit cost is double of the other hulls due to the unique configuration of CVN 69. CVN 69 is the only hull which presently has the High Capacity Oil Water Separator and requires more extensive modification than the other hulls to meet the 15 PPM discharge requirement.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 15 - LT315 - LCC20 Electrical Improvements.

<b>Models of Systems Affected:</b> LCC20 Electrical Improvement	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	2.506	2.980	-	2.980	-	-	-	-	-	5.486
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	2.506	2.980	-	2.980	-	-	-	-	-	5.486
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	-	<b>2.506</b>	<b>2.980</b>	-	<b>2.980</b>	-	-	-	-	-	<b>5.486</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Procurement and installation of upgrade to USS MOUNT WHITNEY (LCC 20) Electrical Distribution System in support of the Extended Service Life Program. Procures and installs electrical switchboard upgrades.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 15 - LT315 - LCC20 Electrical Improvements.

<b>Models of Systems Affected:</b> LCC20 Electrical Improvement	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
LT315 - LCC20 Electrical Improvements.												
B Kits												
Recurring												
1.1.1) LCC20 Electrical Improvement - NonOrganic <sup>(5)</sup>	- / -	- / -	1 / 2.506	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.506
<i>Subtotal Recurring</i>	- / -	- / -	1 / 2.506	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.506
<i>Total, LT315 - LCC20 Electrical Improvements.</i>	- / -	- / -	1 / 2.506	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.506
<b>Total Procurement, All Modifications</b>	- / -	- / -	1 / 2.506	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.506
<b>Total Procurement and Support</b>	-	-	2.506	-	-	-	-	-	-	-	-	2.506
LT315 - LCC20 Electrical Improvements. Installation Cost	- / 0.000	- / -	- / -	- / 2.980	- / -	- / 2.980	- / -	- / -	- / -	- / -	- / -	- / 2.980
<b>Total Installation Cost</b>	- / 0.000	- / -	- / -	- / 2.980	- / -	- / 2.980	- / -	- / -	- / -	- / -	- / -	- / 2.980
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	-	<b>2.506</b>	<b>2.980</b>	-	<b>2.980</b>	-	-	-	-	-	<b>5.486</b>



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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> <i>(Modification Number - Modification Title):</i> 15 - LT315 - LCC20 Electrical Improvements.
<b>Models of Systems Affected:</b> LCC20 Electrical Improvement	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>

<sup>(6)</sup> For EDGs. Currently conducting source selection. Approximate 5 month land based government testing post delivery.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 16 - LT316 - Patrol Coastal ECDIS

<b>Models of Systems Affected:</b> PC ECDIS	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1.600	1.295	0.610	1.270	-	1.270	2.390	1.750	-	-	-	8.915
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	1.600	1.295	0.610	1.270	-	1.270	2.390	1.750	-	-	-	8.915
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>1.600</b>	<b>1.295</b>	<b>0.610</b>	<b>1.270</b>	<b>-</b>	<b>1.270</b>	<b>2.390</b>	<b>1.750</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>8.915</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

[ECDIS-N]

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 16 - LT316 - Patrol Coastal ECDIS

<b>Models of Systems Affected:</b> PC ECDIS	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
LT316 - Patrol Coastal ECDIS												
B Kits												
Recurring												
1.1.1) ECDIS-N - NonOrganic	1 / 0.900	2 / 0.660	1 / 0.330	3 / 0.990	- / -	3 / 0.990	3 / 0.990	3 / 0.990	- / -	- / -	- / -	13 / 4.860
<i>Subtotal Recurring</i>	1 / 0.900	2 / 0.660	1 / 0.330	3 / 0.990	- / -	3 / 0.990	3 / 0.990	3 / 0.990	- / -	- / -	- / -	13 / 4.860
<i>Total, LT316 - Patrol Coastal ECDIS</i>	1 / 0.900	2 / 0.660	1 / 0.330	3 / 0.990	- / -	3 / 0.990	3 / 0.990	3 / 0.990	- / -	- / -	- / -	13 / 4.860
<i>Total Procurement, All Modifications</i>	1 / 0.900	2 / 0.660	1 / 0.330	3 / 0.990	- / -	3 / 0.990	3 / 0.990	3 / 0.990	- / -	- / -	- / -	13 / 4.860
<i>Total Procurement and Support</i>	0.900	0.660	0.330	0.990	-	0.990	0.990	0.990	-	-	-	4.860
LT316 - Patrol Coastal ECDIS Installation Cost	- / 0.700	- / 0.635	- / 0.280	- / 0.280	- / -	- / 0.280	- / 1.400	- / 0.760	- / -	- / -	- / -	- / 4.055
<i>Total Installation Cost</i>	- / 0.700	- / 0.635	- / 0.280	- / 0.280	- / -	- / 0.280	- / 1.400	- / 0.760	- / -	- / -	- / -	- / 4.055
<b>Total Cost (Procurement + Support + Installation)</b>	<b>1.600</b>	<b>1.295</b>	<b>0.610</b>	<b>1.270</b>	<b>-</b>	<b>1.270</b>	<b>2.390</b>	<b>1.750</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>8.915</b>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 16 - LT316 - Patrol Coastal ECDIS

<b>Models of Systems Affected:</b> PC ECDIS	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information:</b> LT316 - Patrol Coastal ECDIS	
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Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime ( <i>in Months</i> ): 3	Production Leadtime ( <i>in Months</i> ): 6

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Oct 2012	Apr 2013	Apr 2014				
Delivery Dates	Apr 2013	Oct 2013	Oct 2014				

<b>Installation:</b> LT316 - Patrol Coastal ECDIS	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> ECDIS-N
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	0 / 0.700	1 / 0.317	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.017
FY 2012	- / -	1 / 0.318	1 / 0.280	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.598
FY 2013	- / -	- / -	- / -	1 / 0.280	- / -	1 / 0.280	- / -	- / -	- / -	- / -	- / -	1 / 0.280
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.840	- / -	- / -	- / -	- / -	3 / 0.840
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.560	1 / 0.190	- / -	- / -	- / -	3 / 0.750
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.570	- / -	- / -	- / -	3 / 0.570
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.700	2 / 0.635	1 / 0.280	1 / 0.280	- / -	1 / 0.280	5 / 1.400	4 / 0.760	- / -	- / -	- / -	13 / 4.055

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	2	-	1	-	-	-	3	-	2	-	1	-	3	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	1	-	2	-	1	-	-	-	3	-	2	-	1	-	3	-	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 17 - LT316 - Patrol Coastal HVAC Upgrade

**Models of Systems Affected:** PC HVAC Upgrade      **Type Modification:** [No Modification Type Specified]      **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	12.400	-	-	-	-	-	0.250	9.750	-	-	-	22.400
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	12.400	-	-	-	-	-	0.250	9.750	-	-	-	22.400
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>12.400</b>	-	-	-	-	-	<b>0.250</b>	<b>9.750</b>	-	-	-	<b>22.400</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Funding procures HVAC Upgrades for Patrol Coastal ships.

[HVAC Upgrade]

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 17 - LT316 - Patrol Coastal HVAC Upgrade

<b>Models of Systems Affected:</b> PC HVAC Upgrade	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
LT316 - Patrol Coastal HVAC Upgrade												
B Kits												
Recurring												
1.1.1) HVAC Upgrade - NonOrganic	8 / 4.500	- / -	- / -	- / -	- / -	- / -	- / -	5 / 4.500	- / -	- / -	- / -	13 / 9.000
<i>Subtotal Recurring</i>	8 / 4.500	- / -	- / -	- / -	- / -	- / -	- / -	5 / 4.500	- / -	- / -	- / -	13 / 9.000
<i>Total, LT316 - Patrol Coastal HVAC Upgrade</i>	8 / 4.500	- / -	- / -	- / -	- / -	- / -	- / -	5 / 4.500	- / -	- / -	- / -	13 / 9.000
<i>Total Procurement, All Modifications</i>	8 / 4.500	- / -	- / -	- / -	- / -	- / -	- / -	5 / 4.500	- / -	- / -	- / -	13 / 9.000
<b>Total Procurement and Support</b>	4.500	-	-	-	-	-	-	4.500	-	-	-	9.000
LT316 - Patrol Coastal HVAC Upgrade Installation Cost	- / 7.900	- / -	- / -	- / -	- / -	- / -	- / 0.250	- / 5.250	- / -	- / -	- / -	- / 13.400
<b>Total Installation Cost</b>	- / 7.900	- / -	- / -	- / -	- / -	- / -	- / 0.250	- / 5.250	- / -	- / -	- / -	- / 13.400
<b>Total Cost (Procurement + Support + Installation)</b>	<b>12.400</b>	-	-	-	-	-	<b>0.250</b>	<b>9.750</b>	-	-	-	<b>22.400</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 17 - LT316 - Patrol Coastal HVAC Upgrade

<b>Models of Systems Affected:</b> PC HVAC Upgrade	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information:</b> LT316 - Patrol Coastal HVAC Upgrade
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Manufacturer Name: Manufacturer Name Not Provided.	Manufacturer Location: Manufacturer Location Not Provided.
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Administrative Leadtime ( <i>in Months</i> ):	Production Leadtime ( <i>in Months</i> ):
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Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates							
Delivery Dates							

<b>Installation:</b> LT316 - Patrol Coastal HVAC Upgrade	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> HVAC Upgrade
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	8 / 7.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 7.900
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.250	5 / 5.250	- / -	- / -	- / -	5 / 5.500
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	8 / 7.900	- / -	- / -	- / -	- / -	- / -	- / 0.250	5 / 5.250	- / -	- / -	- / -	13 / 13.400

<b>Installation Schedule</b>																											
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	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	-	-	-	-	-	-	-	-	-	-
Out	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 18 - LT316 - Patrol Coastal Navigation Upgrade

**Models of Systems Affected:** PC Navigation Upgrade    **Type Modification:** [No Modification Type Specified]    **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1.322	0.664	2.641	2.167	-	2.167	2.021	0.392	-	-	-	9.207
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	1.322	0.664	2.641	2.167	-	2.167	2.021	0.392	-	-	-	9.207
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>1.322</b>	<b>0.664</b>	<b>2.641</b>	<b>2.167</b>	<b>-</b>	<b>2.167</b>	<b>2.021</b>	<b>0.392</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>9.207</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

[Navigation Upgrade]

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 18 - LT316 - Patrol Coastal Navigation Upgrade

<b>Models of Systems Affected:</b> PC Navigation Upgrade	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
LT316 - Patrol Coastal Navigation Upgrade												
B Kits												
Recurring												
1.1.1) Navigation Upgrade - NonOrganic <sup>(7)</sup>	3 / 0.522	3 / 0.486	6 / 0.972	- / -	- / -	- / -	1 / 0.164	- / -	- / -	- / -	- / -	13 / 2.144
<i>Subtotal Recurring</i>	3 / 0.522	3 / 0.486	6 / 0.972	- / -	- / -	- / -	1 / 0.164	- / -	- / -	- / -	- / -	13 / 2.144
<i>Total, LT316 - Patrol Coastal Navigation Upgrade</i>	3 / 0.522	3 / 0.486	6 / 0.972	- / -	- / -	- / -	1 / 0.164	- / -	- / -	- / -	- / -	13 / 2.144
<b>Total Procurement, All Modifications</b>	3 / 0.522	3 / 0.486	6 / 0.972	- / -	- / -	- / -	1 / 0.164	- / -	- / -	- / -	- / -	13 / 2.144
<b>Total Procurement and Support</b>	0.522	0.486	0.972	-	-	-	0.164	-	-	-	-	2.144
LT316 - Patrol Coastal Navigation Upgrade Installation Cost	- / 0.800	- / 0.178	- / 1.669	- / 2.167	- / -	- / 2.167	- / 1.857	- / 0.392	- / -	- / -	- / -	- / 7.063
<b>Total Installation Cost</b>	- / 0.800	- / 0.178	- / 1.669	- / 2.167	- / -	- / 2.167	- / 1.857	- / 0.392	- / -	- / -	- / -	- / 7.063
<b>Total Cost (Procurement + Support + Installation)</b>	1.322	0.664	2.641	2.167	-	2.167	2.021	0.392	-	-	-	9.207

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 18 - LT316 - Patrol Coastal Navigation Upgrade

<b>Models of Systems Affected:</b> PC Navigation Upgrade	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: LT316 - Patrol Coastal Navigation Upgrade**

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime ( <i>in Months</i> ): 3	Production Leadtime ( <i>in Months</i> ): 15

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Oct 2012	Oct 2012					
Delivery Dates	Jan 2014	Jan 2014					

**Installation: LT316 - Patrol Coastal Navigation Upgrade**      **Method of Implementation: AIT**      **Installation Name: Navigation Upgrade**

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	1 / 0.700	0 / 0.119	2 / 1.113	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.932
FY 2012	0 / 0.100	- / 0.059	1 / 0.556	2 / 1.083	- / -	2 / 1.083	- / -	- / -	- / -	- / -	- / -	3 / 1.798
FY 2013	- / -	- / -	- / -	2 / 1.084	- / -	2 / 1.084	4 / 1.857	- / -	- / -	- / -	- / -	6 / 2.941
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.392	- / -	- / -	- / -	1 / 0.392
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 0.800	- / 0.178	3 / 1.669	4 / 2.167	- / -	4 / 2.167	4 / 1.857	1 / 0.392	- / -	- / -	- / -	13 / 7.063

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot		
		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	-	-	-	-	-	-	2	1	-	4	-	-	4	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	13
Out	1	-	-	-	-	-	-	2	1	-	4	-	-	4	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	13

**Footnotes:**

(7) One of the three FY12 procured navigation units production lead time is reduced due to the availability of long lead items.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment		<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million
		<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 19 - LT316 - Patrol Coastal FLIR

<b>Models of Systems Affected:</b> PC FLIR			<b>Type Modification:</b> [No Modification Type Specified]				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	1.151	-	0.510	-	0.510	0.510	4.620	-	-	-	6.791
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	1.151	-	0.510	-	0.510	0.510	4.620	-	-	-	6.791
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>1.151</b>	<b>-</b>	<b>0.510</b>	<b>-</b>	<b>0.510</b>	<b>0.510</b>	<b>4.620</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>6.791</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

[FLIR]

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 19 - LT316 - Patrol Coastal FLIR

<b>Models of Systems Affected:</b> PC FLIR	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
LT316 - Patrol Coastal FLIR												
B Kits												
Recurring												
1.1.1) FLIR - NonOrganic	- / -	2 / 0.900	- / -	1 / 0.450	- / -	1 / 0.450	1 / 0.450	9 / 4.050	- / -	- / -	- / -	13 / 5.850
<i>Subtotal Recurring</i>	- / -	2 / 0.900	- / -	1 / 0.450	- / -	1 / 0.450	1 / 0.450	9 / 4.050	- / -	- / -	- / -	13 / 5.850
<i>Total, LT316 - Patrol Coastal FLIR</i>	- / -	2 / 0.900	- / -	1 / 0.450	- / -	1 / 0.450	1 / 0.450	9 / 4.050	- / -	- / -	- / -	13 / 5.850
<i>Total Procurement, All Modifications</i>	- / -	2 / 0.900	- / -	1 / 0.450	- / -	1 / 0.450	1 / 0.450	9 / 4.050	- / -	- / -	- / -	13 / 5.850
<b>Total Procurement and Support</b>	-	0.900	-	0.450	-	0.450	0.450	4.050	-	-	-	5.850
LT316 - Patrol Coastal FLIR Installation Cost	- / 0.000	- / 0.251	- / -	- / 0.060	- / -	- / 0.060	- / 0.060	- / 0.570	- / -	- / -	- / -	- / 0.941
<b>Total Installation Cost</b>	- / 0.000	- / 0.251	- / -	- / 0.060	- / -	- / 0.060	- / 0.060	- / 0.570	- / -	- / -	- / -	- / 0.941
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	<b>1.151</b>	<b>-</b>	<b>0.510</b>	<b>-</b>	<b>0.510</b>	<b>0.510</b>	<b>4.620</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>6.791</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 19 - LT316 - Patrol Coastal FLIR

<b>Models of Systems Affected:</b> PC FLIR	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information:</b> LT316 - Patrol Coastal FLIR	
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Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime ( <i>in Months</i> ): 0	Production Leadtime ( <i>in Months</i> ): 3

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Sep 2012		Oct 2013				
Delivery Dates	Dec 2012		Jan 2014				

<b>Installation:</b> LT316 - Patrol Coastal FLIR	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> FLIR
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	2 / 0.251	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.251
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	1 / 0.060	- / -	1 / 0.060	- / -	- / -	- / -	- / -	- / -	1 / 0.060
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.060	- / -	- / -	- / -	- / -	1 / 0.060
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.570	- / -	- / -	- / -	9 / 0.570
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	2 / 0.251	- / -	1 / 0.060	- / -	1 / 0.060	1 / 0.060	9 / 0.570	- / -	- / -	- / -	13 / 0.941

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot					
		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	-	-	-	-	1	-	-	-	-	3	3	3	-	-	-	-	-	-	-	-	-	-	13		
Out	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	1	-	-	-	-	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	13

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 20 - LT316 - Patrol Coastal HVAC Upgrades Phase II

<b>Models of Systems Affected:</b> PC HVAC Upgrade Phase II	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	-	-	-	-	-	2.600	3.750	-	-	6.350
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	-	-	-	-	-	2.600	3.750	-	-	6.350
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	-	-	-	-	-	-	<b>2.600</b>	<b>3.750</b>	-	-	<b>6.350</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Funding procures HVAC Upgrades for Patrol Coastal ships.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 20 - LT316 - Patrol Coastal HVAC Upgrades Phase II

<b>Models of Systems Affected:</b> PC HVAC Upgrade Phase II	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
LT316 - Patrol Coastal HVAC Upgrades Phase II												
B Kits												
Recurring												
1.1.1) HVAC Upgrades Phase II - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.800	2 / 0.600	- / -	- / -	8 / 2.400
Subtotal Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.800	2 / 0.600	- / -	- / -	8 / 2.400
Total, LT316 - Patrol Coastal HVAC Upgrades Phase II	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.800	2 / 0.600	- / -	- / -	8 / 2.400
<b>Total Procurement, All Modifications</b>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.800	2 / 0.600	- / -	- / -	8 / 2.400
<b>Total Procurement and Support</b>	-	-	-	-	-	-	-	1.800	0.600	-	-	2.400
LT316 - Patrol Coastal HVAC Upgrades Phase II Installation Cost	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.800	- / 3.150	- / -	- / -	- / 3.950
<b>Total Installation Cost</b>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.800	- / 3.150	- / -	- / -	- / 3.950
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	-	-	-	-	-	-	<b>2.600</b>	<b>3.750</b>	-	-	<b>6.350</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 20 - LT316 - Patrol Coastal HVAC Upgrades Phase II

<b>Models of Systems Affected:</b> PC HVAC Upgrade Phase II	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information:</b> LT316 - Patrol Coastal HVAC Upgrades Phase II							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime ( <i>in Months</i> ): 1				Production Leadtime ( <i>in Months</i> ): 3			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates							
Delivery Dates							

<b>Installation:</b> LT316 - Patrol Coastal HVAC Upgrades Phase II	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> HVAC Upgrades Phase II
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<b>Installation Cost</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO</b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.800	5 / 2.250	- / -	- / -	6 / 3.050
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.900	- / -	- / -	2 / 0.900
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.800	7 / 3.150	- / -	- / -	8 / 3.950

<b>Installation Schedule</b>																															
	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	3	2	1	1	-	-	-	-	-	8	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	3	2	1	1	-	-	-	-	-	8	

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 21 - LT316 - Patrol Coastal Rigid-Hulled Inflatable Boat (RHIB)

<b>Models of Systems Affected:</b> PC Hull Monitoring System	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	-	-	-	-	0.050	1.335	2.450	-	-	3.835
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	-	-	-	-	0.050	1.335	2.450	-	-	3.835
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	-	-	-	-	-	<b>0.050</b>	<b>1.335</b>	<b>2.450</b>	-	-	<b>3.835</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 21 - LT316 - Patrol Coastal Rigid-Hulled Inflatable Boat (RHIB)

<b>Models of Systems Affected:</b> PC Hull Monitoring System	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
LT316 - Patrol Coastal Rigid-Hulled Inflatable Boat (RHIB)												
B Kits												
Recurring												
1.1.1) PC RHIB - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.800	9 / 1.800	- / -	- / -	13 / 2.600
<b>Subtotal Recurring</b>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.800	9 / 1.800	- / -	- / -	13 / 2.600
<i>Total, LT316 - Patrol Coastal Rigid-Hulled Inflatable Boat (RHIB)</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.800	9 / 1.800	- / -	- / -	13 / 2.600
<b>Total Procurement, All Modifications</b>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.800	9 / 1.800	- / -	- / -	13 / 2.600
<b>Total Procurement and Support</b>	-	-	-	-	-	-	-	0.800	1.800	-	-	2.600
LT316 - Patrol Coastal Rigid-Hulled Inflatable Boat (RHIB) Installation Cost	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.050	- / 0.535	- / 0.650	- / -	- / -	- / 1.235
<b>Total Installation Cost</b>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.050	- / 0.535	- / 0.650	- / -	- / -	- / 1.235
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	-	-	-	-	-	<b>0.050</b>	<b>1.335</b>	<b>2.450</b>	-	-	<b>3.835</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 21 - LT316 - Patrol Coastal Rigid-Hulled Inflatable Boat (RHIB)

<b>Models of Systems Affected:</b> PC Hull Monitoring System	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: LT316 - Patrol Coastal Rigid-Hulled Inflatable Boat (RHIB)**

Manufacturer Name: Manufacturer Name Not Provided.      Manufacturer Location: Manufacturer Location Not Provided.

Administrative Leadtime (*in Months*):      Production Leadtime (*in Months*):

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates							
Delivery Dates							

**Installation:** LT316 - Patrol Coastal Rigid-Hulled Inflatable Boat (RHIB)      **Method of Implementation:** AIT      **Installation Name:** PC RHIB

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.050	4 / 0.535	- / -	- / -	- / -	4 / 0.585
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.650	- / -	- / -	9 / 0.650
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.050	4 / 0.535	9 / 0.650	- / -	- / -	13 / 1.235

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	2	-	3	3	3	-	-	-	-	-	13	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	3	3	3	-	-	-	-	-	13	

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 22 - LT318 - Carriers Passive Countermeasures System (PCMS)

<b>Models of Systems Affected:</b> Carrier PCMS			<b>Type Modification:</b> [No Modification Type Specified]				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	2.414	-	18.346	-	18.346	19.000	24.000	17.500	18.000	-	99.260
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	2.414	-	18.346	-	18.346	19.000	24.000	17.500	18.000	-	99.260
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>2.414</b>	-	<b>18.346</b>	-	<b>18.346</b>	<b>19.000</b>	<b>24.000</b>	<b>17.500</b>	<b>18.000</b>	-	<b>99.260</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Classified effort.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 22 - LT318 - Carriers Passive Countermeasures System (PCMS)

<b>Models of Systems Affected:</b> Carrier PCMS	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
LT318 - Carriers Passive Countermeasures System (PCMS)												
B Kits												
Recurring												
1.1.1) PCMS - Organic	- / -	- / 2.414	- / -	- / 18.346	- / -	- / 18.346	- / 19.000	- / 24.000	- / 17.500	- / 18.000	- / -	- / 99.260
<i>Subtotal Recurring</i>	- / -	- / 2.414	- / -	- / 18.346	- / -	- / 18.346	- / 19.000	- / 24.000	- / 17.500	- / 18.000	- / -	- / 99.260
<i>Total, LT318 - Carriers Passive Countermeasures System (PCMS)</i>	- / -	- / 2.414	- / -	- / 18.346	- / -	- / 18.346	- / 19.000	- / 24.000	- / 17.500	- / 18.000	- / -	- / 99.260
<b>Total Procurement, All Modifications</b>	- / -	- / 2.414	- / -	- / 18.346	- / -	- / 18.346	- / 19.000	- / 24.000	- / 17.500	- / 18.000	- / -	- / 99.260
<b>Total Procurement and Support</b>	-	2.414	-	18.346	-	18.346	19.000	24.000	17.500	18.000	-	99.260
<b>Total Installation Cost</b>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total Cost (Procurement + Support + Installation)</b>	-	2.414	-	18.346	-	18.346	19.000	24.000	17.500	18.000	-	99.260

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy					<b>Date:</b> April 2013		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment			<b>P-1 Line Item Nomenclature:</b> 0981 - Items less than \$5 Million			<b>Modification Nomenclature</b> <i>(Modification Number - Modification Title):</i> 22 - LT318 - Carriers Passive Countermeasures System (PCMS)	
<b>Models of Systems Affected:</b> Carrier PCMS		<b>Type Modification:</b> [No Modification Type Specified]			<b>Related RDT&amp;E PEs:</b>		
<b>Manufacturer Information:</b> LT318 - Carriers Passive Countermeasures System (PCMS)							
Manufacturer Name: New MFG - Name				Manufacturer Location: New MFG - Loc			
Administrative Leadtime <i>(in Months)</i> : 0				Production Leadtime <i>(in Months)</i> : 0			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates							
Delivery Dates							
<b>Installation:</b> LT318 - Carriers Passive Countermeasures System (PCMS)							
			<b>Method of Implementation:</b> No Quantities Associated with Install			<b>Installation Quantity:</b> 0	

**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0989 - Chemical Warfare Detectors

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	28.982	5.494	4.359	3.678	-	3.678	3.776	3.856	3.940	4.002	-	58.087
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	28.982	5.494	4.359	3.678	-	3.678	3.776	3.856	3.940	4.002	-	58.087
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>28.982</b>	<b>5.494</b>	<b>4.359</b>	<b>3.678</b>	<b>-</b>	<b>3.678</b>	<b>3.776</b>	<b>3.856</b>	<b>3.940</b>	<b>4.002</b>	<b>-</b>	<b>58.087</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

**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.

[P3A / IPDS/LR]: 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 134.

[P3A / JBAIDS]: 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 JBAIDS installations is 21 and Refrigeration installations is 17.

[P3A / JBPDS BLK 1]: The JBPDS Block I will provide the Navy with automated, knowledge-based capability to detect and identify biological warfare agents in less than 20 minutes. The inventory objective for shipboard installations is 90.

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**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0989 - Chemical Warfare Detectors

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1 - CW001 CHEMICAL WARFARE PROGRAM IPDS/LR	P3A				3.211			1.574			1.058			1.858			-			1.858
2 - CW001 CHEMICAL WARFARE PROGRAM JBAIDS	P3A				4.900			-			0.135			-			-			-
3 - CW001 CHEMICAL WARFARE PROGRAM JBAIDS REFRIGERATION UPGRADE	P3A				0.000			0.819			0.706			-			-			-
4 - CW001 CHEMICAL WARFARE PROGRAM JBPDS BLK 1	P3A				20.871			3.101			2.460			1.820			-			1.820
<b>Total Gross/Weapon System Cost</b>					<b>28.982</b>			<b>5.494</b>			<b>4.359</b>			<b>3.678</b>			<b>-</b>			<b>3.678</b>

Item Schedule		ID CD	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1 - CW001 CHEMICAL WARFARE PROGRAM IPDS/LR	P3A				2.646			3.856			3.940			4.002			-			22.145
2 - CW001 CHEMICAL WARFARE PROGRAM JBAIDS	P3A				-			-			-			-			-			5.035
3 - CW001 CHEMICAL WARFARE PROGRAM JBAIDS REFRIGERATION UPGRADE	P3A				-			-			-			-			-			1.525
4 - CW001 CHEMICAL WARFARE PROGRAM JBPDS BLK 1	P3A				1.130			-			-			-			-			29.382
<b>Total Gross/Weapon System Cost</b>					<b>3.776</b>			<b>3.856</b>			<b>3.940</b>			<b>4.002</b>			<b>-</b>			<b>58.087</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0989 - Chemical Warfare Detectors	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - CW001 CHEMICAL WARFARE PROGRAM IPDS/LR

**Models of Systems Affected:** [No Model Specified]      **Type Modification:** [No Modification Type Specified]      **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	3.211	1.574	1.058	1.858	-	1.858	2.646	3.856	3.940	4.002	-	22.145
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	3.211	1.574	1.058	1.858	-	1.858	2.646	3.856	3.940	4.002	-	22.145
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>3.211</b>	<b>1.574</b>	<b>1.058</b>	<b>1.858</b>	<b>-</b>	<b>1.858</b>	<b>2.646</b>	<b>3.856</b>	<b>3.940</b>	<b>4.002</b>	<b>-</b>	<b>22.145</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

OPNAVINST 3400.10F articulates U.S. Navy Chemical, Biological and Radiological Defense (CBRD) policy and establishes functional responsibilities to ensure the highest level of the 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.

[IPDS/LR] Remarks: A total of 28 completed of 134 planned. Due to changing ship availabilities, 4 FY12 funded installs originally planned during 1st quarter FY13 have been shifted to 2nd quarter. There is a large variation in install costs between ship classes which is apparent when looking at the average cost of an install by FY.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0989 - Chemical Warfare Detectors	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - CW001 CHEMICAL WARFARE PROGRAM IPDS/LR

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
CW001 CHEMICAL WARFARE PROGRAM IPDS/LR												
B Kits												
Recurring												
1.1.1) IPDS/LR - NonOrganic	16 / 0.000	15 / -	6 / -	12 / -	- / -	12 / -	14 / -	22 / -	22 / -	27 / -	- / -	134 / -
1.1.2) DSA COST - NonOrganic	- / -	- / 0.487	- / 0.612	- / 0.693	- / -	- / 0.693	- / 1.234	- / 1.519	- / 1.643	- / 0.821	- / -	- / 7.009
<b>Subtotal Recurring</b>	<b>16 / 0.000</b>	<b>15 / 0.487</b>	<b>6 / 0.612</b>	<b>12 / 0.693</b>	<b>- / -</b>	<b>12 / 0.693</b>	<b>14 / 1.234</b>	<b>22 / 1.519</b>	<b>22 / 1.643</b>	<b>27 / 0.821</b>	<b>- / -</b>	<b>134 / 7.009</b>
<b>Total, CW001 CHEMICAL WARFARE PROGRAM IPDS/LR</b>	<b>16 / 0.000</b>	<b>15 / 0.487</b>	<b>6 / 0.612</b>	<b>12 / 0.693</b>	<b>- / -</b>	<b>12 / 0.693</b>	<b>14 / 1.234</b>	<b>22 / 1.519</b>	<b>22 / 1.643</b>	<b>27 / 0.821</b>	<b>- / -</b>	<b>134 / 7.009</b>
<b>Total Procurement, All Modifications</b>	<b>16 / 0.000</b>	<b>15 / 0.487</b>	<b>6 / 0.612</b>	<b>12 / 0.693</b>	<b>- / -</b>	<b>12 / 0.693</b>	<b>14 / 1.234</b>	<b>22 / 1.519</b>	<b>22 / 1.643</b>	<b>27 / 0.821</b>	<b>- / -</b>	<b>134 / 7.009</b>
<b>Total Procurement and Support</b>	<b>0.000</b>	<b>0.487</b>	<b>0.612</b>	<b>0.693</b>	<b>-</b>	<b>0.693</b>	<b>1.234</b>	<b>1.519</b>	<b>1.643</b>	<b>0.821</b>	<b>-</b>	<b>7.009</b>
CW001 CHEMICAL WARFARE PROGRAM IPDS/LR Installation Cost	- / 3.211	- / 1.087	- / 0.446	- / 1.165	- / -	- / 1.165	- / 1.412	- / 2.337	- / 2.297	- / 3.181	- / -	- / 15.136
<b>Total Installation Cost</b>	<b>- / 3.211</b>	<b>- / 1.087</b>	<b>- / 0.446</b>	<b>- / 1.165</b>	<b>- / -</b>	<b>- / 1.165</b>	<b>- / 1.412</b>	<b>- / 2.337</b>	<b>- / 2.297</b>	<b>- / 3.181</b>	<b>- / -</b>	<b>- / 15.136</b>
<b>Total Cost (Procurement + Support + Installation)</b>	<b>3.211</b>	<b>1.574</b>	<b>1.058</b>	<b>1.858</b>	<b>-</b>	<b>1.858</b>	<b>2.646</b>	<b>3.856</b>	<b>3.940</b>	<b>4.002</b>	<b>-</b>	<b>22.145</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0989 - Chemical Warfare Detectors	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - CW001 CHEMICAL WARFARE PROGRAM IPDS/LR

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: CW001 CHEMICAL WARFARE PROGRAM IPDS/LR**

Manufacturer Name: Manufacturer Name Not Provided.      Manufacturer Location: Manufacturer Location Not Provided.

Administrative Leadtime (*in Months*):      Production Leadtime (*in Months*):

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates							
Delivery Dates							

**Installation: CW001 CHEMICAL WARFARE PROGRAM IPDS/LR      Method of Implementation: AIT      Installation Name: IPDS/LR**

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	2 / 3.211	14 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 3.211
FY 2012	- / -	11 / 1.087	4 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 1.087
FY 2013	- / -	- / -	6 / 0.446	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.446
FY 2014	- / -	- / -	- / -	12 / 1.165	- / -	12 / 1.165	- / -	- / -	- / -	- / -	- / -	12 / 1.165
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	14 / 1.412	- / -	- / -	- / -	- / -	14 / 1.412
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 2.337	- / -	- / -	- / -	22 / 2.337
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 2.297	- / -	- / -	22 / 2.297
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 3.181	- / -	27 / 3.181
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2 / 3.211	25 / 1.087	10 / 0.446	12 / 1.165	- / -	12 / 1.165	14 / 1.412	22 / 2.337	22 / 2.297	27 / 3.181	- / -	134 / 15.136

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	9	6	9	-	6	2	2	3	3	3	3	4	4	3	3	6	6	5	5	6	6	5	5	6	7	7	7	-	134
Out	2	1	9	6	9	-	6	2	2	3	3	3	3	4	4	3	3	6	6	5	5	6	6	5	5	6	7	7	7	-	134

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0989 - Chemical Warfare Detectors	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - CW001 CHEMICAL WARFARE PROGRAM JBAIDS

**Models of Systems Affected:** [No Model Specified]      **Type Modification:** [No Modification Type Specified]      **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	4.900	-	0.135	-	-	-	-	-	-	-	-	5.035
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	4.900	-	0.135	-	-	-	-	-	-	-	-	5.035
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>4.900</b>	-	<b>0.135</b>	-	-	-	-	-	-	-	-	<b>5.035</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

OPNAVINST 3400.10F articulates U.S. Navy Chemical, Biological and Radiological Defense (CBRD) policy and establishes functional responsibilities to ensure the highest level of the Fleet readiness and warfighting sustainability in a CBR environment. Joint Biological Agent Identification and Diagnostic System (JBAIDS) systems will identify and quantify biological organisms of operational concern and other pathogens of clinical significance for confirmatory and prognostic purposes. The 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. 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.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0989 - Chemical Warfare Detectors	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - CW001 CHEMICAL WARFARE PROGRAM JBAIDS

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
CW001 CHEMICAL WARFARE PROGRAM JBAIDS												
B Kits												
Non-Recurring												
1.1.1) JBAIDS - NonOrganic	20 / 0.000	- / -	1 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / -
1.1.2) DSA COST - NonOrganic	- / -	- / -	- / 0.085	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.085
<b>Subtotal Non-Recurring</b>	20 / 0.000	- / -	1 / 0.085	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 0.085
<b>Total, CW001 CHEMICAL WARFARE PROGRAM JBAIDS</b>	20 / 0.000	- / -	1 / 0.085	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 0.085
<b>Total Procurement, All Modifications</b>	20 / 0.000	- / -	1 / 0.085	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 0.085
<b>Total Procurement and Support</b>	0.000	-	0.085	-	-	-	-	-	-	-	-	0.085
CW001 CHEMICAL WARFARE PROGRAM JBAIDS Installation Cost	- / 4.900	- / -	- / 0.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.950
<b>Total Installation Cost</b>	- / 4.900	- / -	- / 0.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.950
<b>Total Cost (Procurement + Support + Installation)</b>	4.900	-	0.135	-	-	-	-	-	-	-	-	5.035

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0989 - Chemical Warfare Detectors	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - CW001 CHEMICAL WARFARE PROGRAM JBAIDS

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information:** CW001 CHEMICAL WARFARE PROGRAM JBAIDS

Manufacturer Name: Manufacturer Name Not Provided.      Manufacturer Location: Manufacturer Location Not Provided.

Administrative Leadtime (*in Months*):      Production Leadtime (*in Months*):

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates							
Delivery Dates							

**Installation:** CW001 CHEMICAL WARFARE PROGRAM JBAIDS      **Method of Implementation:** AIT      **Installation Name:** JBAIDS

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	20 / 4.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 4.900
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	1 / 0.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.050
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	20 / 4.900	- / -	1 / 0.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 4.950

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	20	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21
Out	20	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0989 - Chemical Warfare Detectors	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - CW001 CHEMICAL WARFARE PROGRAM JBAIDS REFRIGERATION UPGRADE

**Models of Systems Affected:** [No Model Specified]      **Type Modification:** [No Modification Type Specified]      **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	0.819	0.706	-	-	-	-	-	-	-	-	1.525
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	0.819	0.706	-	-	-	-	-	-	-	-	1.525
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>0.819</b>	<b>0.706</b>	-	-	-	-	-	-	-	-	<b>1.525</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

[JBAIDS REFRIGERATION UPGRADE] Remarks: 4 JBAIDS hardware upgrades were scheduled to occur 4th quarter FY12. 2 were completed on schedule. 1 was completed first quarter FY13 due to ship availability change and 1 has been rescheduled to second quarter FY13 to align with ship availability.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0989 - Chemical Warfare Detectors	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - CW001 CHEMICAL WARFARE PROGRAM JBAIDS REFRIGERATION UPGRADE

**Models of Systems Affected:** [No Model Specified]      **Type Modification:** [No Modification Type Specified]      **Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
CW001 CHEMICAL WARFARE PROGRAM JBAIDS REFRIGERATION UPGRADE												
B Kits												
Recurring												
1.1.1) JBAIDS REFRIGERATION UPGRADE - NonOrganic	- / -	4 / -	13 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / -
1.1.2) DSA COST - NonOrganic	- / -	- / 0.725	- / 0.388	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.113
<i>Subtotal Recurring</i>	- / -	4 / 0.725	13 / 0.388	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 1.113
<i>Total, CW001 CHEMICAL WARFARE PROGRAM JBAIDS REFRIGERATION UPGRADE</i>	- / -	4 / 0.725	13 / 0.388	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 1.113
<b>Total Procurement, All Modifications</b>	- / -	4 / 0.725	13 / 0.388	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 1.113
<b>Total Procurement and Support</b>	-	0.725	0.388	-	-	-	-	-	-	-	-	1.113
CW001 CHEMICAL WARFARE PROGRAM JBAIDS REFRIGERATION UPGRADE Installation Cost	- / 0.000	- / 0.094	- / 0.318	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.412
<b>Total Installation Cost</b>	- / 0.000	- / 0.094	- / 0.318	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.412
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	<b>0.819</b>	<b>0.706</b>	-	-	-	-	-	-	-	-	<b>1.525</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0989 - Chemical Warfare Detectors	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - CW001 CHEMICAL WARFARE PROGRAM JBAIDS REFRIGERATION UPGRADE

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: CW001 CHEMICAL WARFARE PROGRAM JBAIDS REFRIGERATION UPGRADE**

Manufacturer Name: Manufacturer Name Not Provided.	Manufacturer Location: Manufacturer Location Not Provided.
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Administrative Leadtime ( <i>in Months</i> ):	Production Leadtime ( <i>in Months</i> ):
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Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates							
Delivery Dates							

<b>Installation:</b> CW001 CHEMICAL WARFARE PROGRAM JBAIDS REFRIGERATION UPGRADE	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> JBAIDS REFRIGERATION UPGRADE
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	2 / 0.094	2 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.094
FY 2013	- / -	- / -	13 / 0.318	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.318
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	2 / 0.094	15 / 0.318	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 0.412

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	7	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
Out	-	-	-	-	2	1	7	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0989 - Chemical Warfare Detectors	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - CW001 CHEMICAL WARFARE PROGRAM JBPDS BLK 1

**Models of Systems Affected:** [No Model Specified]      **Type Modification:** [No Modification Type Specified]      **Related RDT&E PEs:**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	20.871	3.101	2.460	1.820	-	1.820	1.130	-	-	-	-	29.382
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	20.871	3.101	2.460	1.820	-	1.820	1.130	-	-	-	-	29.382
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>20.871</b>	<b>3.101</b>	<b>2.460</b>	<b>1.820</b>	<b>-</b>	<b>1.820</b>	<b>1.130</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>29.382</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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 Chemical Biological Defense Program Budget P-1 Item Nomenclature: (JP0100) JOINT BIO POINT DETECTION SYSTEM (JBPDS).

[JBPDS BLK 1] Remarks: A total of 69 completed of 90 planned. 2 JBPDS installations scheduled to occur 4th quarter FY12 were rescheduled for 2nd quarter FY13 due to ship availability changes. 1 JBPDS installation scheduled to occur 1st quarter FY13 was rescheduled to 2nd quarter FY13 to align with ship availability.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0989 - Chemical Warfare Detectors	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - CW001 CHEMICAL WARFARE PROGRAM JBPDS BLK 1

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
CW001 CHEMICAL WARFARE PROGRAM JBPDS BLK 1												
B Kits												
Recurring												
1.1.1) JBPDS BLK 1 - NonOrganic	62 / 0.000	10 / -	8 / -	6 / -	- / -	6 / -	4 / -	- / -	- / -	- / -	- / -	90 / -
1.1.2) DSA COST - NonOrganic	- / -	- / 0.657	- / 0.461	- / 0.303	- / -	- / 0.303	- / 0.091	- / -	- / -	- / -	- / -	- / 1.512
<b>Subtotal Recurring</b>	62 / 0.000	10 / 0.657	8 / 0.461	6 / 0.303	- / -	6 / 0.303	4 / 0.091	- / -	- / -	- / -	- / -	90 / 1.512
<b>Total, CW001 CHEMICAL WARFARE PROGRAM JBPDS BLK 1</b>	62 / 0.000	10 / 0.657	8 / 0.461	6 / 0.303	- / -	6 / 0.303	4 / 0.091	- / -	- / -	- / -	- / -	90 / 1.512
<b>Total Procurement, All Modifications</b>	62 / 0.000	10 / 0.657	8 / 0.461	6 / 0.303	- / -	6 / 0.303	4 / 0.091	- / -	- / -	- / -	- / -	90 / 1.512
<b>Total Procurement and Support</b>	0.000	0.657	0.461	0.303	-	0.303	0.091	-	-	-	-	1.512
CW001 CHEMICAL WARFARE PROGRAM JBPDS BLK 1 Installation Cost	- / 20.871	- / 2.444	- / 1.999	- / 1.517	- / -	- / 1.517	- / 1.039	- / -	- / -	- / -	- / -	- / 27.870
<b>Total Installation Cost</b>	- / 20.871	- / 2.444	- / 1.999	- / 1.517	- / -	- / 1.517	- / 1.039	- / -	- / -	- / -	- / -	- / 27.870
<b>Total Cost (Procurement + Support + Installation)</b>	20.871	3.101	2.460	1.820	-	1.820	1.130	-	-	-	-	29.382

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0989 - Chemical Warfare Detectors	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - CW001 CHEMICAL WARFARE PROGRAM JBPDS BLK 1

<b>Models of Systems Affected:</b> [No Model Specified]	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information:** CW001 CHEMICAL WARFARE PROGRAM JBPDS BLK 1

Manufacturer Name: New MFG - Name      Manufacturer Location: New MFG - Loc

Administrative Leadtime (*in Months*): 0      Production Leadtime (*in Months*): 0

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates							
Delivery Dates							

**Installation:** CW001 CHEMICAL WARFARE PROGRAM JBPDS BLK 1      **Method of Implementation:** AIT      **Installation Name:** JBPDS BLK 1

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	55 / 20.871	7 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	62 / 20.871
FY 2012	- / -	6 / 2.444	4 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.444
FY 2013	- / -	- / -	8 / 1.999	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 1.999
FY 2014	- / -	- / -	- / -	6 / 1.517	- / -	6 / 1.517	- / -	- / -	- / -	- / -	- / -	6 / 1.517
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.039	- / -	- / -	- / -	- / -	4 / 1.039
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	55 / 20.871	13 / 2.444	12 / 1.999	6 / 1.517	- / -	6 / 1.517	4 / 1.039	- / -	- / -	- / -	- / -	90 / 27.870

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot	
		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	55	4	3	5	1	1	5	4	2	2	2	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90
Out	55	4	3	5	1	1	5	4	2	2	2	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90

**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0990 - Submarine Life Support System

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	58.746	13.364	10.218	8.292	-	8.292	8.513	8.700	8.877	9.037	2.073	127.820
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	58.746	13.364	10.218	8.292	-	8.292	8.513	8.700	8.877	9.037	2.073	127.820
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>58.746</b>	<b>13.364</b>	<b>10.218</b>	<b>8.292</b>	<b>-</b>	<b>8.292</b>	<b>8.513</b>	<b>8.700</b>	<b>8.877</b>	<b>9.037</b>	<b>2.073</b>	<b>127.820</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

[P40A / SUBMARINE LIFE SUPPORT SYSTEM ]: 5D830 - PRODUCTION ENGINEERING

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.

[P3A / CAMS IIA]: 5D009 - CENTRAL ATMOSPHERE MONITORING SYSTEM (CAMS) IIA

A replacement atmosphere analyzer to replace the current CAMS I units on 688 Class submarines due to obsolescence.

[P3A / LOW PRESSURE ELECTROLYZER]: 5D010 - THE LOW PRESSURE ELECTROLYZER (LPE)

The LPE will replace the Electrolytic Oxygen Generators (EOG) currently being used on SSBN/SSGN Class submarines. The LPE also replaces the Oxygen Generating Plant (OGP) on SSN 21 Class submarines that has become unreliable and expensive to operate. The LPE produces oxygen at low pressure eliminating the need for high pressure oxygen storage. There will be two LPEs on SSBN/SSGN Class submarines and one LPE on SSN 21 Class submarines. There will be a total of 39 LPE units.

**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0990 - Submarine Life Support System

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
SUBMARINE LIFE SUPPORT SYSTEM	P40A				5.616			0.305			0.248			0.134			-			0.134
1 - 5D009 CAMS IIA	P3A				12.522			3.114			-			-			-			-
2 - 5D010 LOW PRESSURE ELECTROLYZER	P3A				40.608			9.945			9.970			8.158			-			8.158
<b>Total Gross/Weapon System Cost</b>					<b>58.746</b>			<b>13.364</b>			<b>10.218</b>			<b>8.292</b>			<b>-</b>			<b>8.292</b>

Item Schedule		ID CD	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
SUBMARINE LIFE SUPPORT SYSTEM	P40A				-			-			-			-			-			-
1 - 5D009 CAMS IIA	P3A				-			-			-			-			-			15.636
2 - 5D010 LOW PRESSURE ELECTROLYZER	P3A				8.301			8.451			8.604			8.756			1.425			104.218
<b>Total Gross/Weapon System Cost</b>					<b>8.513</b>			<b>8.700</b>			<b>8.877</b>			<b>9.037</b>			<b>2.073</b>			<b>127.820</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

**UNCLASSIFIED**

**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0990 - Submarine Life Support System

**Aggregated Item Name:**  
SUBMARINE LIFE SUPPORT SYSTEM

Items	ID CD	MDAP/ MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)															
<b>1) 5D830 PRODUCTION ENGINEERING</b>																				
1.1) PRODUCTION ENGINEERING	A		-	-	5.616	-	-	0.305	-	-	0.248	-	-	0.134	-	-	-	-	-	0.134
<b>Total</b>					<b>5.616</b>			<b>0.305</b>			<b>0.248</b>			<b>0.134</b>			<b>-</b>			<b>0.134</b>

**UNCLASSIFIED**

**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 9: Other Shipboard Equipment

**P-1 Line Item Nomenclature:**  
0990 - Submarine Life Support System

**Aggregated Item Name:**  
SUBMARINE LIFE SUPPORT SYSTEM

Items	ID CD	MDAP/ MAIS Code	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)															
<b>1) 5D830 PRODUCTION ENGINEERING</b>																				
1.1) PRODUCTION ENGINEERING	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>					-			-			-			-			-			-

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0990 - Submarine Life Support System	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - 5D009 CAMS IIA

<b>Models of Systems Affected:</b> CAMS IIA			<b>Type Modification:</b> [No Modification Type Specified]				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	12.522	3.114	-	-	-	-	-	-	-	-	-	15.636
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	12.522	3.114	-	-	-	-	-	-	-	-	-	15.636
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>12.522</b>	<b>3.114</b>	-	-	-	-	-	-	-	-	-	<b>15.636</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012  
<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**  
 [CAMS IIA] A replacement atmosphere analyzer to replace the current CAMS I units on 688 Class submarines due to obsolescence.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0990 - Submarine Life Support System	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - 5D009 CAMS IIA

<b>Models of Systems Affected:</b> CAMS IIA	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
5D009 CAMS IIA												
B Kits												
Recurring												
1.1.1) CAMS IIA - NonOrganic <sup>(1)</sup>	24 / 12.522	8 / 3.114	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 15.636
<i>Subtotal Recurring</i>	24 / 12.522	8 / 3.114	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 15.636
<i>Total, 5D009 CAMS IIA</i>	24 / 12.522	8 / 3.114	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 15.636
<b>Total Procurement, All Modifications</b>	24 / 12.522	8 / 3.114	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 15.636
<b>Total Procurement and Support</b>	12.522	3.114	-	-	-	-	-	-	-	-	-	15.636
5D009 CAMS IIA Installation Cost	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Total Installation Cost</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total Cost (Procurement + Support + Installation)</b>	12.522	3.114	-	-	-	-	-	-	-	-	-	15.636

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0990 - Submarine Life Support System	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - 5D009 CAMS IIA

<b>Models of Systems Affected:</b> CAMS IIA	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information:** 5D009 CAMS IIA

Manufacturer Name: HAMILTON SUNDSTRAND	Manufacturer Location: CT
Administrative Leadtime ( <i>in Months</i> ): 3	Production Leadtime ( <i>in Months</i> ): 13

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Jan 2012						
Delivery Dates	Feb 2013						

**Installation:** 5D009 CAMS IIA      **Method of Implementation:** [none specified]      **Installation Name:** CAMS IIA

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	16 / 0.000	8 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.000
FY 2012	- / -	- / -	8 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	16 / 0.000	8 / -	8 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / -

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	16	1	-	4	3	-	3	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32
Out	16	1	-	4	3	-	3	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32

**Footnotes:**  
(1) P-3A submitted in place of P-23 and P-23A.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0990 - Submarine Life Support System	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - 5D010 LOW PRESSURE ELECTROLYZER

<b>Models of Systems Affected:</b> Low Pressure Electrolyzer	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	40.608	9.945	9.970	8.158	-	8.158	8.301	8.451	8.604	8.756	1.425	104.218
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	40.608	9.945	9.970	8.158	-	8.158	8.301	8.451	8.604	8.756	1.425	104.218
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>40.608</b>	<b>9.945</b>	<b>9.970</b>	<b>8.158</b>	<b>-</b>	<b>8.158</b>	<b>8.301</b>	<b>8.451</b>	<b>8.604</b>	<b>8.756</b>	<b>1.425</b>	<b>104.218</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

[LOW PRESSURE ELECTROLYZER] 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.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0990 - Submarine Life Support System	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - 5D010 LOW PRESSURE ELECTROLYZER

<b>Models of Systems Affected:</b> Low Pressure Electrolyzer	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
5D010 LOW PRESSURE ELECTROLYZER												
B Kits												
Recurring												
1.1.1) LOW PRESSURE ELECTROLYZER - NonOrganic <sup>(2)</sup>	16 / 40.608	4 / 9.945	4 / 9.970	3 / 8.158	- / -	3 / 8.158	3 / 8.301	3 / 8.451	3 / 8.604	3 / 8.756	- / 1.425	39 / 104.218
<i>Subtotal Recurring</i>	16 / 40.608	4 / 9.945	4 / 9.970	3 / 8.158	- / -	3 / 8.158	3 / 8.301	3 / 8.451	3 / 8.604	3 / 8.756	- / 1.425	39 / 104.218
<i>Total, 5D010 LOW PRESSURE ELECTROLYZER</i>	16 / 40.608	4 / 9.945	4 / 9.970	3 / 8.158	- / -	3 / 8.158	3 / 8.301	3 / 8.451	3 / 8.604	3 / 8.756	- / 1.425	39 / 104.218
<i>Total Procurement, All Modifications</i>	16 / 40.608	4 / 9.945	4 / 9.970	3 / 8.158	- / -	3 / 8.158	3 / 8.301	3 / 8.451	3 / 8.604	3 / 8.756	- / 1.425	39 / 104.218
<i>Total Procurement and Support</i>	40.608	9.945	9.970	8.158	-	8.158	8.301	8.451	8.604	8.756	1.425	104.218
5D010 LOW PRESSURE ELECTROLYZER Installation Cost	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Total Installation Cost</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total Cost (Procurement + Support + Installation)</b>	<b>40.608</b>	<b>9.945</b>	<b>9.970</b>	<b>8.158</b>	<b>-</b>	<b>8.158</b>	<b>8.301</b>	<b>8.451</b>	<b>8.604</b>	<b>8.756</b>	<b>1.425</b>	<b>104.218</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 9: Other Shipboard Equipment	<b>P-1 Line Item Nomenclature:</b> 0990 - Submarine Life Support System	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - 5D010 LOW PRESSURE ELECTROLYZER

<b>Models of Systems Affected:</b> Low Pressure Electrolyzer	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: 5D010 LOW PRESSURE ELECTROLYZER**

Manufacturer Name: TREADWELL CORP	Manufacturer Location: CT
Administrative Leadtime ( <i>in Months</i> ): 3	Production Leadtime ( <i>in Months</i> ): 13

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Feb 2012	Nov 2012	Nov 2013	Nov 2014	Nov 2015	Nov 2016	Nov 2017
Delivery Dates	Mar 2013	Dec 2013	Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018

**Installation: 5D010 LOW PRESSURE ELECTROLYZER**      **Method of Implementation:** [none specified]      **Installation Name:** LOW PRESSURE ELECTROLYZER

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	12 / 0.000	4 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.000
FY 2012	- / -	- / -	4 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / -
FY 2013	- / -	- / -	- / -	4 / -	- / -	4 / -	- / -	- / -	- / -	- / -	- / -	4 / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	3 / -	- / -	- / -	- / -	- / -	3 / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / -	- / -	- / -	- / -	3 / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / -	- / -	- / -	3 / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / -	- / -	3 / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / -	3 / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	12 / 0.000	4 / -	4 / -	4 / -	- / -	4 / -	3 / -	3 / -	3 / -	3 / -	3 / -	39 / -

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	2	2	-	-	2	2	-	-	2	2	-	-	2	1	-	-	2	1	-	-	2	1	-	-	2	1	-	3	39
Out	12	-	2	2	-	-	2	2	-	-	2	2	-	-	2	1	-	-	2	1	-	-	2	1	-	-	2	1	-	3	39

**Footnotes:**  
(2) P-3A submitted in place of P-23 and P-23A.

**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 10: Reactor Plant Equipment	<b>P-1 Line Item Nomenclature:</b> 1010 - Reactor Power Units
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	429.420	435.055	286.859	-	-	-	298.188	-	321.110	-	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	429.420	435.055	286.859	-	-	-	298.188	-	321.110	-	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>429.420</b>	<b>435.055</b>	<b>286.859</b>	-	-	-	<b>298.188</b>	-	<b>321.110</b>	-	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(Units in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(Units in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

The details of this program are classified CONFIDENTIAL and are submitted to Congress annually in the classified budget justification books.

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Reactor Power Units	P40A				429.420			435.055			286.859			-			-			-
<b>Total Gross/Weapon System Cost</b>				<b>429.420</b>			<b>435.055</b>			<b>286.859</b>			<b>-</b>			<b>-</b>			<b>-</b>	

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

The details of this program are classified CONFIDENTIAL and are submitted to Congress annually in the classified budget justification books.

**UNCLASSIFIED**

<b>Exhibit P-40A, Budget Item Justification For Aggregated Items:</b> PB 2014 Navy															<b>Date:</b> April 2013				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 10: Reactor Plant Equipment										<b>P-1 Line Item Nomenclature:</b> 1010 - Reactor Power Units					<b>Aggregated Item Name:</b> Reactor Power Units				

Items	ID CD	MDAP/ MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)															
<b>1) Reactor Power Units</b>																				
1) Reactor Power Units	A		-	-	429.420	-	-	435.055	-	-	286.859	-	-	-	-	-	-	-	-	-
<b>Total</b>					<b>429.420</b>			<b>435.055</b>			<b>286.859</b>			-			-			-

**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 10: Reactor Plant Equipment

**P-1 Line Item Nomenclature:**  
1020 - Reactor Components

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	265.022	271.600	278.503	286.744	-	286.744	295.159	305.490	316.182	327.249	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	265.022	271.600	278.503	286.744	-	286.744	295.159	305.490	316.182	327.249	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>265.022</b>	<b>271.600</b>	<b>278.503</b>	<b>286.744</b>	<b>-</b>	<b>286.744</b>	<b>295.159</b>	<b>305.490</b>	<b>316.182</b>	<b>327.249</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

The details of this program are classified CONFIDENTIAL and are submitted to Congress annually in the classified budget justification books.

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Reactor Components	P40A				265.022			271.600			278.503			286.744			-			286.744
<b>Total Gross/Weapon System Cost</b>					<b>265.022</b>			<b>271.600</b>			<b>278.503</b>			<b>286.744</b>			<b>-</b>			<b>286.744</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

The details of this program are classified CONFIDENTIAL and are submitted to Congress annually in the classified budget justification books.

**UNCLASSIFIED**

**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
 1810N: Other Procurement, Navy / BA 01: Ships Support  
 Equipment / BSA 10: Reactor Plant Equipment

**P-1 Line Item Nomenclature:**  
 1020 - Reactor Components

**Aggregated Item Name:**  
 Reactor Components

Items	ID CD	MDAP/ MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)															
<b>1) Reactor Components</b>																				
1) Reactor Components	A		-	-	265.022	-	-	271.600	-	-	278.503	-	-	286.744	-	-	-	-	-	286.744
<b>Total</b>					<b>265.022</b>			<b>271.600</b>			<b>278.503</b>			<b>286.744</b>			<b>-</b>			<b>286.744</b>

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 11: Ocean Engineering	<b>P-1 Line Item Nomenclature:</b> 1130 - Diving and Salvage Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b> 0204561N, 0204454N, 0204423N
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**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	37.518	9.644	8.998	8.780	-	8.780	12.587	11.664	9.294	9.504	-	107.989
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	37.518	9.644	8.998	8.780	-	8.780	12.587	11.664	9.294	9.504	-	107.989
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>37.518</b>	<b>9.644</b>	<b>8.998</b>	<b>8.780</b>	<b>-</b>	<b>8.780</b>	<b>12.587</b>	<b>11.664</b>	<b>9.294</b>	<b>9.504</b>	<b>-</b>	<b>107.989</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	0.786	0.855	0.629	-	0.629	0.940	0.863	0.702	0.337	Continuing	Continuing
Flyaway Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

DIVING AND SALVAGE EQUIPMENT:

DIVING: 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 buys 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.

SALVAGE: 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.

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; Stockton, 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.

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 11: Ocean Engineering		<b>P-1 Line Item Nomenclature:</b> 1130 - Diving and Salvage Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b> 0204561N, 0204454N, 0204423N
<b>MDAP/MAIS Code(s):</b>		
<p>[P40A / DIVING (N97)]: The DIVING EQUIPMENTS to be procured are:</p> <p>[P40A / HY106 - LIGHTWEIGHT DIVE SYSTEMS ]: 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> <p>[P40A / HY107 - PORTABLE RECOMPRESSION CHAMBERS]: The Paracel Transportable Recompression Chamber System provides an effective two-man evacuation, transport, treatment, and transfer under pressure capability in order to benefit a diver suffering a pressure related ailment requiring urgent hyperbaric treatment. This is the lightest, most transportable system available to the U. S. Navy. Required I/O is 16.</p> <p>[P40A / HY123 - FLY AWAY DIVE SYSTEMS III HP COMPOSITE FLASK REPLACEMENT]: 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, 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, umbilicals, 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 I/O is 2 High Pressure Air Systems, 95 Mixed Gas Systems, and 2 Fads III Support Equipment.</p> <p>[P40A / HY132 - STANDARD NAVY DOUBLE LOCK RECOMPRESSION CHAMBER (SNDL)]: HY132 Standard Navy Double Lock Recompression Chamber: The Recompression Chambers are to be conventional chambers designed to be built using standard commercial specification and standards. Chambers will be capable of providing a full range of recompression treatment to two patients and two attendants. These chambers are containerized to allow the chamber to be transported and installed for long term operations. These chambers will replace aging and difficult to maintain recompression chambers that will be retired due to fatigue and material flaws. Required I/O is 30.</p> <p>[P40A / HY176 - HP AIR COMPRESSORS]: This item replaces high pressure air compressors in existing divers' life support systems which have reached the end of their service life. Required I/O is 300.</p> <p>[P40A / HY177 - AIR PURIFICATION UNITS]: 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 I/O is 50 units.</p> <p>[P40A / HY179 - NAVY EXPERIMENTAL DIVING UNIT]: NEDU's mission is to support the Fleet diver through test and evaluation of diving equipment and procedures as well as hyperbaric systems for NAVSEA, Navy, and DoD activities. Funding is to procure equipment for test, facilities atmospheric control, life support, and physiological systems. These systems not only ensure the safety and lives of NEDU sailors performing experimental dives, but ultimately support the combat readiness and mission success of the Fleet sailors who use the equipment tested at NEDU. Funding is included 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 degrees Fahrenheit, an associated 1.3 million-cubic foot (37 km3) bottle field and uses a fully computerized data instrumentation and collection system.</p> <p>[P40A / HY192 - THERMAL DIVING SUITS]: New technology diving suits which can be used in cold or warm water to maintain a diver in a safe thermal environment. I/O is 1000.</p> <p>[P40A / HY193 - SURFACE SUPPLIED DIVING HELMET]: Replacement helmets for the current MK 21 which have reached the end of their service life. Required I/O is 250.</p>		

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 11: Ocean Engineering		<b>P-1 Line Item Nomenclature:</b> 1130 - Diving and Salvage Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b> 0204561N, 0204454N, 0204423N
<b>MDAP/MAIS Code(s):</b>		
<p>[P40A / HY194 - CONTAMINATED WATER DIVING EQUIPMENT]: Surface supplied diving equipment (helmets, drysuits, umbilicals, surface exhaust consoles, etc.) specially designed for diving in contaminated water. Required I/O is 3.</p> <p>[P40A / HY199 - NAVY DIVE COMPUTER]: The diving computers are made of two major 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>[P40A / HY207 - EXTREME LIGHTWEIGHT DIVING SYSTEM (XLDS)]: 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>[P40A / HY208 - IMPROVED TRANSPORTABLE RECOMPRESSION CHAMBER SYSTEMS (I-TRCS)]: 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>[P40A / HY209 - OXYGEN REGULATING CONSOLE ASSEMBLY (ORCA)]: 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>[P40A / HY210 - COMPACT AIR SUPPLY RACK ASSEMBLY (CASRA)]: 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 cylinder with a simple, unregulated control panel. The rack will provide 3000 psi oxygen to either an 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>[P40A / HY211 - COMPACT OXYGEN SUPPLY RACK ASSEMBLY (COSRA)]: This is a smaller version of the OSRA Supply Rack Assembly (OSRA) that will have 4 cylinders rather than 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 3000psi oxygen to either an 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>[P40A / HY212 - FLY AWAY DIVE SYSTEMS (FADS) IV CONTROL CONSOLE ASSEMBLY (CCA)]: 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, OSRAM or a new COSRA. The system is not anticipated to have a volume tank as it will operate on HP air only. Required Inventory Objective I/O is 20.</p> <p>[P40A / HY213 - HP COMPOSITE FLASK REPLACEMENT]: The flasks used in the CAOS, ASRA, OSRA, HOSRA, CASRA, and COSRA all require replacement after 15 years. NAVSEA 00C has promised to provide the cylinders to fleet diving commands. Required Inventory Objective I/O is 2500.</p> <p>[P40A / HY214 - CONTAMINATED WATER DIVING (CWD) SURFACE DECONTAMINATION EQUIP]: 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 Inventory Objective I/O is 3.</p> <p>[P40A / SALVAGE (N9I)]: The SALVAGE EQUIPMENTS to be procured are:</p>		

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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 11: Ocean Engineering		<b>P-1 Line Item Nomenclature:</b> 1130 - Diving and Salvage Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b> 0204561N, 0204454N, 0204423N
<b>MDAP/MAIS Code(s):</b>		
<p>[P40A / HY016 - DECK CAPSTANS]: : The portable hydraulic capstan system consists of one portable hydraulic driven capstan, one portable hydraulic power unit, and all necessary controls and hydraulic hoses. The capstans are rated to pull up to 7,500 pounds. Required I/O is 34.</p> <p>[P40A / HY043 - OCEANOGRAPHIC UMBILICAL]: The Navy maintains the SWISS, DEEP DRONE, ORION, CURV-21 and MAGNUM remotely operated vehicles for use in hazardous salvage, inspection, and pollution operations. These vehicles are remotely controlled through umbilicals which transmit all command and control functions to the vehicle as well as transmitting all sensor data from the vehicle to the ship. They are procured in different lengths for use in varying ocean depths down to 20,000 feet. The umbilical also acts as the handling line. Required I/O is 16 (12 plus 4 spares).</p> <p>[P40A / HY050 - SYNTHETIC LINES]: This line is used for lifting, mooring, towing, rigging, and in conjunction with the remotely operated vehicles at the salvage site. Required I/O is 5.</p> <p>[P40A / HY062 - ROV SONAR SYSTEMS]: 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. Total I/O is 8 (6 operational plus 2 spares).</p> <p>[P40A / HY116 - PORTABLE SUBMERSIBLE PUMPS]: The 6" hydraulic submersible salvage pump system is designed for high lift with high discharge pressure. The pumping system is packaged in containers for ease of shipment and handling at the casualty site. The pump with attached hoses can be lowered into flooded spaces through 12-1/2" or larger accesses or can be hand-carried into confined spaces. The system includes a hydraulic power unit, hose, and all ancillary equipment. Required I/O is 47.</p> <p>[P40A / HY136 - 30 KIP FADOSS]: The 30 KIP FADOSS is used to salvage objects from deep water. The primary function is to reduce the dynamic loads that are encountered due to ship motion. These systems will handle recovery of equipment up to a weight of 30,000 pounds. Required I/O 4.</p> <p>[P40A / HY131 - ROV HANDLING SYSTEM]: 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 I/O is 10 (5 operational and 5 spares).</p> <p>[P40A / HY140 - ROV CONTROL PACKAGE]: The ROV Control Package is used to control the various functions of the SWISS, DEEP DRONE, ORION, and CURV-21 ROVs. Required I/O is 6 (3 operational plus 3 spares).</p> <p>[P40A / HY142 - SALVAGE AIR COMPRESSOR]: Salvage Air Compressors are utilized to provide large quantities of compressed air for restoration of lost buoyancy. I/O is 6.</p> <p>[P40A / HY145 - COFFERDAM SYSTEM]: This system will contain a variety of cofferdams necessary to accomplish underwater repair tasks to hull plating, shafts, stern tubes and sea chests on several ship classes. The cofferdams are engineered structural habitats which provide a safe underwater dry environment for divers to work and require very little maintenance. Required I/O is 15.</p> <p>[P40A / HY146 - PROPELLER REPAIR KIT]: These kits will contain the tools necessary to repair minor propeller damage underwater. By accomplishing these repairs in-place, propeller removal and replacement can be avoided thereby saving maintenance funds and returning ships to service faster. Required I/O is 8.</p> <p>[P40A / HY147 - ROV TELEMETRY SYSTEM]: The ROV Telemetry System is the communication link between the surface controller and the vehicle. Required I/O is 6 (3 operational plus 3 spares).</p> <p>[P40A / HY153 - TENSIOMETERS]: 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 I/O is 66.</p> <p>[P40A / HY154 - WATER PURIFIERS]: Water Purifiers are capable of converting salty, brackish, or biologically polluted water into potable water. The systems are fully maritized for use aboard a ship of opportunity, and are complete with all necessary power sources, hoses, chemicals, and associated support equipment. Required I/O is 18.</p>		

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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 11: Ocean Engineering		<b>P-1 Line Item Nomenclature:</b> 1130 - Diving and Salvage Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b> 0204561N, 0204454N, 0204423N
<b>MDAP/MAIS Code(s):</b>		
<p>[P40A / HY155 - POWER GENERATORS]: They are used aboard a ship and shore-side to provide general purpose electrical power during salvage and debeaching 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 I/O is 25 (7 KW) and 22 (30 KW) for a total of 47.</p> <p>[P40A / HY156 - SALVAGE VANS]: These vans are modified ISO 8 ft x 8 ft x 20 ft shipping containers equipped to store and ship portable salvage equipment to a vessel of opportunity in times of National emergency and functions as a support van on station. Each van is complete with a humidity controlling device for prolonging equipment life during storage. The system includes all necessary rigging and handling equipment. Required I/O is 25.</p> <p>[P40A / HY158 - ROV PROPULSION SYSTEMS]: ROV propulsion systems provide main propulsion and control of remotely operated vehicles. These consist of electric and hydraulic thruster motors, thrusters, controllers, and interconnect cabling and power supplies. Required I/O is 12 (8 operational plus 4 spares).</p> <p>[P40A / HY164 - FLYAWAY FADOSS SYSTEM]: This system consists of lightweight motion compensators, winches, rigging jewelry, and lines for lifting heavy objects off the sea floor. All of the components are designed to be flown to the salvage site and loaded aboard ships of opportunity. Required I/O is 2.</p> <p>[P40A / HY166 - ROV TOOL PACKAGES]: 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, and ancillary end effectors. I/O is 1.</p> <p>[P40A / HY169 - UWSH POWER TOOLS]: These tools will replace the hydraulic tool sets designed and issued to Fleet divers in the 1970's with improved technology. This technology improvement will provide tools which are more environmentally compatible, offer greater power, lighter weight and reduced maintenance. I/O is 15.</p> <p>[P40A / HY184 - SALVAGE SUPPORT SYSTEMS]: 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 I/O is 10.</p> <p>[P40A / HY186 - SMART TOW SYSTEMS]: These 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. I/O is 6.</p> <p>[P40A / HY190 - VIDEO EQUIPMENT]: Underwater video equipment used by divers to perform detailed inspections of ship hulls and appendages. Equipment is used extensively throughout the Fleet. This equipment will replace aging systems currently in use throughout the Fleet. I/O is 20.</p> <p>[P40A / HY195 - UNDERWATER RIGGING SUPPORT SYSTEM]: General and special purpose rigging equipment designed for use in underwater ship repair applications. I/O - 10.</p> <p>[P40A / HY196 - UWSH SUBMARINE SUPPORT SYSTEM]: Special purpose underwater tools used by divers to perform routine and emergent repairs to all Classes of submarines. I/O - 16.</p> <p>[P40A / HY197 - UWSH PIERSIDE SUPPORT VANS]: Portable milvans and shippable containers outfitted with general and special purpose tools to support various underwater ship husbandry operations. I/O - 10</p> <p>[P40A / HY198 - UWSH SURFACE SHIP SUPPORT SYSTEMS]: Special purpose underwater tools used by divers to perform routine and emergent repairs to all Classes of surface ships. I/O - 30</p> <p>[P40A / HY200 - DEEP DRONE 21]: 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>		

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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 11: Ocean Engineering		<b>P-1 Line Item Nomenclature:</b> 1130 - Diving and Salvage Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b> 0204561N, 0204454N, 0204423N
<b>MDAP/MAIS Code(s):</b>		
<p>[P40A / HY201 - JETTING PUMPS]: 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 22.</p> <p>[P40A / HY202 - 300/400 AMP PORTABLE ELECTRIC WELDER]: 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 22.</p> <p>[P40A / HY203 - HYDRAULIC U/W TOOL KIT]: 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>[P40A / HY204 - 400 AMP WELDER - DIESEL]: 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 25.</p> <p>[P40A / HY205 - LIGHTING KIT SYSTEM]: System consists of extended 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 100-volt, single phase power source found at the salvage or pollution site. Required Inventory Objective I/O is 25.</p> <p>[P40A / HY206 - KERRIE CABLE UNDERWATER CUTTING SYSTEM]: 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. Required Inventory Objective I/O is 30.</p> <p>[P40A / HY215 LIGHTWEIGHT MOORING SYSTEM]: This is a lightweight and highly portable system for establishing a mooring in shallow to deep water. The system shall include a mooring leg consisting of anchors, chain, synthetic line and associated jewelry and fittings. Total I/O is 8.</p> <p>[P40A / HY216 - SALVAGE/BDR MATERIAL KIT]: This system is for emergency response to ship casualties and provides the necessary material to construct custom patches and cofferdams. The kit also includes tools to install the custom built items in place over the damaged hull sections. I/O is 25.</p> <p>[P40A / HY217 - SALVAGE LIFT BAGS (22K lbs)]: This system provides a buoyant force using compressed air to lift or support items in the water column. These Lift Bags are sized to provide a force of approximately 22,000 lbs. The I/O is 22.</p> <p>[P40A / HY218 SALVAGE LIFT BAGS (35 TONS)]: This system provides a buoyant force using compressed air to lift or support items in the water column. These Lift Bags are sized to provide a force of approximately 35 tons. The I/O is 16.</p> <p>[P40A / HY219 - PORTABLE SALVAGE CRANE]: A portable crane system for use on a vessel of opportunity to provide a lifting force during salvage operations. I/O is 4.</p> <p>[P40A / HY220 - AUV SEARCH SYSTEM]: The AUV Search System will survey the ocean floor using a suite of sensors to locate and identify targets of interest. The sensors include Side Scan Sonar, multibeam, sub bottom profile, and still photo. The complete system includes a vehicle, sensor suite, A-frame handling system, and operations/shipping container. I/O is 1.</p>		



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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 11: Ocean Engineering

**P-1 Line Item Nomenclature:**  
1130 - Diving and Salvage Equipment

**Aggregated Item Name:**  
Diving and Salvage Equipment

Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) DIVING (N97)</b>																				
† 1.1) HY106 - LIGHTWEIGHT DIVE SYSTEMS	A		1,424K	2	2.848	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.2) HY107 - PORTABLE RECOMPRESSION CHAMBERS	A		540,000.00	1	0.540	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
† 1.3) HY123 - FLY AWAY DIVE SYSTEMS III HP COMPOSITE FLASK REPLACEMENT	A		292,666.67	24	7.024	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
† 1.4) HY132 - STANDARD NAVY DOUBLE LOCK RECOMPRESSION CHAMBER (SNDL)	A		2,454K	2	4.907	-	-	-	1,259K	1	1.259	3,209K	1	3.209	-	-	-	3,209K	1	3.209
† 1.5) HY176 - HP AIR COMPRESSORS	A		27,000.00	11	0.297	-	-	-	-	-	-	68,000.00	2	0.136	-	-	-	68,000.00	2	0.136
† 1.6) HY177 - AIR PURIFICATION UNITS	A		546,000.00	1	0.546	-	-	-	-	-	-	33,400.00	5	0.167	-	-	-	33,400.00	5	0.167
† 1.7) HY179 - NAVY EXPERIMENTAL DIVING UNIT	A		1,678K	2	3.357	448,000.00	1	0.448	768,000.00	1	0.768	556,000.00	1	0.556	-	-	-	556,000.00	1	0.556
† 1.8) HY192 - THERMAL DIVING SUITS	A		7,700.00	10	0.077	-	-	-	-	-	-	5,250.00	12	0.063	-	-	-	5,250.00	12	0.063
† 1.9) HY193 - SURFACE SUPPLIED DIVING HELMET	A		40,500.00	12	0.486	-	-	-	6,620.00	50	0.331	6,766.67	30	0.203	-	-	-	6,766.67	30	0.203
† 1.10) HY194 - CONTAMINATED WATER DIVING EQUIPMENT	A		446,000.00	1	0.446	-	-	-	-	-	-	938,000.00	1	0.938	-	-	-	938,000.00	1	0.938
† 1.11) HY199 - NAVY DIVE COMPUTER	A		2,838.71	186	0.528	1,037.50	160	0.166	1,071.43	126	0.135	1,088.52	305	0.332	-	-	-	1,088.52	305	0.332
† 1.12) HY207 - EXTREME LIGHTWEIGHT DIVING SYSTEM (XLDS)	A		-	-	-	-	-	-	41,000.00	1	0.041	41,500.00	2	0.083	-	-	-	41,500.00	2	0.083
1.13) HY208 - IMPROVED TRANSPORTABLE RECOMPRESSION CHAMPBER SYSTEMS (I-TRCS)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 11: Ocean Engineering	<b>P-1 Line Item Nomenclature:</b> 1130 - Diving and Salvage Equipment	<b>Aggregated Item Name:</b> Diving and Salvage Equipment
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Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
† 1.14) HY209 - OXYGEN REGULATING CONSOLE ASSEMBLY (ORCA)	A		-	-	-	-	-	-	-	-	38,000.00	1	0.038	-	-	-	38,000.00	1	0.038	
† 1.15) HY210 - COMPACT AIR SUPPLY RACK ASSEMBLY (CASRA)	A		-	-	-	180,000.00	2	0.360	-	-	-	188,000.00	1	0.188	-	-	-	188,000.00	1	0.188
† 1.16) HY211 - COMPACT OXYGEN SUPPLY RACK ASSEMBLY (COSRA)	A		-	-	-	180,000.00	2	0.360	-	-	-	188,000.00	1	0.188	-	-	-	188,000.00	1	0.188
† 1.17) HY212 - FLY AWAY DIVE SYSTEMS (FADS) IV CONTROL CONSOLE ASSEMBLY (CCA)	A		-	-	-	-	-	-	114,500.00	2	0.229	117,000.00	1	0.117	-	-	-	117,000.00	1	0.117
† 1.18) HY213 - HP COMPOSITE FLASK REPLACEMENT	A		-	-	-	4,472.22	72	0.322	4,564.52	124	0.566	4,666.67	81	0.378	-	-	-	4,666.67	81	0.378
1.19) HY214 - CONTAMINATED WATER DIVING (CWD) SURFACE DECONTAMINATION EQUIP	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal 1) DIVING (N97)</b>					21.056			1.656			3.329		6.596			-			6.596	
<b>2) DIVING AND/OR SALVAGE (N95)</b>																				
† 2.1) HY132 - STANDARD NAVY DOUBLE LOCK RECOMPRESSION CHAMBER (SNDL)	A		1,357K	1	1.357	1,497K	2	2.994	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal 2) DIVING AND/OR SALVAGE (N95)</b>					1.357			2.994			-		-			-			-	
<b>3) SALVAGE (N9I)</b>																				
† 3.1) HY016 - DECK CAPSTANS	A		27,666.67	3	0.083	28,333.33	3	0.085	28,750.00	4	0.115	37,000.00	1	0.037	-	-	-	37,000.00	1	0.037
3.2) HY043 - OCEANOGRAPHIC UMBILICAL	A		821,000.00	1	0.821	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.3) HY050 - SYNTHETIC LINES	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.4) HY062 - ROV SONAR SYSTEMS	A		186,000.00	1	0.186	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 11: Ocean Engineering

**P-1 Line Item Nomenclature:**  
1130 - Diving and Salvage Equipment

**Aggregated Item Name:**  
Diving and Salvage Equipment

Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
† 3.5) HY116 - PORTABLE SUBMERSIBLE PUMPS	A		267,000.00	3	0.801	167,000.00	5	0.835	186,000.00	2	0.372	98,000.00	4	0.392	-	-	-	98,000.00	4	0.392
3.6) HY136 - 30 KIP FADOSS	A		362,000.00	1	0.362	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.7) HY131 - ROV HANDLING SYSTEM	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 3.8) HY140 - ROV CONTROL PACKAGE	A		-	-	-	-	-	-	991,000.00	1	0.991	-	-	-	-	-	-	-	-	-
† 3.9) HY142 - SALVAGE AIR COMPRESSOR	A		35,000.00	2	0.070	36,000.00	2	0.072	-	-	-	-	-	-	-	-	-	-	-	-
† 3.10) HY145 - COFFERDAM SYSTEM	A		879,500.00	2	1.759	-	-	-	-	-	-	135,000.00	1	0.135	-	-	-	135,000.00	1	0.135
† 3.11) HY146 - PROPELLER REPAIR KIT	A		421,000.00	2	0.842	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 3.12) HY147 - ROV TELEMETRY SYSTEM	A		-	-	-	398,000.00	1	0.398	-	-	-	-	-	-	-	-	-	-	-	-
† 3.13) HY153 - TENSIO METERS	A		48,000.00	1	0.048	12,166.67	6	0.073	12,500.00	4	0.050	-	-	-	-	-	-	-	-	-
3.14) HY154 - WATER PURIFIERS	A		140,000.00	1	0.140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 3.15) HY155 - POWER GENERATORS	A		17,666.67	6	0.106	7,100.00	10	0.071	7,000.00	2	0.014	-	-	-	-	-	-	-	-	-
† 3.16) HY156 - SALVAGE VANS	A		120,500.00	2	0.241	122,000.00	1	0.122	124,000.00	1	0.124	141,000.00	1	0.141	-	-	-	141,000.00	1	0.141
† 3.17) HY158 - ROV PROPULSION SYSTEMS	A		-	-	-	596,000.00	1	0.596	-	-	-	-	-	-	-	-	-	-	-	-
† 3.18) HY164 - FLYAWAY FADOSS SYSTEM	A		534,000.00	1	0.534	-	-	-	751,000.00	1	0.751	-	-	-	-	-	-	-	-	-
3.19) HY166 - ROV TOOL PACKAGES	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.20) HY169 - UWSH POWER TOOLS	A		145,000.00	1	0.145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 3.21) HY184 - SALVAGE SUPPORT SYSTEMS	A		1,318K	1	1.318	147,000.00	2	0.294	147,500.00	2	0.295	180,500.00	2	0.361	-	-	-	180,500.00	2	0.361
† 3.22) HY186 - SMART TOW SYSTEMS	A		-	-	-	36,000.00	1	0.036	36,000.00	1	0.036	-	-	-	-	-	-	-	-	-

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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 11: Ocean Engineering

**P-1 Line Item Nomenclature:**  
1130 - Diving and Salvage Equipment

**Aggregated Item Name:**  
Diving and Salvage Equipment

Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
3.23) HY190 - VIDEO EQUIPMENT	A		257,000.00	1	0.257	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
† 3.24) HY195 - UNDERWATER RIGGING SUPPORT SYSTEM	A		525,000.00	2	1.050	-	-	-	-	-	299,000.00	1	0.299	-	-	-	299,000.00	1	0.299	
† 3.25) HY196 - UWSH SUBMARINE SUPPORT SYSTEM	A		775,333.33	3	2.326	412,000.00	2	0.824	400,000.00	2	0.800	-	-	-	-	-	-	-	-	
† 3.26) HY197 - UWSH PIERSIDE SUPPORT VANS	A		577,000.00	1	0.577	-	-	-	-	-	200,000.00	1	0.200	-	-	-	200,000.00	1	0.200	
† 3.27) HY198 - UWSH SURFACE SHIP SUPPORT SYSTEMS	A		-	-	-	157,500.00	6	0.945	199,142.86	7	1.394	327,000.00	1	0.327	-	-	-	327,000.00	1	0.327
† 3.28) HY200 - DEEP DRONE 21	A		3,072K	1	3.072	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
† 3.29) HY201 - JETTING PUMPS	A		161,000.00	1	0.161	164,000.00	1	0.164	166,666.67	3	0.500	-	-	-	-	-	-	-	-	
† 3.30) HY202 - 300/400 AMP PORTABLE ELECTRIC WELDER	A		7,000.00	4	0.028	7,000.00	4	0.028	7,250.00	4	0.029	-	-	-	-	-	-	-	-	
† 3.31) HY203 - HYDRAULIC U/W TOOL KIT	A		45,000.00	2	0.090	45,750.00	4	0.183	46,500.00	4	0.186	58,400.00	5	0.292	-	-	58,400.00	5	0.292	
† 3.32) HY204 - 400 AMP WELDER - DIESEL	A		32,000.00	2	0.064	32,500.00	6	0.195	-	-	-	-	-	-	-	-	-	-	-	
† 3.33) HY205 - LIGHTING KIT SYSTEM	A		12,000.00	2	0.024	12,166.67	6	0.073	12,000.00	1	0.012	-	-	-	-	-	-	-	-	
3.34) HY206 - KERRIE CABLE UNDERWATER CUTTING SYSTEM	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3.35) HY215 LIGHTWEIGHT MOORING SYSTEM	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3.36) HY216 - SALVAGE/BDR MATERIAL KIT	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3.37) HY217 - SALVAGE LIFT BAGS (22K lbs)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3.38) HY218 SALVAGE LIFT BAGS (35 TONS)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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<b>Exhibit P-40A, Budget Item Justification For Aggregated Items:</b> PB 2014 Navy																	<b>Date:</b> April 2013			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 11: Ocean Engineering						<b>P-1 Line Item Nomenclature:</b> 1130 - Diving and Salvage Equipment						<b>Aggregated Item Name:</b> Diving and Salvage Equipment								
Items († indicates the presence of a P-5A)	ID CD	MDAP/ MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
3.39) HY219 - PORTABLE SALVAGE CRANE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3.40) HY220 - AUV SEARCH SYSTEM	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal 3) SALVAGE (N9I)</i>					15.105			4.994			5.669			2.184			-		2.184	
<b>Total</b>					<b>37.518</b>			<b>9.644</b>			<b>8.998</b>			<b>8.780</b>			<b>-</b>		<b>8.780</b>	

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Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Navy										Date: April 2013		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 11: Ocean Engineering				P-1 Line Item Nomenclature: 1130 - Diving and Salvage Equipment				Aggregated Item Name: Diving and Salvage Equipment				
Items	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>1) DIVING (N97)</b>												
1.1) HY106 - LIGHTWEIGHT DIVE SYSTEMS		2011	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Jan 2011	Jan 2012	1	961,000.00	Y		
1.3) HY123 - FLY AWAY DIVE SYSTEMS III HP COMPOSITE FLASK REPLACEMENT		2011	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Sep 2011	Sep 2012	23	5,521.74	Y		
1.4) HY132 - STANDARD NAVY DOUBLE LOCK RECOMPRESSION CHAMBER (SNDL)		2011	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Aug 2011	Aug 2012	1	1,410K	Y		
1.4) HY132 - STANDARD NAVY DOUBLE LOCK RECOMPRESSION CHAMBER (SNDL)		2013	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2013	Apr 2014	1	1,259K	Y		
1.5) HY176 - HP AIR COMPRESSORS		2011	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Sep 2011	Sep 2012	1	60,000.00	Y		
1.5) HY176 - HP AIR COMPRESSORS		2014	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2014	Apr 2015	2	68,000.00	N		
1.6) HY177 - AIR PURIFICATION UNITS		2014	TBD / TBD	C / CPAF	WASHINGTON, DC	Apr 2014	Apr 2015	5	33,400.00	N		
1.7) HY179 - NAVY EXPERIMENTAL DIVING UNIT		2011	Navy Experimental Diving Unit / Panama City, FL	Various	WASHINGTON, DC	Apr 2011	Apr 2012	1	355,000.00	Y		
1.7) HY179 - NAVY EXPERIMENTAL DIVING UNIT		2012	Unknown / TBD	TBD	WASHINGTON, DC	Apr 2013	Apr 2014	1	448,000.00	Y		
1.7) HY179 - NAVY EXPERIMENTAL DIVING UNIT		2013	Unknown / TBD	TBD	WASHINGTON, DC	Apr 2013	Apr 2014	1	768,000.00	Y		
1.7) HY179 - NAVY EXPERIMENTAL DIVING UNIT		2014	Unknown / TBD	TBD	WASHINGTON, DC	Apr 2014	Apr 2015	1	556,000.00	Y		
1.8) HY192 - THERMAL DIVING SUITS		2011	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Sep 2011	Sep 2012	9	2,111.11	Y		
1.8) HY192 - THERMAL DIVING SUITS		2014	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2014	Apr 2015	12	5,250.00	N		
1.9) HY193 - SURFACE SUPPLIED DIVING HELMET		2011	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Sep 2011	Sep 2012	11	6,363.64	Y		
1.9) HY193 - SURFACE SUPPLIED DIVING HELMET		2013	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2013	Apr 2014	50	6,620.00	Y		
1.9) HY193 - SURFACE SUPPLIED DIVING HELMET		2014	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2014	Apr 2015	30	6,766.67	N		

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**Exhibit P-5A, Budget Procurement History and Planning:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 11: Ocean Engineering	<b>P-1 Line Item Nomenclature:</b> 1130 - Diving and Salvage Equipment	<b>Aggregated Item Name:</b> Diving and Salvage Equipment
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Items	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
1.10) HY194 - CONTAMINATED WATER DIVING EQUIPMENT		2014	TBD / TBD	C / CPAF	WASHINGTON, DC	Apr 2014	Apr 2015	1	938,000.00	N		
1.11) HY199 - NAVY DIVE COMPUTER		2011	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Sep 2011	Sep 2012	185	1,000.00	Y		
1.11) HY199 - NAVY DIVE COMPUTER		2012	Cochran Undersea Technologies / Richardson, TX	C / CPAF	Richardson, TX	Aug 2012	Aug 2012	160	1,037.50	Y		
1.11) HY199 - NAVY DIVE COMPUTER		2013	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2013	Apr 2014	126	1,071.43	Y		
1.11) HY199 - NAVY DIVE COMPUTER		2014	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2014	Apr 2015	305	1,088.52	Y		
1.12) HY207 - EXTREME LIGHTWEIGHT DIVING SYSTEM (XLDS)		2013	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2013	Apr 2014	1	41,000.00	Y		
1.12) HY207 - EXTREME LIGHTWEIGHT DIVING SYSTEM (XLDS)		2014	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2014	Apr 2015	2	41,500.00	N		
1.14) HY209 - OXYGEN REGULATING CONSOLE ASSEMBLY (ORCA)		2014	TBD / TBD	C / CPAF	WASHINGTON, DC	Apr 2014	Apr 2015	1	38,000.00	N		
1.15) HY210 - COMPACT AIR SUPPLY RACK ASSEMBLY (CASRA)		2012	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Nov 2012	Nov 2013	2	180,000.00	Y		
1.15) HY210 - COMPACT AIR SUPPLY RACK ASSEMBLY (CASRA)		2014	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2014	Apr 2015	1	188,000.00	Y		
1.16) HY211 - COMPACT OXYGEN SUPPLY RACK ASSEMBLY (COSRA)		2012	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2013	Apr 2014	2	180,000.00	Y		
1.16) HY211 - COMPACT OXYGEN SUPPLY RACK ASSEMBLY (COSRA)		2014	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2014	Apr 2015	1	188,000.00	Y		
1.17) HY212 - FLY AWAY DIVE SYSTEMS (FADS) IV CONTROL CONSOLE ASSEMBLY (CCA)		2013	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2013	Apr 2014	2	114,500.00	Y		
1.17) HY212 - FLY AWAY DIVE SYSTEMS (FADS) IV CONTROL CONSOLE ASSEMBLY (CCA)		2014	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2014	Apr 2015	1	117,000.00	N		
1.18) HY213 - HP COMPOSITE FLASK REPLACEMENT		2012	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Nov 2012	Nov 2013	72	4,472.22	Y		

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Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Navy										Date: April 2013		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 11: Ocean Engineering				P-1 Line Item Nomenclature: 1130 - Diving and Salvage Equipment				Aggregated Item Name: Diving and Salvage Equipment				
Items	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
1.18) HY213 - HP COMPOSITE FLASK REPLACEMENT		2013	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2013	Apr 2014	124	4,564.52	Y		
1.18) HY213 - HP COMPOSITE FLASK REPLACEMENT		2014	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2014	Apr 2015	81	4,666.67	Y		
<b>2) DIVING AND/OR SALVAGE (N95)</b>												
2.1) HY132 - STANDARD NAVY DOUBLE LOCK RECOMPRESSION CHAMBER (SNDL)		2011	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Aug 2011	Aug 2012	1	1,357K	Y		
2.1) HY132 - STANDARD NAVY DOUBLE LOCK RECOMPRESSION CHAMBER (SNDL)		2012	Unknown / TBD	C / CPAF	WASHINGTON, DC	Aug 2012	Aug 2013	2	1,497K	Y		
<b>3) SALVAGE (N9I)</b>												
3.1) HY016 - DECK CAPSTANS		2011	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Jul 2011	Jul 2012	3	27,666.67	Y		
3.1) HY016 - DECK CAPSTANS		2012	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Nov 2012	Nov 2013	3	28,333.33	Y		
3.1) HY016 - DECK CAPSTANS		2013	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2013	Apr 2014	4	28,750.00	Y		
3.1) HY016 - DECK CAPSTANS		2014	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2014	Apr 2015	1	37,000.00	Y		
3.5) HY116 - PORTABLE SUBMERSIBLE PUMPS		2011	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Jul 2011	Jul 2012	2	153,500.00	Y		
3.5) HY116 - PORTABLE SUBMERSIBLE PUMPS		2012	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Nov 2012	Nov 2013	5	167,000.00	Y		
3.5) HY116 - PORTABLE SUBMERSIBLE PUMPS		2013	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2013	Apr 2014	2	186,000.00	Y		
3.5) HY116 - PORTABLE SUBMERSIBLE PUMPS		2014	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2014	Apr 2015	4	98,000.00	Y		
3.8) HY140 - ROV CONTROL PACKAGE		2013	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2013	Apr 2014	1	991,000.00	Y		
3.9) HY142 - SALVAGE AIR COMPRESSOR		2011	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Jul 2011	Jul 2012	2	35,000.00	Y		
3.9) HY142 - SALVAGE AIR COMPRESSOR		2012	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2013	Apr 2014	2	36,000.00	Y		
3.10) HY145 - COFFERDAM SYSTEM		2011	PHOENIX INTL / LARGO MD	C / CPAF	WASHINGTON, DC	Aug 2011	Aug 2012	1	150,000.00	Y		

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**Exhibit P-5A, Budget Procurement History and Planning:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 11: Ocean Engineering	<b>P-1 Line Item Nomenclature:</b> 1130 - Diving and Salvage Equipment	<b>Aggregated Item Name:</b> Diving and Salvage Equipment
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Items	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
3.10) HY145 - COFFERDAM SYSTEM		2014	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2014	Apr 2015	1	135,000.00	N		
3.11) HY146 - PROPELLER REPAIR KIT		2011	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Jun 2011	Jun 2012	1	124,000.00	Y		
3.12) HY147 - ROV TELEMETRY SYSTEM		2012	PHOENIX INTL / LARGO MD	C / CPAF	WASHINGTON, DC	May 2012	May 2013	1	398,000.00	Y		
3.13) HY153 - TENSIO METERS		2012	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Nov 2012	Nov 2013	6	12,166.67	Y		
3.13) HY153 - TENSIO METERS		2013	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2013	Apr 2014	4	12,500.00	Y		
3.15) HY155 - POWER GENERATORS		2011	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Jul 2011	Jul 2012	5	7,000.00	Y		
3.15) HY155 - POWER GENERATORS		2012	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2013	Apr 2014	10	7,100.00	Y		
3.15) HY155 - POWER GENERATORS		2013	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2013	Apr 2014	2	7,000.00	Y		
3.16) HY156 - SALVAGE VANS		2011	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Jun 2011	Jun 2012	2	120,500.00	Y		
3.16) HY156 - SALVAGE VANS		2012	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Nov 2012	Nov 2013	1	122,000.00	Y		
3.16) HY156 - SALVAGE VANS		2013	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2013	Apr 2014	1	124,000.00	Y		
3.16) HY156 - SALVAGE VANS		2014	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2014	Apr 2015	1	141,000.00	Y		
3.17) HY158 - ROV PROPULSION SYSTEMS		2012	PHOENIX INTL / LARGO MD	C / CPAF	WASHINGTON, DC	May 2012	May 2013	1	596,000.00	Y		
3.18) HY164 - FLYAWAY FADOSS SYSTEM		2013	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2013	Apr 2014	1	751,000.00	Y		
3.21) HY184 - SALVAGE SUPPORT SYSTEMS		2012	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Nov 2012	Nov 2013	2	147,000.00	Y		
3.21) HY184 - SALVAGE SUPPORT SYSTEMS		2013	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2013	Apr 2014	2	147,500.00	Y		
3.21) HY184 - SALVAGE SUPPORT SYSTEMS		2014	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2014	Apr 2015	2	180,500.00	Y		
3.22) HY186 - SMART TOW SYSTEMS		2012	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2013	Apr 2014	1	36,000.00	Y		
3.22) HY186 - SMART TOW SYSTEMS		2013	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2013	Apr 2014	1	36,000.00	Y		

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**Exhibit P-5A, Budget Procurement History and Planning:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 11: Ocean Engineering	<b>P-1 Line Item Nomenclature:</b> 1130 - Diving and Salvage Equipment	<b>Aggregated Item Name:</b> Diving and Salvage Equipment
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Items	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
3.24) HY195 - UNDERWATER RIGGING SUPPORT SYSTEM		2011	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Jun 2011	Jun 2012	1	449,000.00	Y		
3.24) HY195 - UNDERWATER RIGGING SUPPORT SYSTEM		2014	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2014	Apr 2015	1	299,000.00	N		
3.25) HY196 - UWSH SUBMARINE SUPPORT SYSTEM		2011	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Aug 2011	Aug 2012	2	365,000.00	Y		
3.25) HY196 - UWSH SUBMARINE SUPPORT SYSTEM		2012	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Nov 2012	Nov 2013	2	412,000.00	Y		
3.25) HY196 - UWSH SUBMARINE SUPPORT SYSTEM		2013	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2013	Apr 2014	2	400,000.00	Y		
3.26) HY197 - UWSH PIERSIDE SUPPORT VANS		2014	TBD / TBD	C / CPAF	WASHINGTON, DC	Apr 2014	Apr 2015	1	200,000.00	Y		
3.27) HY198 - UWSH SURFACE SHIP SUPPORT SYSTEMS		2012	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Sep 2012	Sep 2013	6	157,500.00	Y		
3.27) HY198 - UWSH SURFACE SHIP SUPPORT SYSTEMS		2013	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Dec 2012	Dec 2013	7	199,142.86	Y		
3.27) HY198 - UWSH SURFACE SHIP SUPPORT SYSTEMS		2014	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2014	Apr 2015	1	327,000.00	Y		
3.28) HY200 - DEEP DRONE 21		2011	PHOENIX INTL / LARGO MD	C / CPAF	WASHINGTON, DC	Jul 2011	Jul 2012	1	3,072K	Y		
3.29) HY201 - JETTING PUMPS		2011	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Jul 2011	Jul 2012	1	161,000.00	Y		
3.29) HY201 - JETTING PUMPS		2012	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Nov 2012	Nov 2013	1	164,000.00	Y		
3.29) HY201 - JETTING PUMPS		2013	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2013	Apr 2014	3	166,666.67	Y		
3.30) HY202 - 300/400 AMP PORTABLE ELECTRIC WELDER		2011	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Jul 2011	Jul 2012	4	7,000.00	Y		
3.30) HY202 - 300/400 AMP PORTABLE ELECTRIC WELDER		2012	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Nov 2012	Nov 2013	4	7,000.00	Y		
3.30) HY202 - 300/400 AMP PORTABLE ELECTRIC WELDER		2013	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2013	Apr 2014	4	7,250.00	Y		
3.31) HY203 - HYDRAULIC U/W TOOL KIT		2011	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Jul 2011	Jul 2012	2	45,000.00	Y		
3.31) HY203 - HYDRAULIC U/W TOOL KIT		2012	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Nov 2012	Nov 2013	4	45,750.00	Y		
3.31) HY203 - HYDRAULIC U/W TOOL KIT		2013	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2013	Apr 2014	4	46,500.00	Y		

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**Exhibit P-5A, Budget Procurement History and Planning:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 11: Ocean Engineering	<b>P-1 Line Item Nomenclature:</b> 1130 - Diving and Salvage Equipment	<b>Aggregated Item Name:</b> Diving and Salvage Equipment
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Items	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
3.31) HY203 - HYDRAULIC U/W TOOL KIT		2014	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2014	Apr 2015	5	58,400.00	Y		
3.32) HY204 - 400 AMP WELDER - DIESEL		2011	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Jul 2011	Jul 2012	2	32,000.00	Y		
3.32) HY204 - 400 AMP WELDER - DIESEL		2012	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Nov 2012	Nov 2013	6	32,500.00	Y		
3.33) HY205 - LIGHTING KIT SYSTEM		2011	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Jul 2011	Jul 2012	2	12,000.00	Y		
3.33) HY205 - LIGHTING KIT SYSTEM		2012	GLOBAL PCCI / IRVINE CA	C / CPAF	WASHINGTON, DC	Nov 2012	Nov 2013	6	12,166.67	Y		
3.33) HY205 - LIGHTING KIT SYSTEM		2013	Unknown / TBD	C / CPAF	WASHINGTON, DC	Apr 2013	Apr 2014	1	12,000.00	Y		

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 12: Small Boats	<b>P-1 Line Item Nomenclature:</b> 1210 - Standard Boats
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	231.573	37.253	30.131	36.452	-	36.452	45.724	43.779	43.253	43.959	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	231.573	37.253	30.131	36.452	-	36.452	45.724	43.779	43.253	43.959	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>231.573</b>	<b>37.253</b>	<b>30.131</b>	<b>36.452</b>	<b>-</b>	<b>36.452</b>	<b>45.724</b>	<b>43.779</b>	<b>43.253</b>	<b>43.959</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(Units in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(Units in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Naval Sea Systems Command (NAVSEA) -- Boats are procured to fill allowances established by CNO and NAVSEA and to replace boats now in service which are beyond economical repair at shore activities and aboard ships. Total inventory objectives change based on Fleet requirements.

**H0001 BASE OPERATING FORCES**

Force Protection Boat (Small) - Light gasoline twin outboard engine powered (up to 150 hp each) aluminum boats from 7 to 8.2 meters (24 to 27 ft) in length used primarily for fleet force protection, maritime interdiction, law enforcement operations, at Naval activities and adjacent ports and waterways duties. Can operate in areas where the environment (sea states/climatology) does not present a significant challenge. Service life is 7 years.

CNIC Force Protection Boat (Small) - Gasoline twin outboard engine aluminum boats approximately 8.5 meters (27 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 boats operate primarily at Naval activities in sheltered harbors and waterways. Service life is 7 years.

CNIC Force Protection Boat (Medium) - Gasoline outboard engine powered aluminum boats approximately 10 meters (33 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) is significant enough to necessitate the larger boat and resultant larger engines to meet the performance/operational requirements. Service life is 7 years.

CNIC Force Protection Boat (Large) - Gasoline twin outboard engine powered aluminum boats approximately 11 meters (36 ft.) in length with a wide beam 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) necessitates a larger boat for dependability. Service life is 7 years.

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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 12: Small Boats		<b>P-1 Line Item Nomenclature:</b> 1210 - Standard Boats
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
<b>MDAP/MAIS Code(s):</b>		
<p>CNIC Workboat (Medium) - Diesel inboard-engine powered steel boats up to approximately 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, line handling, harbor cleaning, 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 Workboat (Medium) is capable of performing operations in areas where the operating environment (sea states/climatology) is not significant enough to necessitate the larger boat, but includes the capabilities necessary to meet operational requirements. Service life is 20 years.</p> <p>CNIC Workboat (Large) - Diesel inboard-engine powered steel boats over approximately 11 meters (36 ft) in length used primarily for 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 security barrier tending. Habitability, maneuverability and bollard pull power are commensurate with operational requirements associated with large sized vessel assist (i.e., ships, derricks, etc.). The Workboat (Large) is needed for operations in areas where the operating environment (including sea states/climatology) is significant enough to necessitate the larger boat and include the capabilities necessary to meet operational requirements. Service life is 25 years.</p> <p>H0002 AMPHIBIOUS ASSAULT SHIPS</p> <p>11M (36ft) Rigid Inflatable Boat (RIB) - Carried as a ship's boat or assigned to a shore activity to perform a variety of operations including personnel and light cargo transfer, anchorage administration Anti-Terrorism/Force Protection (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.</p> <p>H0003 EXPLOSIVE ORDNANCE DISPOSAL FORCES</p> <p>Explosive Ordnance Disposal (EOD) Support Craft (RIB) - Used for area search, MK 5 and MK 16 Underwater Breathing Apparatus (UBA)/Diving Training, Mammal Operations, Ordnance/mine recovery, parachute insertion support and Command and Control. Service life is 10 years.</p> <p>SPAWAR 11M (36ft) EOD Type RIB - The 11m RIBs are required to support the emergent establishment of an enduring MK 18 unmanned underwater vehicle family of systems capability for near term operational missions in the shallow water and very shallow water environments in the Fifth Fleet area of responsibility. Operational missions include Intelligence Preparation of the Operational Environment/ Mine Countermeasure Missions. Service life is 7-10 years.</p> <p>H0004 NAVAL SPECIAL WARFARE</p> <p>NSW Short Range Support Craft - Used in support of combat swimmer-diver training evolutions and the Special Warfare Combatant Craft (SWCC) Basic Crewman Training curriculum. Service life is 10 years.</p> <p>NSW Long Range Support Craft - SEAL combat swimmer/SEAL Delivery Vehicle (SDV)/surface swimmer safety craft for offshore/open ocean training support. Provides transportation to/from training areas, dive supervisor/event officer-in-charge/corpsman safety support platform and injured diver/swimmer egress platform for Naval Special Warfare. Service life is 10 years.</p> <p>Visit, Board, Search, and Seizure (VBSS) Craft - Provide operational commander a capability to conduct VBSS and Maritime Interception Operations (MIO) from an Afloat Staging Base in conjunction with an overwatch craft and other friendly forces. Service life is 7 years.</p> <p>H0005 RIVERINE ACTIVITIES</p> <p>Riverine Multi-Mission Craft - Provides the Navy the ability to conduct shaping and stability (Phase 0) operations, maritime security and additional tasks related to the Overseas Contingency Operations (OCO) on inland waterways. Service life is 8 years.</p>		

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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 12: Small Boats		<b>P-1 Line Item Nomenclature:</b> 1210 - Standard Boats
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
<b>MDAP/MAIS Code(s):</b>		
<p>MK VI Patrol Boat - Naval Expeditionary 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 MK VI 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 marshaling areas, offshore economic infrastructure Gulf Oil Platforms (GOPLATs), High-Value Asset (HVA) shipping escort, over watch 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>H0006 SUPPORT FORCES</p> <p>7M (24ft) Rigid Inflatable Boat (RIB) - Diesel powered, primarily used as ship's lifeboats, search and rescue boats, liberty boats, and for general transportation on auxiliaries, combatants, carriers, amphibious, and shore activities. Also used for Anti-Terrorism/Force Protection (AT/FP) and Maritime Interdiction Operation/Vessel Boarding Search and Seizure (MIO/VBSS) operations. Service life is 12 years.</p> <p>H0007 FLEET LOGISTICS SUPPORT</p> <p>7M (24ft) Rigid Inflatable Boat (RIB) - Diesel powered, primarily used as ship's lifeboats, search and rescue boats, liberty boats, and for general transportation on auxiliaries, combatants, carriers, amphibious, and shore activities. Also used for Anti-Terrorism/Force Protection (AT/FP) and Maritime Interdiction Operation/Vessel Boarding Search and Seizure (MIO/VBSS) operations. Service life is 12 years.</p> <p>H0008 NAVAL COASTAL WARFARE</p> <p>Patrol Boat (small) - Light gasoline twin outboard engine powered (up to 150 hp each) aluminum boats from 7 to 8.2 meters (24 to 27 ft) in length used primarily for fleet force protection, maritime interdiction, law enforcement operations, at Naval activities and adjacent ports and waterways duties. Can operate in areas where the environment (sea states/climatology) does not present a significant challenge. Service life is 7 years.</p> <p>Patrol Boat (Large) - Twin diesel engine powered aluminum boats over 9 meters (30 ft) in length used primarily for fleet force protection, maritime interdiction, law enforcement operations, at Naval activities and adjacent ports and waterways duties. Needed in areas where the environment (sea states/climatology) necessitates a larger boat for dependability. Too heavy to meet the performance/operational requirements with outboard engines. Service life is 7 years.</p> <p>H0009 WARFARE INTEGRATION</p> <p>Dive Boat Replacement - 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. Aluminum hull from 50 to 60 ft, walkthrough cabin, seating for coxswain &amp; navigator, bench seating for four passengers, bits forward &amp; aft, engine guard rail, dive door (stbd), certified hoisting fittings &amp; hoisting sling. Cabin light, sliding windows, wiper assembly, heater, Very High Frequency (VHF) radio w/hailer, spotlight, electric bilge pump, battery charger, spare parts, aluminum trailer w/pintle hitch. Service life: 15-20 years.</p> <p>H0010 POLLUTION CONTROL EQUIPMENT</p> <p>Oilboom Platform - 30' Boom Platform (BP) Boat used for Oil Spill Response operations, working in conjunction with 25ft UBs and Rapid Response Skimmers (RRS). Typical mission requires UB and BP to sprint to the oil spill location ahead of the RRS. After spill assessment, 24" response boom (aboard BP) is tied off to UB, which is used to payout/deploy boom to surround spill while the RRS recovers the oil. BP crew delivers and unravels the boom during oil skimming operations. Typical mission duration is 3-8 hours. Service life is 10 years.</p>		

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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 12: Small Boats		<b>P-1 Line Item Nomenclature:</b> 1210 - Standard Boats
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
<b>MDAP/MAIS Code(s):</b>		
<p>Utility Boats - 25' Utility Boats (UB) used for Oil Spill Response operations, working in conjunction with Boom Platforms (BPs) and Rapid Response Skimmers (RRS). Typical mission requires UB and BP to sprint to the oil spill location ahead of the RRS. After spill assessment, 24" response boom (aboard BP) is tied off to UB, which is used to payout/deploy boom to surround spill while the RRS recovers the oil. UB crew tends boom during oil skimming operations, accessing boom over low gunwales or via dive door on UB. Typical mission duration is 3-8 hours. Service life is 10 years.</p> <p>Rapid Response Skimmers - Rapid Response Skimmers (RRS) used for Oil Spill Response operations, working in conjunction with Boom Platforms (BPs) and Utility Boats (UBs). Typical mission requires UB and BP to sprint to the oil spill location ahead of the RRS. After spill assessment, 24" response boom (aboard BP) is tied off to UB, which is used to payout/deploy boom to surround spill while the RRS recovers the oil. The RRS "skims" the oil off of the top of the water and holds it in an onboard storage container for proper disposal and processing. Typical mission duration is 3-24 hours. Service life is 10 years.</p> <p>H0830 PRODUCTION ENGINEERING</p> <p>Production Engineering funds are used for engineering and technical support of boat and combatant craft acquisition and the development of integrated logistics support documentation to include technical data packages, provisioning, technical manuals, preventative maintenance documents and naval training systems plans. Technical support shall include acceptance trials, test and evaluation, inspections of production facilities, methods and quality assurance procedures and processes during and after construction. Additionally, official Navy boat inventory management, pre-delivery and post-delivery inspections and preparing documentation regarding boat and combatant craft procurement contract closeout and may be accomplished. Boats will not be safe or suitable to perform Navy boat and combatant craft missions if acquisition engineering technical support and integrated logistics support are not funded and completed. Boats will not be properly accounted for in accordance with OPNAV 4780.6E if boat inventory management is not provided.</p> <p>H0CA5 DIVE BOATS</p> <p>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. Aluminum hull from 50 to 60 ft, walkthrough cabin, seating for coxswain &amp; navigator, bench seating for four passengers, bits forward &amp; aft, engine guard rail, dive door (stbd), certified hoisting fittings &amp; hoisting sling. 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: 15-20 years.</p> <p>H0CA6 RANGE SUPPORT CRAFT</p> <p>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. Sea kindness 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, torpedoes, surface and air launched Remotely Operated Vehicles (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 recognize commercial standards can accomplish specific operational requirements for the mission. Service Life is 25 years.</p> <p>H0CAB FORCE PROTECTION BOAT (SMALL)</p> <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>H0G86 OCO SUPPLEMENTAL</p>		

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 12: Small Boats

**P-1 Line Item Nomenclature:**  
1210 - Standard Boats

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

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.

Secondary Distribution		FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018
Navy	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	36.172	29.026	35.349	-	35.349	44.592	42.635	42.089	42.775
NR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.081	1.105	1.103	-	1.103	1.132	1.144	1.164	1.184

Item Schedule		Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Standard Boats	P40A, P5A, P21				231.573			37.253			30.131			36.452			-			36.452
<b>Total Gross/Weapon System Cost</b>					<b>231.573</b>			<b>37.253</b>			<b>30.131</b>			<b>36.452</b>			<b>-</b>			<b>36.452</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

**UNCLASSIFIED**

Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy																	Date: April 2013			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 12: Small Boats						P-1 Line Item Nomenclature: 1210 - Standard Boats						Aggregated Item Name: Standard Boats								
Items († indicates the presence of a P-5A)	ID CD	MDAP/ MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) H0001 - Base Operating Forces</b>																				
1.1) Force Protection Small	A		3,387K	3	10.161	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 1.2) CNIC Force Protection Small	A		-	-	-	359,000.00	3	1.077	369,000.00	1	0.369	380,000.00	2	0.760	-	-	-	380,000.00	2	0.760
† 1.3) CNIC Force Protection Medium	A		882,800.00	15	13.242	415,000.00	6	2.490	425,000.00	7	2.975	438,000.00	10	4.380	-	-	-	438,000.00	10	4.380
† 1.4) CNIC Force Protection Large	A		32,666K	1	32.666	724,000.00	1	0.724	746,000.00	1	0.746	768,000.00	1	0.768	-	-	-	768,000.00	1	0.768
† 1.5) CNIC Workboat Medium	A		1,346K	5	6.729	813,000.00	2	1.626	837,000.00	2	1.674	862,000.00	2	1.724	-	-	-	862,000.00	2	1.724
† 1.6) CNIC Workboat Large	A		-	-	-	1,441K	2	2.882	1,484K	2	2.968	1,529K	2	3.058	-	-	-	1,529K	2	3.058
<i>Subtotal 1) H0001 - Base Operating Forces</i>						62.798		8.799		8.732		10.690		-						10.690
<b>2) H0002 - Amphibious Assault Ships</b>																				
† 2.1) 11M (36FT) Rigid Inflatable Boat (RIB)	A		-	-	6.565	580,000.00	4	2.320	586,000.00	2	1.172	593,000.00	5	2.965	-	-	-	593,000.00	5	2.965
<i>Subtotal 2) H0002 - Amphibious Assault Ships</i>						6.565		2.320		1.172		2.965		-						2.965
<b>3) H0003 - Explosive Ordnance Forces</b>																				
† 3.1) EOD Support Craft (RIB)	A		1,099K	6	6.594	236,000.00	10	2.360	-	-	-	-	-	-	-	-	-	-	-	-
† 3.2) SPAWAR 11M EOD TYPE RIB	A		-	-	-	1,800K	2	3.600	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 3) H0003 - Explosive Ordnance Forces</i>						6.594		5.960		-		-		-						-
<b>4) H0004 - Naval Special Warfare</b>																				
† 4.1) NSW Long Range Support Craft	A		2,215K	2	4.430	301,000.00	2	0.602	301,000.00	4	1.204	310,000.00	4	1.240	-	-	-	310,000.00	4	1.240
† 4.2) NSW Short Range Support Craft	A		1,794K	3	5.382	298,670.00	3	0.896	299,000.00	6	1.794	308,000.00	7	2.156	-	-	-	308,000.00	7	2.156
† 4.3) E-VBSS	A		-	-	-	-	-	-	-	-	900,000.00	4	3.600	-	-	-	900,000.00	4	3.600	-
<i>Subtotal 4) H0004 - Naval Special Warfare</i>						9.812		1.498		2.998		6.996		-						6.996
<b>5) H0005 - Riverine Activities</b>																				
† 5.1) Riverine Multi-Mission Craft	A		5,710K	7	39.968	1,231K	3	3.693	1,275K	1	1.275	-	-	-	-	-	-	-	-	-

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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 12: Small Boats

**P-1 Line Item Nomenclature:**  
1210 - Standard Boats

**Aggregated Item Name:**  
Standard Boats

Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
† 5.2) MK VI Patrol Boat	A		-	-	-	6,300K	2	12.600	6,489K	1	6.489	5,562K	1	5.562	-	-	-	5,562K	1	5.562
<i>Subtotal 5) H0005 - Riverine Activities</i>					39.968			16.293			7.764			5.562			-			5.562
<b>6) H0006 - Support Forces</b>																				
† 6.1) 7M (24FT) Rigid Inflatable Boat (RIB)	A		815,187.50	16	13.043	-	-	-	185,000.00	16	2.960	188,000.00	24	4.512	-	-	-	188,000.00	24	4.512
<i>Subtotal 6) H0006 - Support Forces</i>					13.043			-			2.960			4.512			-			4.512
<b>7) H0007 - Fleet Logistics Support</b>																				
† 7.1) 7M (24FT) Rigid Inflatable Boat (RIB)	A		815,250.00	4	3.261	-	-	-	185,000.00	4	0.740	189,000.00	4	0.756	-	-	-	189,000.00	4	0.756
<i>Subtotal 7) H0007 - Fleet Logistics Support</i>					3.261			-			0.740			0.756			-			0.756
<b>8) H0008 - Naval Coastal Warfare</b>																				
8.1) Reserve Patrol Boat Small	A		-	-	0.681	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 8.2) Reserve Patrol Boat Large	A		-	-	0.696	967,000.00	1	0.967	995,000.00	1	0.995	1,022K	1	1.022	-	-	-	1,022K	1	1.022
<i>Subtotal 8) H0008 - Naval Coastal Warfare</i>					1.377			0.967			0.995			1.022			-			1.022
<b>9) H0009 - Warfare Integration</b>																				
† 9.1) Dive Boat Replacement	A		-	-	-	-	-	-	1,814K	2	3.629	-	-	-	-	-	-	-	-	-
<i>Subtotal 9) H0009 - Warfare Integration</i>					-			-			3.629			-			-			-
<b>10) H0010 - Pollution Control Equipment</b>																				
† 10.1) Oilboom Platform	A		-	-	-	-	-	-	-	-	-	178,000.00	2	0.356	-	-	-	178,000.00	2	0.356
† 10.2) Utility Boats	A		-	-	-	-	-	-	-	-	-	127,000.00	5	0.635	-	-	-	127,000.00	5	0.635
† 10.3) Rapid Response Skimmer	A		-	-	-	-	-	-	-	-	-	380,000.00	6	2.280	-	-	-	380,000.00	6	2.280
<i>Subtotal 10) H0010 - Pollution Control Equipment</i>					-			-			-			3.271			-			3.271
<b>11) H0830 - Production Engineering</b>																				
11.1) Production Engineering	A		-	-	4.660	-	-	0.732	-	-	0.580	-	-	0.234	-	-	-	-	-	0.234

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Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy																	Date: April 2013			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 12: Small Boats						P-1 Line Item Nomenclature: 1210 - Standard Boats						Aggregated Item Name: Standard Boats								
Items († indicates the presence of a P-5A)	ID CD	MDAP/ MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
11.2) Production Engineering (Naval Coastal Warfare)	A		-	-	0.157	-	-	0.063	-	-	0.061	-	-	0.059	-	-	-	-	-	0.059
<i>Subtotal 11) H0830 - Production Engineering</i>							4.817			0.795			0.641			0.293			-	0.293
<b>12) H0900 - Consulting Services</b>																				
12.1) Consulting Services	A		-	-	4.011	-	-	0.570	-	-	0.451	-	-	0.363	-	-	-	-	-	0.363
12.2) Consulting Services (Naval Coastal Warfare)	A		-	-	0.142	-	-	0.051	-	-	0.049	-	-	0.022	-	-	-	-	-	0.022
<i>Subtotal 12) H0900 - Consulting Services</i>							4.153			0.621			0.500			0.385			-	0.385
<b>13) H0CA5 - Dive Boats</b>																				
13.1) Dive Boats	A		2,259K	3	6.777	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 13) H0CA5 - Dive Boats</i>							6.777			-			-			-			-	-
<b>14) H0CA6 - Range Support Craft</b>																				
14.1) Range Support Craft	A		18,362K	2	36.723	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 14) H0CA6 - Range Support Craft</i>							36.723			-			-			-			-	-
<b>15) H0CAB - Force Protection Boat (Small)</b>																				
15.1) Force Protection Boat (Small)	A		-	-	2.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15.2) Small Escort Vessels (33')	A		-	-	9.979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 15) H0CAB - Force Protection Boat (Small)</i>							11.979			-			-			-			-	-
<b>16) H0G86 - OCO</b>																				
16.1) OCO - Patrol Boat (Large) (Reserve)	A		651,000.00	2	1.302	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16.2) OCO - RIBS	A		500,000.00	2	1.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16.3) OCO - 7M EOD RIBs (Reserve)	A		234,000.00	6	1.404	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16.4) OCO - Force Protection - Coastal (Reserve)	A		4,000K	5	20.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 16) H0G86 - OCO</i>							23.706			-			-			-			-	-
<b>Total</b>					<b>231.573</b>			<b>37.253</b>			<b>30.131</b>			<b>36.452</b>			<b>-</b>			<b>36.452</b>

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Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Navy										Date: April 2013		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 12: Small Boats				P-1 Line Item Nomenclature: 1210 - Standard Boats				Aggregated Item Name: Standard Boats				
Items († indicates the presence of a P-21)	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>1) H0001 - Base Operating Forces</b>												
1.2) CNIC Force Protection Small		2012	Workskiff / Woolley, WA	C / FFP	NAVSEA	Sep 2012	Mar 2013	3	359,000.00	N		
1.2) CNIC Force Protection Small		2013	TBD / TBD	C / FFP	NAVSEA	Mar 2013	Aug 2013	1	369,000.00	N		
1.2) CNIC Force Protection Small		2014	TBD / TBD	C / FFP	NAVSEA	Mar 2014	Aug 2014	2	380,000.00	N		
†1.3) CNIC Force Protection Medium		2012	TBD / TBD	C / FFP	NAVSEA	Mar 2013	Sep 2013	6	415,000.00	N		
†1.3) CNIC Force Protection Medium		2013	TBD / TBD	C / FFP	NAVSEA	Mar 2013	Sep 2013	7	425,000.00	N		
†1.3) CNIC Force Protection Medium		2014	TBD / TBD	C / FFP	NAVSEA	Mar 2014	Sep 2014	10	438,000.00	N		
1.4) CNIC Force Protection Large		2012	North River Boats / Roseburg, OR	C / FFP	NAVSEA	Sep 2012	Mar 2013	1	724,000.00	N		
1.4) CNIC Force Protection Large		2013	TBD / TBD	C / FFP	NAVSEA	Jun 2013	Feb 2014	1	746,000.00	N		
1.4) CNIC Force Protection Large		2014	TBD / TBD	C / FFP	NAVSEA	Jun 2014	Feb 2015	1	768,000.00	N		
1.5) CNIC Workboat Medium		2012	Modutech. / Tacoma, WA	C / FFP	NAVSEA	Dec 2011	Mar 2014	2	813,000.00	N		
1.5) CNIC Workboat Medium		2013	TBD / TBD	C / FFP	NAVSEA	May 2013	Nov 2013	2	837,000.00	N		
1.5) CNIC Workboat Medium		2014	TBD / TBD	C / FFP	NAVSEA	May 2014	Nov 2014	2	862,000.00	N		
1.6) CNIC Workboat Large		2012	TBD / TBD	C / FFP	NAVSEA	May 2013	Aug 2014	2	1,441K	N		
1.6) CNIC Workboat Large		2013	TBD / TBD	C / FFP	NAVSEA	May 2013	Aug 2014	2	1,484K	N		
1.6) CNIC Workboat Large		2014	TBD / TBD	C / FFP	NAVSEA	May 2014	Aug 2015	2	1,529K	N		
<b>2) H0002 - Amphibious Assault Ships</b>												
2.1) 11M (36FT) Rigid Inflatable Boat (RIB)		2012	Willard Marine / Anaheim, CA	C / FFP	NAVSEA	Sep 2012	Jun 2013	4	580,000.00	N		
2.1) 11M (36FT) Rigid Inflatable Boat (RIB)		2013	Willard Marine / Anaheim, CA	C / FFP	NAVSEA	Nov 2012	Sep 2013	2	586,000.00	N		
2.1) 11M (36FT) Rigid Inflatable Boat (RIB)		2014	TBD / TBD	C / FFP	NAVSEA	Jun 2014	Mar 2015	5	593,000.00	N		
<b>3) H0003 - Explosive Ordnance Forces</b>												
3.1) EOD Support Craft (RIB)		2012	Brunswick Commercial & Government Production / Edgewater, FL	C / FFP	NAVSEA	Mar 2012	Aug 2012	10	236,000.00	N		
3.2) SPAWAR 11M EOD TYPE RIB		2012	Zodiac / Stevensville, MD	C / FFP	NAVSEA	Jun 2012	Dec 2012	2	1,800K	N		

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Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Navy										Date: April 2013		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 12: Small Boats				P-1 Line Item Nomenclature: 1210 - Standard Boats				Aggregated Item Name: Standard Boats				
Items († indicates the presence of a P-21)	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>4) H0004 - Naval Special Warfare</b>												
4.1) NSW Long Range Support Craft		2012	TBD / TBD	C / FFP	NAVSEA	Jun 2013	Dec 2013	2	301,000.00	N		
4.1) NSW Long Range Support Craft		2013	TBD / TBD	C / FFP	NAVSEA	Jun 2013	Dec 2013	4	301,000.00	N		
4.1) NSW Long Range Support Craft		2014	TBD / TBD	C / FFP	NAVSEA	Jun 2014	Dec 2014	4	310,000.00	N		
4.2) NSW Short Range Support Craft		2012	TBD / TBD	C / FFP	NAVSEA	Jun 2013	Dec 2013	3	298,670.00	N		
4.2) NSW Short Range Support Craft		2013	TBD / TBD	C / FFP	NAVSEA	Jun 2013	Dec 2013	6	299,000.00	N		
4.2) NSW Short Range Support Craft		2014	TBD / TBD	C / FFP	NAVSEA	Jun 2014	Dec 2014	7	308,000.00	N		
4.3) E-VBSS		2014	TBD / TBD	C / FFP	NAVSEA	Jun 2014	Dec 2014	4	900,000.00	N		
<b>5) H0005 - Riverine Activities</b>												
5.1) Riverine Multi-Mission Craft		2012	USMI / Gulport, MS	C / FFP	NAVSEA	May 2012	Oct 2012	3	1,231K	N		
5.1) Riverine Multi-Mission Craft		2013	TBD / TBD	C / FFP	NAVSEA	Jun 2013	Dec 2013	1	1,275K	N		
†5.2) MK VI Patrol Boat		2012	Safeboats / Port Orchard, WA	C / FFP	NAVSEA	May 2012	May 2013	2	6,300K	N		
†5.2) MK VI Patrol Boat		2013	Safeboats / Port Orchard, WA	C / FFP	NAVSEA	Jan 2013	Jan 2014	1	6,489K	N		
†5.2) MK VI Patrol Boat		2014	TBD / TBD	C / FFP	NAVSEA	Apr 2014	Apr 2015	1	5,562K	N		
<b>6) H0006 - Support Forces</b>												
6.1) 7M (24FT) Rigid Inflatable Boat (RIB)		2013	TBD / TBD	C / FFP	NAVSEA	May 2013	Dec 2013	16	185,000.00	N		
6.1) 7M (24FT) Rigid Inflatable Boat (RIB)		2014	TBD / TBD	C / FFP	NAVSEA	May 2014	Dec 2014	24	188,000.00	N		
<b>7) H0007 - Fleet Logistics Support</b>												
7.1) 7M (24FT) Rigid Inflatable Boat (RIB)		2013	TBD / TBD	C / FFP	NAVSEA	May 2013	Dec 2013	4	185,000.00	N		
7.1) 7M (24FT) Rigid Inflatable Boat (RIB)		2014	TBD / TBD	C / FFP	NAVSEA	May 2014	Dec 2014	4	189,000.00	N		
<b>8) H0008 - Naval Coastal Warfare</b>												
8.2) Reserve Patrol Boat Large		2012	USMI / Gulfport, MS	C / FFP	NAVSEA	Mar 2012	Aug 2012	1	967,000.00	N		
8.2) Reserve Patrol Boat Large		2013	TBD / TBD	C / FFP	NAVSEA	Jun 2013	Feb 2014	1	995,000.00	N		

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<b>Exhibit P-5A, Budget Procurement History and Planning:</b> PB 2014 Navy										<b>Date:</b> April 2013		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 12: Small Boats				<b>P-1 Line Item Nomenclature:</b> 1210 - Standard Boats				<b>Aggregated Item Name:</b> Standard Boats				
<b>Items</b> <small>(† indicates the presence of a P-21)</small>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type, or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$)</b>	<b>Specs Avail Now?</b>	<b>Date Revsn Avail</b>	<b>RFP Issue Date</b>
8.2) Reserve Patrol Boat Large		2014	TBD / TBD	C / FFP	NAVSEA	Jun 2014	Feb 2015	1	1,022K	N		
<b>9) H0009 - Warfare Integration</b>												
9.1) Dive Boat Replacement		2013	TBD / TBD	C / FFP	NAVSEA	Sep 2013	Apr 2014	2	1,814K	N		
<b>10) H0010 - Pollution Control Equipment</b>												
10.1) Oilboom Platform		2014	TBD / TBD	C / FFP	NAVSEA	Jul 2014	Jan 2015	2	178,000.00	N		
10.2) Utility Boats		2014	TBD / TBD	C / FFP	NAVSEA	Jul 2014	Dec 2014	5	127,000.00	N		
10.3) Rapid Response Skimmer		2014	TBD / TBD	C / FFP	NAVSEA	Jul 2014	Jan 2015	6	380,000.00	N		

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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 12: Small Boats		<b>P-1 Line Item Nomenclature:</b> 1210 - Standard Boats
		<b>Aggregated Item Name:</b> Standard Boats

Items (Units in Each)					Fiscal Year 2012												Fiscal Year 2013																			
O C C O	M F R #	FY	SERVICE±	PROC QTY	ACCEP PRIOR TO 1 OCT 2011	BAL DUE AS OF 1 OCT	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	B A L					
1) H0001 - Base Operating Forces																																				
1.3) CNIC Force Protection Medium																																				
All Prior Years Deliveries: 15																																				
	13	2012	NAVY	6	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5
	13	2013	NAVY	7	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	6
	13	2014	NAVY	10	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
5) H0005 - Riverine Activities																																				
5.2) MK VI Patrol Boat																																				
	14	2014	NAVY	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	15	2012	NAVY	2	-	2	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
	15	2013	NAVY	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
							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	B A L					

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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2014 Navy															<b>Date:</b> April 2013														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 12: Small Boats										<b>P-1 Line Item Nomenclature:</b> 1210 - Standard Boats										<b>Aggregated Item Name:</b> Standard Boats									

Items <i>(Units in Each)</i>						Fiscal Year 2014													Fiscal Year 2015																		
O C C O	M F R #	FY	SERVICE±	PROC QTY	ACCEP PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	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	B A L						
1) H0001 - Base Operating Forces																																					
1.3) CNIC Force Protection Medium																																					
All Prior Years Deliveries: 15																																					
	13	2012	NAVY	6	1	5	1	1	1	1	1	1																								-	
	13	2013	NAVY	7	1	6	1	1	1	1	1	1	1																							-	
	13	2014	NAVY	10	-	10	-	-	-	-	-	A-	-	-	-	-	-	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		-	
5) H0005 - Riverine Activities																																					
5.2) MK VI Patrol Boat																																					
	14	2014	NAVY	1	-	1	-	-	-	-	-	-	A-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		-
	15	2012	NAVY	2	2	-																															-
	15	2013	NAVY	1	-	1	-	-	-	1																											-
							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	B A L						

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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 12: Small Boats	<b>P-1 Line Item Nomenclature:</b> 1210 - Standard Boats	<b>Aggregated Item Name:</b> Standard Boats

MFR #	MFR Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR	1-8-5	MAX	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	TBD - TBD	-	-	-	3	-	6	6	-	-	-	-
2	TBD - TBD	-	-	-	3	-	12	12	-	-	-	-
3	Safeboats - Port Orchard, WA	-	-	-	3	-	12	12	-	-	-	-

"A" in the Delivery Schedule indicated the Contract Award Date.  
 Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

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**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 13: Training Equipment	<b>P-1 Line Item Nomenclature:</b> 1320 - Other Ships Training Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	66.675	29.885	29.772	36.145	-	36.145	27.748	28.832	31.032	31.538	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	66.675	29.885	29.772	36.145	-	36.145	27.748	28.832	31.032	31.538	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>66.675</b>	<b>29.885</b>	<b>29.772</b>	<b>36.145</b>	<b>-</b>	<b>36.145</b>	<b>27.748</b>	<b>28.832</b>	<b>31.032</b>	<b>31.538</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	0.340	0.525	-	0.525	0.297	0.327	0.403	0.410	Continuing	Continuing
Flyaway Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

The equipment procured under the Other Ships Training Equipment line supports Hull, Mechanical, and Electrical (HM&E) training requirements.

[P40A / (H5265) SURFACE SUSTAINING TTE]: Funds procure Hull Mechanical & Electrical (HM&E) and Combat System 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; replaces equipment beyond economical repair and procures new equipment.

[P40A / (H5374) LCS SEAFRAME SIMULATORS TRAINING]: "Integrated Tactical Trainers" provides funding for the procurement of LCS Trainers at the respective LCS homeports and the Surface Warfare Officer School (SWOS), Newport, R.I. Trainers are needed to meet the Train to Qualify Key Performance Parameter (KPP) requirement of the Capabilities Development Document in support of the minimal manning of the ship. Funding is for procurements of hardware and software associated with building the trainers, and installation of this hardware and software at the LCS Training Facilities in each homeport and at SWOS. Procurements for the trainers are required for each ship type, with initial procurements for the San Diego homeport and SWOS, followed by procurements for the Mayport homeport. Throughput of LCS crews requires more than one simulator of each type in a homeport.

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-haul remote vehicles, and the operating of the cranes, doors, and other associated equipment in the mission bay

[P40A / (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 / stimulators, 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/Training Unique Equipment (TUE), 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. FIDEs support multiple ship classes and FIDE configurations at 10 different geographic sites, each requiring different levels of installation work; thus the cost for the program varies widely from year to year depending on these combinations of factors.

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 13: Training Equipment

**P-1 Line Item Nomenclature:**  
1320 - Other Ships Training Equipment

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**  
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.

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Other Ships Training Equipment	P40A				66.675			29.885			29.772			36.145			-			36.145
<b>Total Gross/Weapon System Cost</b>					<b>66.675</b>			<b>29.885</b>			<b>29.772</b>			<b>36.145</b>			<b>-</b>			<b>36.145</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

**UNCLASSIFIED**

**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 13: Training Equipment

**P-1 Line Item Nomenclature:**  
1320 - Other Ships Training Equipment

**Aggregated Item Name:**  
Other Ships Training Equipment

Items	ID CD	MDAP/ MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)															
<b>1) (H5265) SURFACE SUSTAINING TTE</b>																				
1.1) SURFACE SUSTAINING TTE	A		-	-	8.696	-	-	0.978	-	-	0.681	-	-	0.698	-	-	-	-	-	0.698
<i>Subtotal 1) (H5265) SURFACE SUSTAINING TTE</i>					8.696		0.978		0.681		0.698			-					0.698	
<b>2) (H5374) LCS SEAFRAME SIMULATORS TRAINING</b>																				
2.1) LCS TACTICAL TRAINERS	A		-	-	-	-	-	20.391	-	-	6.640	-	-	18.726	-	-	-	-	-	18.726
2.2) LCS MISSION BAY TRAINERS	A		-	-	-	-	-	-	-	-	14.000	-	-	8.000	-	-	-	-	-	8.000
<i>Subtotal 2) (H5374) LCS SEAFRAME SIMULATORS TRAINING</i>					-		20.391		20.640		26.726			-					26.726	
<b>3) (H5276) SUBSURFACE SUSTAINING TTE</b>																				
3.1) FIDE CVN	A		-	-	9.289	-	-	3.015	-	-	0.969	-	-	1.724	-	-	-	-	-	1.724
3.2) FIDE SUB	A		-	-	12.444	-	-	3.465	-	-	6.071	-	-	5.160	-	-	-	-	-	5.160
3.3) SUSTAINING TTE	A		-	-	34.746	-	-	0.506	-	-	0.350	-	-	0.445	-	-	-	-	-	0.445
3.4) SCOT	A		-	-	1.500	-	-	1.530	-	-	1.061	-	-	1.392	-	-	-	-	-	1.392
<i>Subtotal 3) (H5276) SUBSURFACE SUSTAINING TTE</i>					57.979		8.516		8.451		8.721			-					8.721	
<b>Total</b>					<b>66.675</b>			<b>29.885</b>			<b>29.772</b>			<b>36.145</b>						<b>36.145</b>

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**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 14: Production Facilities Equipment	<b>P-1 Line Item Nomenclature:</b> 1445 - Operating Forces IPE
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	310.222	55.905	64.346	69.368	-	69.368	61.951	62.573	62.267	63.377	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	310.222	55.905	64.346	69.368	-	69.368	61.951	62.573	62.267	63.377	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>310.222</b>	<b>55.905</b>	<b>64.346</b>	<b>69.368</b>	<b>-</b>	<b>69.368</b>	<b>61.951</b>	<b>62.573</b>	<b>62.267</b>	<b>63.377</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

[P40A / 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.

[P40A / KN200: ELECTRONIC TECHNICAL WORK DOCUMENT (ETWD)]: 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.

[P40A / 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.

[P40A / KN400: SHIP MAINTENANCE INVESTMENT PROGRAM]: This line item provides funding to support capital investments for the Regional Maintenance Centers (RMCs) and Trident Refit Facility (TRF) Kings Bay (KB). Funds will be used for the procurement and execution of personal property projects (including Industrial Plant Equipment (IPE), IT HW/SW, portal/bridge cranes, MILCON collateral equipment, etc.) of a capital nature (greater than \$250K) to maintain and modernize the ship maintenance industrial base, with a focus on reducing total ownership costs. These personal property projects are required for the RMCs and TRF KB to perform their mission of repairing, conversion, and modernization of fleet ships and submarines.

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 14: Production Facilities Equipment	<b>P-1 Line Item Nomenclature:</b> 1445 - Operating Forces IPE
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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**MDAP/MAIS Code(s):**

[P40A / KN501: AN/BPS-16(V) RADAR DEPOT OVERHAUL CAPABILITY]: This line item provides funds required to establish the AN/BPS-16(V) radar depot overhaul capability at the Naval Intermediate Maintenance Facility, Pacific Northwest. This new depot capability is required for overhaul of Fleet BPS-16(V) Submarine Radar Masts, Antenna Drive Units (ADUs), and Antenna Control Units (ACUs).

[P40A / KN502: NAVY SUBMARINE SUPPORT TO NAVBASE GUAM]: Fund OPN Industrial Plant Equipment (IPE) procurements supporting MILCON P566, NAVBASE Guam Emergent Repair Facility (ERF) Expansion.

[P40A / KN503: NAVAL HISTORY AND HERITAGE COMMAND]: USS CONSTITUTION requires drydocking in FY15. This funding purchases a crane with lifting capacity of 110 tons, main boom range of 210 feet in support of ship overhaul at Det Boston.

[P40A / 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.

[P40A / KN700: DISTANCE SUPPORT]: These funds support the Anchor Desk (Integrated Call Center), Customer Relations Management (CRM) solutions, implementation and standardization of various tele-assistance/telemaintenance tools, collaborative infrastructure support and metrics/data mining.

[P40A / KN800: INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) NEW INSTALL]: Funding procures all new installations of the Integrated Condition Assessment System (ICAS) hardware and software aboard Surface Fleet hulls. New Installation include: ICAS workstation hardware (including Palm Pilot Portable Data Terminal (PDTs)), latest version of ICAS system software, Configuration Data Set (CDS) (including the implementation of developed enhancements), firewall (if applicable), remote monitoring utility (RMU), ILS and ship's force training. Manage contractor efforts, prepare installation plans, perform ship checks, procure material, oversee shipboard installation and Quality Assurance (QA), develop/implement CDS, install/test all software and CDSs, provide ship's force training.

[P40A / KN900: INTEGRATED CONDITION AWSSSESSMENT SYSTEM (ICAS) TECH REFRESH]: 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.

Item Schedule		Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Operating Forces IPE	P40A				310.222			55.905			64.346			69.368			-			69.368
<b>Total Gross/Weapon System Cost</b>					<b>310.222</b>			<b>55.905</b>			<b>64.346</b>			<b>69.368</b>			<b>-</b>			<b>69.368</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

**UNCLASSIFIED**

Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy																	Date: April 2013			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 14: Production Facilities Equipment						P-1 Line Item Nomenclature: 1445 - Operating Forces IPE						Aggregated Item Name: Operating Forces IPE								
Items	ID CD	MDAP/ MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) KN100: INDUSTRIAL PLANT EQUIPMENT (IPE) REPLACEMENT/AFLOAT SUPPORT</b>																				
1.1) AFLOAT IPE SUPPORT (BFIMA UPGRADE) - SURFACE SUPPORT	A		-	-	1.294	-	-	0.277	-	-	0.286	-	-	0.290	-	-	-	-	-	0.290
<i>Subtotal 1) KN100: INDUSTRIAL PLANT EQUIPMENT (IPE) REPLACEMENT/AFLOAT SUPPORT</i>							1.294			0.277			0.286			0.290			-	0.290
<b>2) KN200: ELECTRONIC TECHNICAL WORK DOCUMENT (ETWD)</b>																				
2.1) ELECTRONIC TECHNICAL WORK DOCUMENT (ETWD) SUPPORT	A		-	-	-	-	-	0.392	-	-	2.686	-	-	5.777	-	-	-	-	-	5.777
<i>Subtotal 2) KN200: ELECTRONIC TECHNICAL WORK DOCUMENT (ETWD)</i>							-			0.392			2.686			5.777			-	5.777
<b>3) KN300: SHIPYARD CAPITAL INVESTMENT PROGRAM (CIP)</b>																				
3.1) SHIPYARD CAPITAL INVESTMENT PROGRAM (CIP)	A		-	-	299.069	-	-	49.539	-	-	48.469	-	-	31.876	-	-	-	-	-	31.876
<i>Subtotal 3) KN300: SHIPYARD CAPITAL INVESTMENT PROGRAM (CIP)</i>							299.069			49.539			48.469			31.876			-	31.876
<b>4) KN400: SHIP MAINTENANCE INVESTMENT PROGRAM</b>																				
4.1) SHIP MAINTENANCE INVESTMENT PROGRAM	A		-	-	-	-	-	-	-	-	5.590	-	-	2.400	-	-	-	-	-	2.400
<i>Subtotal 4) KN400: SHIP MAINTENANCE INVESTMENT PROGRAM</i>							-			-			5.590			2.400			-	2.400
<b>5) KN501: AN/BPS-16(V) RADAR DEPOT OVERHAUL CAPABILITY</b>																				

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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 14: Production Facilities Equipment

**P-1 Line Item Nomenclature:**  
1445 - Operating Forces IPE

**Aggregated Item Name:**  
Operating Forces IPE

Items	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
5.1) AN/BPS-16(V) RADAR DEPOT OVERHAUL CAPABILITY	A		-	-	-	-	-	3.200	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 5) KN501: AN/ BPS-16(V) RADAR DEPOT OVERHAUL CAPABILITY</i>					-			3.200			-			-			-			-
<b>6) KN502: NAVY SUBMARINE SUPPORT TO NAVBASE GUAM</b>																				
6.1) NAVY SUBMARINE SUPPORT TO NAVBASE GUAM	A		-	-	-	-	-	-	-	-	-	-	-	24.000	-	-	-	-	-	24.000
<i>Subtotal 6) KN502: NAVY SUBMARINE SUPPORT TO NAVBASE GUAM</i>					-			-			-			24.000			-			24.000
<b>7) KN503: NAVAL HISTORY AND HERITAGE COMMAND (1)</b>																				
7.1) US CONSTITUTION DRY DOCKING CRANE	A		-	-	-	-	-	-	-	-	-	-	-	0.800	-	-	-	-	-	0.800
<i>Subtotal 7) KN503: NAVAL HISTORY AND HERITAGE COMMAND</i>					-			-			-			0.800			-			0.800
<b>8) KN600: REGIONAL MAINTENANCE AUTOMATED INFORMATION SYSTEMS (RMAIS)</b>																				
8.1) REGIONAL MAINTENANCE AIS	A		-	-	3.143	-	-	0.325	-	-	0.334	-	-	-	-	-	-	-	-	-
<i>Subtotal 8) KN600: REGIONAL MAINTENANCE AUTOMATED INFORMATION SYSTEMS (RMAIS)</i>					3.143			0.325			0.334			-			-			-
<b>9) KN700: DISTANCE SUPPORT</b>																				
9.1) DISTANCE SUPPORT	A		-	-	3.789	-	-	0.109	-	-	0.936	-	-	-	-	-	-	-	-	-
<i>Subtotal 9) KN700: DISTANCE SUPPORT</i>					3.789			0.109			0.936			-			-			-
<b>10) KN800: INTEGRATED CONDITION</b>																				

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**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 14: Production Facilities Equipment

**P-1 Line Item Nomenclature:**  
1445 - Operating Forces IPE

**Aggregated Item Name:**  
Operating Forces IPE

Items	ID CD	MDAP/ MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)															
<b>ASSESSMENT SYSTEM (ICAS) NEW INSTALL</b>																				
10.1) INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS)	A		-	-	-	-	-	-	-	-	3.392	-	-	2.064	-	-	-	-	-	2.064
<i>Subtotal 10) KN800: INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) NEW INSTALL</i>					-	-	-	-	-	3.392	-	-	2.064	-	-	-	-	-	2.064	
<b>11) KN900: INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) TECH REFRESH</b>																				
11.1) INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS)	A		-	-	2.927	-	-	2.063	-	-	2.653	-	-	2.161	-	-	-	-	-	2.161
<i>Subtotal 11) KN900: INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) TECH REFRESH</i>					2.927	-	2.063	-	-	2.653	-	-	2.161	-	-	-	-	-	2.161	
<b>Total</b>					<b>310.222</b>			<b>55.905</b>			<b>64.346</b>			<b>69.368</b>					<b>69.368</b>	

**Footnotes:**  
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**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 15: Other Ship Support

**P-1 Line Item Nomenclature:**  
1480 - Nuclear Alterations

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	116.196	144.175	154.652	106.328	-	106.328	125.979	151.382	141.090	146.485	-	1,086.287
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	116.196	144.175	154.652	106.328	-	106.328	125.979	151.382	141.090	146.485	-	1,086.287
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>116.196</b>	<b>144.175</b>	<b>154.652</b>	<b>106.328</b>	<b>-</b>	<b>106.328</b>	<b>125.979</b>	<b>151.382</b>	<b>141.090</b>	<b>146.485</b>	<b>-</b>	<b>1,086.287</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

The details of this program are classified CONFIDENTIAL and are submitted to Congress annually in the classified budget justification books.

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Nuclear Alterations	P40A				116.196			144.175			154.652			106.328			-			106.328
<b>Total Gross/Weapon System Cost</b>					<b>116.196</b>			<b>144.175</b>			<b>154.652</b>			<b>106.328</b>			<b>-</b>			<b>106.328</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

The details of this program are classified CONFIDENTIAL and are submitted to Congress annually in the classified budget justification books.

**UNCLASSIFIED**

**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
 1810N: Other Procurement, Navy / BA 01: Ships Support  
 Equipment / BSA 15: Other Ship Support

**P-1 Line Item Nomenclature:**  
 1480 - Nuclear Alterations

**Aggregated Item Name:**  
 Nuclear Alterations

Items	ID CD	MDAP/ MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)															
<b>1) New P40A Grouping</b>																				
1.1) Nuclear Alterations	A		-	-	116.196	-	-	144.175	-	-	154.652	-	-	106.328	-	-	-	-	-	106.328
<b>Total</b>					<b>116.196</b>			<b>144.175</b>			<b>154.652</b>			<b>106.328</b>			<b>-</b>			<b>106.328</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 15: Other Ship Support	<b>P-1 Line Item Nomenclature:</b> 1600 - LCS Common Mission Modules Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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**MDAP/MAIS Code(s):** 374,443

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	223.148	65.848	31.319	45.966	-	45.966	30.951	14.696	18.570	18.897	73.025	522.420
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	223.148	65.848	31.319	45.966	-	45.966	30.951	14.696	18.570	18.897	73.025	522.420
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>223.148</b>	<b>65.848</b>	<b>31.319</b>	<b>45.966</b>	<b>-</b>	<b>45.966</b>	<b>30.951</b>	<b>14.696</b>	<b>18.570</b>	<b>18.897</b>	<b>73.025</b>	<b>522.420</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	2.737	5.897	7.875	-	7.875	8.525	10.007	12.582	7.600	Continuing	Continuing
Flyaway Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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. A mission package is a combination of warfare mission modules with specialized crew, support equipment, and vehicles, including embarked manned helicopters and unmanned maritime systems. They are packaged in a modular fashion so that they can be quickly swapped in and out pier side on any LCS platform. The program has an inventory objective of 24 MCM mission packages, 24 SUW mission packages, and 16 ASW mission packages. Mission package procurement and delivery are aligned with the ship delivery schedule, mission area demand signal from the combatant commanders, and the retirement of legacy platforms. This means that 64 interchangeable mission packages will be available for use among the two seaframe variants of the LCS class to support global warfighting and peacetime presence requirements.

The LCS MMs program has developed two principal Seaframe-installed components to facilitate MP operation, the Mission Package Computing Environment (MPCE) and the Data Mission Payload. Additionally, each MP uses tailored Support Containers (SCs) whose designs are based upon an ISO compliant base container. The initial SUW, MCM, and ASW MPs utilize the common equipment, infrastructure, and services to the maximum extent possible. Future MMs and MPs will utilize the common infrastructure and services as well. The base container is built to print with adjustable interior rails that can be reconfigured for a variety of applications.

Other Related Budgets: BLIs: OPN 1601, OPN 1602, OPN 1603, OPN 4248, OPN 2622, OPN 2624, WPN 4221, WPN 4225, RDT&E 0603581N Project 3129

[P40A / LM005 - OBSOLESCENCE MISSION MODULE ECPs]: Supports Engineering Change Proposals for the obsolete systems in the MCM and SUW mission packages. ECPs are required to add the RT-1944/U Multiband Radio to LCS 1-2 and to replace existing radios (which have been de-certified for operational use) in the Mine Countermeasures (MCM) package including all Remote Multi-Mission Vehicle (RMMV) and Unmanned Surface Vehicles (USVs). Navy will be completing MCM and Surface Warfare (SUW) Developmental Testing (DT) in FY12 and Operational Testing (OT) in FY13. ECPs are required to retrofit Mine Countermeasures (MCM) Mission Package #1 Remote Multi-Mission Vehicles (RMMV) (two vehicles) to the MVCS common communications system.

[P40A / LM006 - LCS MISSION MODULES RADIO]: 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.

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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 15: Other Ship Support		<b>P-1 Line Item Nomenclature:</b> 1600 - LCS Common Mission Modules Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
<b>MDAP/MAIS Code(s):</b> 374,443		

[P40A / LM007 - C-HAWKLINK SUPPORT EQUIPMENT]: The C-Hawklink Support Equipment consists of a 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.

[P40A / LM008 - MPCE]: Commercial Off The Shelf (COTS)- Based Common Computing environment will support legacy Mission Package (MP) Command & Control (C2) applications and transition to Modular Open Systems Approach (MOSA) & 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.

[P40A / LM009 - DATA MISSION PAYLOAD]: Provides 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.

[P40A / LM010 - MISSION PACKAGE INTEGRATION]: The system engineering partner from industry is responsible for assembling each mission package, via the consolidation of the requisite modules, and ensuring that all integration and interface requirements are met.

[P40A / LM012 - TRAINING EQUIPMENT]: 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.

[P40A / LM015 - CONTAINERS (SHIPPING & SUPPORT)]: Each MP variant uses a base Support Container (SC) which is an International Organization for Standardization (ISO) compliant shipping container, which comes in two variants: Type I and Type II. The Type I container is a 20-foot ISO container with nominal dimensions of 20' x 8' x 8'. The Type II container is a 10-foot ISO container with nominal dimensions of 10' x 8' x 8'. In both cases the base SC is constructed of high strength steel to reduce the overall weight and features a number of standard configuration items.

Mission systems fit inside standard ten- or twenty-foot ISO SCs, or on ISO compliant flat racks and vehicle cradles. The LCS MP zones inside each seaframe mission bay are configured to accommodate the SCs. The LCS MP zones inside each seaframe mission bay are configured to accommodate the SCs.

[P40A / LM900 - CONSULTING SERVICES]: Provides program management support, engineering and technical support, studies, analysis and evaluation on mission package systems.

Item Schedule		Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
LCS MISSION MODULES	P40A, P5A, P21				223.148			65.848			31.319			45.966			-			45.966
<b>Total Gross/Weapon System Cost</b>					<b>223.148</b>			<b>65.848</b>			<b>31.319</b>			<b>45.966</b>			<b>-</b>			<b>45.966</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

**UNCLASSIFIED**

**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 15: Other Ship Support

**P-1 Line Item Nomenclature:**  
1600 - LCS Common Mission Modules Equipment

**Aggregated Item Name:**  
LCS MISSION MODULES

Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) LM001 - MCM Mission Package</b>																				
1.1) USV	A		-	-	1.675	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2) USV - SWEEP	A		-	-	2.410	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3) USV CRADLE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.4) RMMV	A		-	-	15.571	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 1.5) RMMV CRADLE	A		-	-	7.426	3,891K	2	7.782	-	-	-	-	-	-	-	-	-	-	-	-
1.6) OASIS	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.7) AMNS	A		7,595K	1	7.595	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 1.8) ALMDS	A		19,867K	1	19.867	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.9) AN/AQS-20A	A		-	-	39.099	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.10) COBRA	A		-	-	7.792	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.11) CABLE REWIND ASSEMBLY	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 1.12) MCM SUPPORT CONTAINERS	A		2,106K	7	14.743	988,875.00	8	7.911	-	-	-	-	-	-	-	-	-	-	-	-
1.13) SUPPORT EQUIPMENT	A		-	-	8.763	-	-	2.301	-	-	-	-	-	-	-	-	-	-	-	-
1.14) PRODUCTION ENGINEERING SUPPORT	A		-	-	7.322	-	-	1.038	-	-	-	-	-	-	-	-	-	-	-	-
1.15) MCM INCREMENTAL WHOLENESS - AQS-20A	A		-	-	5.773	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 1) LM001 - MCM Mission Package</i>					138.036			19.032												
<b>2) LM002 - ASW MISSION PACKAGE</b>																				
2.1) ASW MISSION PACKAGE	A		-	-	17.498	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) LM002 - ASW MISSION PACKAGE</i>					17.498			-												
<b>3) LM003 - SUW MISSION PACKAGE</b>																				
† 3.1) GUN MODULE	A		-	-	12.406	6,416K	2	12.831	-	-	-	-	-	-	-	-	-	-	-	-
† 3.2) SUW SHIPPING CONTAINER	A		-	-	-	144,833.33	6	0.869	-	-	-	-	-	-	-	-	-	-	-	-
† 3.3) SUW SUPPORT CONTAINER	A		-	-	2.308	403,250.00	4	1.613	-	-	-	-	-	-	-	-	-	-	-	-

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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 15: Other Ship Support

**P-1 Line Item Nomenclature:**  
1600 - LCS Common Mission Modules Equipment

**Aggregated Item Name:**  
LCS MISSION MODULES

Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
3.4) SURFACE-TO-SURFACE MISSILE MODULE	A		-	-	-	-	-	2.400	-	-	-	-	-	-	-	-	-	-	-	-
3.5) PRODUCTION ENGINEERING	A		-	-	-	-	-	2.013	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 3) LM003 - SUW MISSION PACKAGE</i>					14.714			19.726												
<b>4) LM005 - OBSOLESCENCE MISSION MODULE ECPs</b>																				
4.1) ENGINEERING CHANGE PROPOSALS	A		-	-	16.988	-	-	2.000	-	-	1.419	-	-	1.500	-	-	-	-	-	1.500
<i>Subtotal 4) LM005 - OBSOLESCENCE MISSION MODULE ECPs</i>					16.988			2.000			1.419			1.500						1.500
<b>5) LM006 - LCS MISSION MODULES RADIO</b>																				
† 5.1) LCS MISSION MODULES RADIO	A		1,999K	2	3.998	1,370K	2	2.740	1,386K	2	2.772	1,403K	2	2.806	-	-	-	1,403K	2	2.806
5.2) PRODUCTION ENGINEERING	A		-	-	0.488	-	-	0.301	-	-	0.347	-	-	0.341	-	-	-	-	-	0.341
<i>Subtotal 5) LM006 - LCS MISSION MODULES RADIO</i>					4.486			3.041			3.119			3.147						3.147
<b>6) LM007 - C-HAWKLINK SUPPORT EQUIPMENT</b>																				
6.1) C-HAWKLINK SUPPORT EQUIPMENT	A		-	-	5.885	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 6) LM007 - C-HAWKLINK SUPPORT EQUIPMENT</i>					5.885			-			-			-						-
<b>7) LM008 - MPCE</b>																				
† 7.1) MPCE	A		-	-	0.675	800,500.00	2	1.601	779,500.00	4	3.118	766,000.00	4	3.064	-	-	-	766,000.00	4	3.064
7.2) PRODUCTION ENGINEERING	A		-	-	-	-	-	0.285	-	-	0.168	-	-	0.127	-	-	-	-	-	0.127
<i>Subtotal 7) LM008 - MPCE</i>					0.675			1.886			3.286			3.191						3.191
<b>8) LM009 - DATA MISSION PAYLOAD</b>																				
† 8.1) DATA MISSION PAYLOAD	A		5,214K	1	5.214	-	-	-	5,502K	1	5.502	5,568K	1	5.568	-	-	-	5,568K	1	5.568
8.2) PRODUCTION ENGINEERING	A		-	-	0.951	-	-	-	-	-	0.689	-	-	0.687	-	-	-	-	-	0.687

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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 15: Other Ship Support

**P-1 Line Item Nomenclature:**  
1600 - LCS Common Mission Modules Equipment

**Aggregated Item Name:**  
LCS MISSION MODULES

Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal 8) LM009 - DATA MISSION PAYLOAD					6.165			-		6.191			6.255			-			6.255	
<b>9) LM010 - MISSION PACKAGE INTEGRATION</b>																				
9.1) MISSION PACKAGE PRODUCTION ENGINEERING & ASSEMBLY	A		-	-	4.523	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal 9) LM010 - MISSION PACKAGE INTEGRATION					4.523			-		-			-			-			-	
<b>10) LM012 - TRAINING EQUIPMENT</b>																				
10.1) MISSION PACKAGE TRAINING EQUIPMENT	A		-	-	-	-	-	8.793	-	-	2.600	-	-	17.700	-	-	-	-	-	17.700
Subtotal 10) LM012 - TRAINING EQUIPMENT					-			8.793			2.600			17.700			-		17.700	
<b>11) LM013 - MARITIME SECURITY MODULE</b>																				
† 11.1) MARITIME SECURITY MODULE	A		7,902K	1	7.902	2,500K	3	7.500	-	-	-	-	-	-	-	-	-	-	-	
11.2) PRODUCTION ENGINEERING	A		-	-	0.457	-	-	0.822	-	-	-	-	-	-	-	-	-	-	-	
Subtotal 11) LM013 - MARITIME SECURITY MODULE					8.359			8.322			-			-					-	
<b>12) LM015 - CONTAINERS (SHIPPING &amp; SUPPORT)</b>																				
† 12.1) MCM SUPPORT CONTAINER	A		-	-	-	-	-	-	1,082K	7	7.575	863,500.00	8	6.908	-	-	-	863,500.00	8	6.908
† 12.2) SUW SUPPORT CONTAINER	A		-	-	-	-	-	-	410,250.00	8	3.282	417,250.00	8	3.338	-	-	-	417,250.00	8	3.338
† 12.3) SUW SHIPPING CONTAINER	A		-	-	-	-	-	-	147,250.00	12	1.767	149,750.00	12	1.797	-	-	-	149,750.00	12	1.797
12.4) PRODUCTION ENGINEERING	A		-	-	-	-	-	-	-	-	1.091	-	-	1.155	-	-	-	-	-	1.155
Subtotal 12) LM015 - CONTAINERS (SHIPPING & SUPPORT)					-			-			13.715			13.198			-		13.198	
<b>13) LM900 - CONSULTING SERVICES</b>																				
13.1) CONSULTING SERVICES	A		-	-	5.819	-	-	3.048	-	-	0.989	-	-	0.975	-	-	-	-	-	0.975

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**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2014 Navy **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
 1810N: Other Procurement, Navy / BA 01: Ships Support  
 Equipment / BSA 15: Other Ship Support

**P-1 Line Item Nomenclature:**  
 1600 - LCS Common Mission Modules Equipment

**Aggregated Item Name:**  
 LCS MISSION MODULES

Items († indicates the presence of a P-5A)	ID CD	MDAP/ MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal 13) LM900 - CONSULTING SERVICES					5.819					0.989				0.975			-			0.975
<b>Total</b>					<b>223.148</b>					<b>31.319</b>				<b>45.966</b>			-			<b>45.966</b>

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Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Navy										Date: April 2013		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 15: Other Ship Support				P-1 Line Item Nomenclature: 1600 - LCS Common Mission Modules Equipment				Aggregated Item Name: LCS MISSION MODULES				
Items († indicates the presence of a P-21)	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>1) LM001 - MCM Mission Package</b>												
1.5) RMMV CRADLE		2012	NORTHROP GRUMMAN / BETHPAGE, NEW YORK	C / CPFF	NAVSEA	Mar 2013	Sep 2014	2	3,891K	Y		
1.8) ALMDS		2011	Northrup Grumman / Melbourne, Florida	SS / FFP	NSWC/PC	Mar 2012	Sep 2013	1	7,100K	Y		
1.12) MCM SUPPORT CONTAINERS		2011	NORTHROP GRUMMAN / BETHPAGE, NEW YORK	C / CPFF	NAVSEA	May 2012	Nov 2013	7	914,571.43	Y		Jun 2011
1.12) MCM SUPPORT CONTAINERS		2012	NORTHROP GRUMMAN / BETHPAGE, NEW YORK	C / CPFF	NAVSEA	Mar 2013	Sep 2014	8	988,875.00	Y		Feb 2012
<b>3) LM003 - SUW MISSION PACKAGE</b>												
3.1) GUN MODULE		2012	VARIOUS / VARIOUS	C / CPFF	NAVSEA	Mar 2013	Sep 2014	2	6,416K	Y		
3.2) SUW SHIPPING CONTAINER		2012	NORTHROP GRUMMAN / BETHPAGE, NEW YORK	C / CPFF	NAVSEA	Mar 2013	Sep 2014	6	144,833.33	Y		
3.3) SUW SUPPORT CONTAINER		2012	NORTHROP GRUMMAN / BETHPAGE, NEW YORK	C / CPFF	NAVSEA	Mar 2013	Sep 2014	4	403,250.00	Y		
<b>5) LM006 - LCS MISSION MODULES RADIO</b>												
5.1) LCS MISSION MODULES RADIO		2012	Harris Corporation / Melbourne, FL	C / CPFF	NSWC/PC	Jun 2013	Mar 2014	2	1,370K	Y		
5.1) LCS MISSION MODULES RADIO		2013	Harris Corporation / Melbourne, FL	C / CPFF	NSWC/PC	Jul 2013	Apr 2014	2	1,386K	Y		
5.1) LCS MISSION MODULES RADIO		2014	Harris Corporation / Melbourne, FL	C / TBD	NSWC/PC	Jan 2014	Jan 2014	2	1,403K	Y		
<b>7) LM008 - MPCE</b>												
7.1) MPCE		2012	Advanced Acoustic Concept / Columbia, MD	SS / CPFF	NAVSEA	Aug 2012	Aug 2013	2	800,500.00	Y		
7.1) MPCE		2013	Advanced Acoustic Concept / Columbia, MD	SS / CPFF	NAVSEA	Mar 2013	Mar 2014	4	779,500.00	Y		
7.1) MPCE		2014	Advanced Acoustic Concept / Columbia, MD	SS / CPFF	NAVSEA	Jan 2014	Jan 2015	4	766,000.00	Y		
<b>8) LM009 - DATA MISSION PAYLOAD</b>												
†8.1) DATA MISSION PAYLOAD		2011	NORTHROP GRUMMAN / BETHPAGE, NEW YORK	C / CPFF	NAVSEA	Aug 2012	Aug 2013	1	5,214K	Y		

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**Exhibit P-5A, Budget Procurement History and Planning:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 15: Other Ship Support	<b>P-1 Line Item Nomenclature:</b> 1600 - LCS Common Mission Modules Equipment	<b>Aggregated Item Name:</b> LCS MISSION MODULES
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Items <small>(† indicates the presence of a P-21)</small>	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <small>(Each)</small>	Unit Cost <small>(\$)</small>	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
†8.1) DATA MISSION PAYLOAD		2013	NORTHROP GRUMMAN / BETHPAGE, NEW YORK	C / CPFF	NAVSEA	Aug 2013	Aug 2014	1	5,502K	Y		
†8.1) DATA MISSION PAYLOAD		2014	TBD / TBD	C / TBD	NAVSEA	Mar 2014	Mar 2015	1	5,568K	Y		Mar 2013
<b>11) LM013 - MARITIME SECURITY MODULE</b>												
11.1) MARITIME SECURITY MODULE		2011	VARIOUS / VARIOUS	C / CPFF	NAVSEA	Jun 2012	Jun 2013	1	2,500K	Y		
11.1) MARITIME SECURITY MODULE		2012	VARIOUS / VARIOUS	C / CPFF	NAVSEA	May 2013	May 2014	3	2,500K	Y		
<b>12) LM015 - CONTAINERS (SHIPPING &amp; SUPPORT)</b>												
†12.1) MCM SUPPORT CONTAINER		2013	NORTHROP GRUMMAN / BETHPAGE, NEW YORK	C / CPFF	NAVSEA	Jun 2013	Dec 2014	7	1,082K	Y		
†12.1) MCM SUPPORT CONTAINER		2014	TBD / TBD	C / TBD	NAVSEA	Mar 2014	Sep 2015	8	863,500.00	N		Mar 2013
12.2) SUW SUPPORT CONTAINER		2013	NORTHROP GRUMMAN / BETHPAGE, NEW YORK	C / CPFF	NAVSEA	Jun 2013	Dec 2014	8	410,250.00	Y		
12.2) SUW SUPPORT CONTAINER		2014	TBD / TBD	C / TBD	NAVSEA	Mar 2014	Sep 2015	8	417,250.00	N		Mar 2013
12.3) SUW SHIPPING CONTAINER		2013	NORTHROP GRUMMAN / BETHPAGE, NEW YORK	C / CPFF	NAVSEA	Jun 2013	Dec 2014	12	147,250.00	Y		
12.3) SUW SHIPPING CONTAINER		2014	TBD / TBD	C / TBD	NAVSEA	Mar 2014	Sep 2015	12	149,750.00	N		Mar 2013

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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 15: Other Ship Support		<b>P-1 Line Item Nomenclature:</b> 1600 - LCS Common Mission Modules Equipment
		<b>Aggregated Item Name:</b> LCS MISSION MODULES

Items <i>(Units in Each)</i>						Fiscal Year 2012												Fiscal Year 2013															
O C C O	M F R #	FY	SERVICE <sup>±</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT 2011	BAL DUE AS OF 1 OCT	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	B A L		
8) LM009 - DATA MISSION PAYLOAD																																	
8.1) DATA MISSION PAYLOAD																																	
	16	2011	NAVY	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16	2013	NAVY	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17	2014	NAVY	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12) LM015 - CONTAINERS (SHIPPING & SUPPORT)																																	
12.1) MCM SUPPORT CONTAINER																																	
	18	2013	NAVY	7	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19	2014	NAVY	8	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
							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	B A L		



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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 15: Other Ship Support	<b>P-1 Line Item Nomenclature:</b> 1600 - LCS Common Mission Modules Equipment	<b>Aggregated Item Name:</b> LCS MISSION MODULES

MFR #	MFR Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR	1-8-5	MAX	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	NORTHROP GRUMMAN - BETHPAGE, NEW YORK	1.00	4.00	8.00	3	3	12	15	3	3	12	15
2	TBD - TBD	1.00	4.00	8.00	3	3	12	15	3	3	12	15
3	NORTHROP GRUMMAN - BETHPAGE, NEW YORK	1.00	7.00	20.00	3	3	18	21	3	3	18	21
4	TBD - TBD	1.00	7.00	20.00	3	3	18	21	3	3	18	21

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 15: Other Ship Support	<b>P-1 Line Item Nomenclature:</b> 1601 - LCS MCM Mission Modules
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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**MDAP/MAIS Code(s):** 374,443

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	-	38.392	59.885	-	59.885	185.017	219.795	219.818	223.744	1,565.489	2,512.140
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	0.000	-	38.392	59.885	-	59.885	185.017	219.795	219.818	223.744	1,565.489	2,512.140
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>0.000</b>	<b>-</b>	<b>38.392</b>	<b>59.885</b>	<b>-</b>	<b>59.885</b>	<b>185.017</b>	<b>219.795</b>	<b>219.818</b>	<b>223.744</b>	<b>1,565.489</b>	<b>2,512.140</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(Units in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(Units in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

The LCS Mine Countermeasures (MCM) mission package will counter bottom, deep, shallow, surface, near surface, and tethered mines in the littoral without putting Sailors in the minefield. When the MCM mission package is embarked, LCS is capable of conducting detect-to-engage operations (hunting, sweeping, and neutralization) against shallow and deep-water sea mine threats. The MCM mission package provides these capabilities through the use of sensors and weapons deployed from an embarked MH-60S multi-mission helicopter and unmanned off-board vehicles. The embarked MH-60S employs the Organic Airborne Mine Countermeasures Module to provide rapid minehunting and clearing using helicopter deployed systems. The Remote Minehunting Module uses a Remote Multi-Mission Vehicle (RMMV) to provide sustained minehunting and clearing from the surface. Additionally, an influence minesweeping capability can be deployed from both the helicopter and an unmanned surface vehicle. Future increments will add the Coastal Mine Reconnaissance Module (CMRM) to allow detection of minefield patterns and obstacles from an embarked Fire Scout VTUAV, an airborne surface influence sweep capability for high-speed influence minesweeping, and the Surface Mine Countermeasures Unmanned Undersea Vehicle (SMCM/UUV) to detect buried mines. When complete, the MCM mission package will provide full capability against floating, tethered, bottom, and buried mines. Two MCM mission packages (RDTE prior years) have been delivered and a third (OPN prior year) is in production.

A mission package is a combination of warfare mission modules with specialized crew, support equipment, and vehicles, including embarked manned helicopters and unmanned maritime systems. They are packaged in a modular fashion so that they can be quickly swapped in and out pier side on any LCS platform. The program has an inventory objective of 24 MCM mission packages, 24 SUW mission packages, and 16 ASW mission packages. Mission package procurement and delivery are aligned with the ship delivery schedule, mission area demand signal from the combatant commanders, and the retirement of legacy platforms. This means that 64 interchangeable mission packages will be available for use among the two seaframe variants of the LCS class to support global warfighting and peacetime presence requirements.

Other Related Budgets: BLIs: OPN 1600, OPN 1602, OPN 1603, OPN 4248, OPN 2622, OPN 2624, WPN 4221, WPN 4225, RDT&E 0603581N Project 3129

Prior to FY13, MCM mission module systems were funded under OPN BLI 1600.

OPN Quantities are:  
 Prior Years: MCM = 2

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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 15: Other Ship Support		<b>P-1 Line Item Nomenclature:</b> 1601 - LCS MCM Mission Modules
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
<b>MDAP/MAIS Code(s):</b> 374,443		
<p>FY 2012: MCM = 1  FY 2013: MCM = 1  FY 2014: MCM = 1  FY 2015: MCM = 2  FY 2016: MCM = 2  FY 2017: MCM = 2  FY 2018: MCM = 2</p> <p>RDT&amp;E Quantities are:  Prior Years: MCM = 2</p> <p>The MCM package consists of the following systems: Coastal Battlefield Reconnaissance &amp; Analysis (COBRA), Airborne Laser Mine Detection System (ALMDS), Organic Airborne &amp; 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), Surface mine Countermeasures (SMCM) Unmanned Undersea Vehicle (UUV) with Low Frequency Broad Band (LFBB) and Support Containers. The individual systems are combined into five modules: Unmanned Influence Sweep Module, Remote Mine Hunting Module, Organic Airborne Mine Countermeasures (OAMCM) Module, Coastal Mine Reconnaissance Module, and Unmanned Undersea Module.</p> <p>[P40A / MC001 - UNMANNED INFLUENCE MINE SWEEP]: The 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.</p> <p>[P40A / MC002 - REMOTE MINE HUNTING]: 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.</p> <p>[P40A / MC003 - ORGANIC AIRBORNE MINE COUNTERMEASURES (OAMCM)]: 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.</p> <p>[P40A / MC004 - COASTAL MINE RECONNAISSANCE MODULE]: 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.</p> <p>[P40A / MC005 - UNMANNED UNDERSEA MODULE]: The Unmanned Undersea Module provides capability to detect and identify buried mines and mines in a cluttered ocean bottom environment.</p> <p>[P40A / MC006 - MCM SUPPORT EQUIPMENT]: Support equipment related to the individual modules.</p> <p>[P40A / MC007 - MCM WHOLENESS SYSTEMS]: MCM Incremental Wholeness procures the individual mission systems required to bring previously acquired mission packages up to the incremental acquisition baseline.</p> <p>[P40A / MC900 - CONSULTING SERVICES]: Provides program management support, engineering and technical support, studies, analysis and evaluation on mission module systems.</p>		

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 15: Other Ship Support	<b>P-1 Line Item Nomenclature:</b> 1601 - LCS MCM Mission Modules
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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**MDAP/MAIS Code(s):** 374,443

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
LCS MCM Mission Packages	P40A, P5A, P21				0.000			-			38.392			59.885			-			59.885
<b>Total Gross/Weapon System Cost</b>					<b>0.000</b>			<b>-</b>			<b>38.392</b>			<b>59.885</b>			<b>-</b>			<b>59.885</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 15: Other Ship Support

**P-1 Line Item Nomenclature:**  
1601 - LCS MCM Mission Modules

**Aggregated Item Name:**  
LCS MCM Mission Packages

Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total			
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
<b>1) MC001 - UNMANNED INFLUENCE MINE SWEEP</b>																					
1.1) USV	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.2) USV - SWEEP	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.3) USV - CRADLE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.4) PRODUCTION ENGINEERING SUPPORT	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal 1) MC001 - UNMANNED INFLUENCE MINE SWEEP</i>					0.000			-		-		-		-		-		-		-	
<b>2) MC002 - REMOTE MINE HUNTING</b>																					
2.1) RMMV	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.2) RMMV - CRADLE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.3) PRODUCTION ENGINEERING SUPPORT	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal 2) MC002 - REMOTE MINE HUNTING</i>					0.000			-		-		-		-		-		-		-	
<b>3) MC003 - ORGANIC AIRBORNE MINE COUNTERMEASURES (OAMCM)</b>																					
† 3.1) OASIS	A		-	-	-	-	-	-	3,533K	1	3.533	-	-	-	-	-	-	-	-	-	
† 3.2) AMNS	A		-	-	-	-	-	-	2,800K	1	2.800	3,000K	1	3.000	-	-	-	-	3,000K	1	3.000
† 3.3) ALMDS	A		-	-	-	-	-	-	7,819K	1	7.819	7,951K	1	7.951	-	-	-	-	7,951K	1	7.951
† 3.4) AN/AQS-20A	A		-	-	-	-	-	-	7,900K	1	7.900	8,098K	1	8.098	-	-	-	-	8,098K	1	8.098
† 3.5) CABLE REWIND ASSEMBLY	A		-	-	-	-	-	-	864,000.00	1	0.864	879,000.00	1	0.879	-	-	-	-	879,000.00	1	0.879
3.6) PRODUCTION ENGINEERING SUPPORT	A		-	-	-	-	-	-	-	-	3.548	-	-	8.184	-	-	-	-	-	-	8.184
<i>Subtotal 3) MC003 - ORGANIC AIRBORNE MINE COUNTERMEASURES (OAMCM)</i>					-			-		26.464		-		28.112		-		-		28.112	
<b>4) MC004 - COASTAL MINE RECONNAISSANCE MODULE</b>																					
† 4.1) COBRA	A		-	-	-	-	-	-	-	-	-	8,359K	1	8.359	-	-	-	-	8,359K	1	8.359

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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 15: Other Ship Support

**P-1 Line Item Nomenclature:**  
1601 - LCS MCM Mission Modules

**Aggregated Item Name:**  
LCS MCM Mission Packages

Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total			
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
4.2) PRODUCTION ENGINEERING SUPPORT	A		-	-	-	-	-	-	-	-	-	-	-	1.254	-	-	-	-	-	1.254	
<i>Subtotal 4) MC004 - COASTAL MINE RECONNAISSANCE MODULE</i>					-									9.613						9.613	
<b>5) MC005 - UNMANNED UNDERSEA MODULE</b>																					
5.1) SMCM UUV/FLBB	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5.2) PRODUCTION ENGINEERING SUPPORT	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal 5) MC005 - UNMANNED UNDERSEA MODULE</i>					0.000									-						-	
<b>6) MC006 - MCM SUPPORT EQUIPMENT</b>																					
6.1) SUPPORT EQUIPMENT	A		-	-	-	-	-	-	-	-	2.301	-	-	4.001	-	-	-	-	-	4.001	
6.2) PRODUCTION ENGINEERING SUPPORT	A		-	-	-	-	-	-	-	-	0.622	-	-	0.617	-	-	-	-	-	0.617	
<i>Subtotal 6) MC006 - MCM SUPPORT EQUIPMENT</i>					-						2.923			4.618						4.618	
<b>7) MC007 - MCM WHOLENESS SYSTEMS</b>																					
† 7.1) MCM INCREMENTAL WHOLENESS - AQS-20A	A		-	-	-	-	-	-	7,900K	1	7.900	8,098K	2	16.196	-	-	-	-	8,098K	2	16.196
7.2) MCM INCREMENTAL WHOLENESS - AMNS	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal 7) MC007 - MCM WHOLENESS SYSTEMS</i>					0.000						7.900			16.196						16.196	
<b>8) MC900 - CONSULTING SERVICES</b>																					
8.1) CONSULTING SERVICES	A		-	-	-	-	-	-	-	-	1.105	-	-	1.346	-	-	-	-	-	1.346	
<i>Subtotal 8) MC900 - CONSULTING SERVICES</i>					-						1.105			1.346						1.346	
<b>Total</b>					<b>0.000</b>						<b>38.392</b>			<b>59.885</b>						<b>59.885</b>	

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**Exhibit P-5A, Budget Procurement History and Planning:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 15: Other Ship Support	<b>P-1 Line Item Nomenclature:</b> 1601 - LCS MCM Mission Modules	<b>Aggregated Item Name:</b> LCS MCM Mission Packages
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Items († indicates the presence of a P-21)	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>3) MC003 - ORGANIC AIRBORNE MINE COUNTERMEASURES (OAMCM)</b>												
3.1) OASIS		2013	ITT / Florida	SS / FFP	NAVSEA	Feb 2013	Aug 2014	1	3,533K	Y		
3.2) AMNS		2013	Raytheon / Portsmouth, RI	SS / FFP	NAVSEA	Jun 2013	Nov 2014	1	2,800K	Y		May 2012
3.2) AMNS		2014	Raytheon / Portsmouth, RI	SS / FFP	NAVSEA	Jun 2014	Nov 2015	1	3,000K	Y	Jan 2013	Jan 2013
†3.3) ALMDS		2013	TBD / TBD	C / FFP	NSWC/PC	Jun 2013	Dec 2014	1	7,819K	Y		Mar 2012
†3.3) ALMDS		2014	TBD / TBD	C / FFP	NSWC/PC	Jun 2014	Dec 2015	1	7,951K	Y		
†3.4) AN/AQS-20A		2013	TBD / TBD	C / FFP	NAVSEA	Jun 2013	Jun 2015	1	7,900K	Y		Jan 2012
†3.4) AN/AQS-20A		2014	TBD / TBD	C / TBD	NAVSEA	Jan 2014	Jan 2016	1	8,098K	Y		
3.5) CABLE REWIND ASSEMBLY		2013	Rolls Royce / Canada	C / FFP	NAVSEA	Mar 2013	Mar 2014	1	864,000.00	Y		Mar 2012
3.5) CABLE REWIND ASSEMBLY		2014	Rolls Royce / Canada	C / FFP	NAVSEA	Mar 2014	Mar 2015	1	879,000.00	N		
<b>4) MC004 - COASTAL MINE RECONNAISSANCE MODULE</b>												
†4.1) COBRA		2014	ARETE / TUCSON, AZ	C / FFP	NAVSEA	Mar 2014	Sep 2015	1	8,359K	Y		
<b>7) MC007 - MCM WHOLENESS SYSTEMS</b>												
†7.1) MCM INCREMENTAL WHOLENESS - AQS-20A		2013	TBD / TBD	C / FFP	NAVSEA	Jun 2013	Jun 2015	1	7,900K	Y		Jan 2012
†7.1) MCM INCREMENTAL WHOLENESS - AQS-20A		2014	TBD / TBD	C / FFP	NAVSEA	Jan 2014	Jan 2016	2	8,098K	Y		

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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 15: Other Ship Support		<b>P-1 Line Item Nomenclature:</b> 1601 - LCS MCM Mission Modules
		<b>Aggregated Item Name:</b> LCS MCM Mission Packages

Items <i>(Units in Each)</i>					Fiscal Year 2013													Fiscal Year 2014																
O C C O	M F R #	FY	SERVICE±	PROC QTY	ACCEP PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013													Calendar Year 2014														
							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	B A L			
3) MC003 - ORGANIC AIRBORNE MINE COUNTERMEASURES (OAMCM)																																		
3.3) ALMDS																																		
	20	2013	NAVY	1	-	1	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	20	2014	NAVY	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	1
3.4) AN/AQS-20A																																		
	21	2013	NAVY	1	-	1	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	21	2014	NAVY	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
4) MC004 - COASTAL MINE RECONNAISSANCE MODULE																																		
4.1) COBRA																																		
	22	2014	NAVY	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
7) MC007 - MCM WHOLENESS SYSTEMS																																		
7.1) MCM INCREMENTAL WHOLENESS - AQS-20A																																		
	23	2013	NAVY	1	-	1	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	23	2014	NAVY	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
							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	B A L			



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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 15: Other Ship Support	<b>P-1 Line Item Nomenclature:</b> 1601 - LCS MCM Mission Modules	<b>Aggregated Item Name:</b> LCS MCM Mission Packages

MFR #	MFR Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR	1-8-5	MAX	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	TBD - TBD	1.00	4.00	8.00	3	3	18	21	3	3	18	21
2	TBD - TBD	1.00	4.00	8.00	3	-	24	24	3	-	24	24
3	ARETE - TUCSON, AZ	2.00	6.00	12.00	-	-	18	18	-	-	18	18
4	TBD - TBD	1.00	4.00	8.00	3	-	24	24	3	-	24	24

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 15: Other Ship Support	<b>P-1 Line Item Nomenclature:</b> 1603 - LCS SUW Mission Modules
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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**MDAP/MAIS Code(s):** 374,443

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	32.897	37.168	-	37.168	40.042	46.282	67.581	68.791	187.246	480.007
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	32.897	37.168	-	37.168	40.042	46.282	67.581	68.791	187.246	480.007
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	-	<b>32.897</b>	<b>37.168</b>	-	<b>37.168</b>	<b>40.042</b>	<b>46.282</b>	<b>67.581</b>	<b>68.791</b>	<b>187.246</b>	<b>480.007</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

The Surface Warfare (SUW) mission package increases firepower and offensive/defensive capabilities against large numbers of highly maneuverable, fast, small craft threats, giving LCS the ability to protect the sea lanes and move a force quickly through a choke point or other strategic waterway. With the SUW mission package embarked, LCS has enhanced detection and engagement capability against enemy small craft and similar littoral surface threats. The SUW mission package is comprised of two high velocity 30mm cannons to augment the ship's 57mm gun, and embarked support aircraft (the MH-60R helicopter with Hellfire missile and the MQ-8B Fire Scout Vertical Take-off and Landing Tactical Unmanned Aerial Vehicle (VTUAV)) for the detection, identification, and classification of surface contacts. Two SUW mission packages have been delivered to the fleet (RDTE prior years) and two more are in production. Future SUW mission package increments include the addition of the Maritime Security Module to support the embarkation of Visit, Board, Search, and Seizure (VBSS) teams; an Irregular Warfare Module to provide an expanded medical and training capability; and a Surface-to-Surface Missile Module (SSMM) to provide in-close and eventually an over-the-horizon engagement capability against surface threats.

A mission package is a combination of warfare mission modules with specialized crew, support equipment, and vehicles, including embarked manned helicopters and unmanned maritime systems. They are packaged in a modular fashion so that they can be quickly swapped in and out pier side on any LCS platform. The program has an inventory objective of 24 MCM mission packages, 24 SUW mission packages, and 16 ASW mission packages. Mission package procurement and delivery are aligned with the ship delivery schedule, mission area demand signal from the combatant commanders, and the retirement of legacy platforms. This means that 64 interchangeable mission packages will be available for use among the two seaframe variants of the LCS class to support global warfighting and peacetime presence requirements.

Other Related Budgets: BLIs: OPN 1600, OPN 1601, OPN 1602, OPN 4248, OPN 2622, OPN 2624, WPN 4221, WPN 4225, RDT&E 0603581N Project 3129

Prior to FY13, SUW mission module systems were funded under OPN BLI 1600.

OPN Quantities are:  
Prior Years: SUW = 1  
FY 2012: SUW = 1

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 15: Other Ship Support	<b>P-1 Line Item Nomenclature:</b> 1603 - LCS SUW Mission Modules
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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**MDAP/MAIS Code(s):** 374,443

FY 2013: SUW = 2  
 FY 2014: SUW = 2  
 FY 2015: SUW = 2  
 FY 2016: SUW = 2  
 FY 2017: SUW = 2  
 FY 2018: SUW = 2

RDT&E Quantities are:  
 Prior Years: SUW = 3

[P40A / SU001 - GUN MODULE]: The Gun mission module is comprised of two high velocity 30mm cannons to augment the ship's 57mm gun, and embarked support aircraft (the MH-60R helicopter with Hellfire missile and the MQ-8B Fire Scout Vertical Take-off and Landing Tactical Unmanned Aerial Vehicle (VTUAV)) for the detection, identification, and classification of surface contacts.

[P40A / SU002 - SURFACE-TO-SURFACE MISSILE MODULE (SSMM)]: The Surface-to-Surface Missile Module (SSMM) will provide in-close and eventually an over-the-horizon engagement capability against surface threats.

[P40A / SU003 - MARITIME SECURITY MODULE]: The Maritime Security Module (MSM) provides the LCS seaframe 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.

[P40A / SU004 - IRREGULAR WARFARE]: The Irregular Warfare (IW) Module provides an expanded medical and training capability to the LCS Surface Warfare Mission Package. It includes the following IW medical and training enhancements: an Afloat Trauma Care (ATC) Medical Module; a Humanitarian Assistance/Health Services Support Medical Module; and a Training Module.

[P40A / SU900 - CONSULTING SERVICES]: Provides program management support, engineering and technical support, studies, analysis and evaluation on mission module systems.

Item Schedule		Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
LCS SUW Mission Packages	P40A, P5A, P21				0.000			-			32.897			37.168			-			37.168
<b>Total Gross/Weapon System Cost</b>					<b>0.000</b>			<b>-</b>			<b>32.897</b>			<b>37.168</b>			<b>-</b>			<b>37.168</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support  
Equipment / BSA 15: Other Ship Support

**P-1 Line Item Nomenclature:**  
1603 - LCS SUW Mission Modules

**Aggregated Item Name:**  
LCS SUW Mission Packages

Items († indicates the presence of a P-5A)	ID CD	MDAP/MAIS Code	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) SU001 - GUN MODULE</b>																				
† 1.1) GUN MODULE	A		-	-	-	-	-	-	6,525K	4	26.099	6,636K	4	26.543	-	-	-	6,636K	4	26.543
1.2) PRODUCTION ENGINEERING SUPPORT	A		-	-	-	-	-	-	-	-	3.058	-	-	2.745	-	-	-	-	-	2.745
<i>Subtotal 1) SU001 - GUN MODULE</i>					-	-	-	-	-	-	29.157	-	-	29.288	-	-	-	-	-	29.288
<b>2) SU002 - SURFACE-TO-SURFACE MISSILE MODULE (SSMM)</b>																				
2.1) SURFACE-TO-SURFACE MISSILE MODULE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.2) PRODUCTION ENGINEERING SUPPORT	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) SU002 - SURFACE-TO-SURFACE MISSILE MODULE (SSMM)</i>					-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>3) SU003 - MARITIME SECURITY MODULE</b>																				
† 3.1) MARITIME SECURITY MODULE	A		-	-	-	-	-	-	2,500K	1	2.500	2,500K	1	2.500	-	-	-	2,500K	1	2.500
3.2) PRODUCTION ENGINEERING	A		-	-	-	-	-	-	-	-	0.293	-	-	0.259	-	-	-	-	-	0.259
<i>Subtotal 3) SU003 - MARITIME SECURITY MODULE</i>					-	-	-	-	-	-	2.793	-	-	2.759	-	-	-	-	-	2.759
<b>4) SU004 - IRREGULAR WARFARE</b>																				
† 4.1) IRREGULAR WARFARE	A		-	-	-	-	-	-	-	-	-	4,000K	1	4.000	-	-	-	4,000K	1	4.000
4.2) PRODUCTION ENGINEERING SUPPORT	A		-	-	-	-	-	-	-	-	-	-	-	0.415	-	-	-	-	-	0.415
<i>Subtotal 4) SU004 - IRREGULAR WARFARE</i>					-	-	-	-	-	-	-	-	-	4.415	-	-	-	-	-	4.415
<b>5) SU900 - CONSULTING SERVICES</b>																				
5.1) CONSULTING SERVICES	A		-	-	-	-	-	-	-	-	0.947	-	-	0.706	-	-	-	-	-	0.706
<i>Subtotal 5) SU900 - CONSULTING SERVICES</i>					-	-	-	-	-	-	0.947	-	-	0.706	-	-	-	-	-	0.706
<b>Total</b>					<b>0.000</b>						<b>32.897</b>			<b>37.168</b>						<b>37.168</b>

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**Exhibit P-5A, Budget Procurement History and Planning:** PB 2014 Navy **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 15: Other Ship Support	<b>P-1 Line Item Nomenclature:</b> 1603 - LCS SUW Mission Modules	<b>Aggregated Item Name:</b> LCS SUW Mission Packages
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Items <small>(† indicates the presence of a P-21)</small>	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <small>(Each)</small>	Unit Cost <small>(\$)</small>	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>1) SU001 - GUN MODULE</b>												
†1.1) GUN MODULE		2013	VARIOUS / VARIOUS	C / CPFF	NAVSEA	Jun 2013	Dec 2014	4	6,525K	Y		
†1.1) GUN MODULE		2014	VARIOUS / VARIOUS	C / CPFF	NAVSEA	Mar 2014	Sep 2015	4	6,636K	N		
<b>3) SU003 - MARITIME SECURITY MODULE</b>												
†3.1) MARITIME SECURITY MODULE		2013	VARIOUS / VARIOUS	C / CPFF	NAVSEA	Jun 2013	Jun 2014	1	2,500K	Y		
†3.1) MARITIME SECURITY MODULE		2014	VARIOUS / VARIOUS	C / CPFF	NAVSEA	Feb 2014	Feb 2015	1	2,500K	N		
<b>4) SU004 - IRREGULAR WARFARE</b>												
4.1) IRREGULAR WARFARE		2014	TBD / TBD	C / TBD	NAVSEA	Mar 2014	Sep 2015	1	4,000K	N		

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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 15: Other Ship Support		<b>P-1 Line Item Nomenclature:</b> 1603 - LCS SUW Mission Modules
		<b>Aggregated Item Name:</b> LCS SUW Mission Packages

Items <i>(Units in Each)</i>						Fiscal Year 2013												Fiscal Year 2014															
O C C O	M F R #	FY	SERVICE±	PROC QTY	ACCEP PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013												Calendar Year 2014														
							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	B A L		
1) SU001 - GUN MODULE																																	
1.1) GUN MODULE																																	
	24	2013	NAVY	4	-	4	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
	24	2014	NAVY	4	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	4
3) SU003 - MARITIME SECURITY MODULE																																	
3.1) MARITIME SECURITY MODULE																																	
	25	2013	NAVY	1	-	1	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
	25	2014	NAVY	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	1	
							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	B A L		



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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 15: Other Ship Support	<b>P-1 Line Item Nomenclature:</b> 1603 - LCS SUW Mission Modules	<b>Aggregated Item Name:</b> LCS SUW Mission Packages

MFR #	MFR Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR	1-8-5	MAX	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	VARIOIUS - VARIOUS	2.00	8.00	12.00	2	2	18	20	2	2	18	20
2	VARIOIUS - VARIOUS	1.00	4.00	8.00	2	2	12	14	2	2	12	14

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

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**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support	<b>P-1 Line Item Nomenclature:</b> 1610 - LSD Midlife
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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**MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	408.171	132.733	49.758	77.974	-	77.974	-	-	-	-	13.602	682.238
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	408.171	132.733	49.758	77.974	-	77.974	-	-	-	-	13.602	682.238
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>408.171</b>	<b>132.733</b>	<b>49.758</b>	<b>77.974</b>	<b>-</b>	<b>77.974</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>13.602</b>	<b>682.238</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares <i>(\$ in Millions)</i>	-	0.069	0.146	-	-	-	-	-	-	-	-	0.215
Flyaway Unit Cost <i>(Units in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(Units in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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 (LPAC), Canned Lube Oil Pumps, A/C Plants and deck crane control systems.

Originally scheduled FY 13 midlife upgrade cancelled due to planned ship inactivation. Equipment procured in FY 12 will be installed in FY 14.

ST001 - The LSD Mid-life Program replaces obsolete/unsupported HM&E systems, and implements TOC savings upgrades to maintain amphibious warfare capabilities through DECOM (2038). These include items such as LPAC, Steering Control Systems (SCS), A/C-plants, Generators, Propulsion Load Management Units (PLMU), and Reverse Osmosis (RO) Desalinators.

Item Schedule		Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
		ID	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)		
1 - ST001 - Propeller Blades & PLMU	P3A						3.407			0.108			0.300			-			0.300
2 - ST001 - Steering Control System	P3A						9.750			6.694			4.304			-			4.304

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**Exhibit P-40, Budget Item Justification Sheet: PB 2014 Navy** **Date:** April 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support

**P-1 Line Item Nomenclature:**  
1610 - LSD Midlife

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:**

**MDAP/MAIS Code(s):**

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
3 - ST001 - A/C Plant (LSD 44 -52)	P3A				27.640			15.115			3.242			6.000			-			6.000
4 - ST001 - 30T Deck Crane Control Sys	P3A				6.300			-			4.427			4.700			-			4.700
5 - ST001 - Low Pressure Air Compressor	P3A				15.430			1.000			-			-			-			-
6 - ST001 - RO & Generators	P3A				302.334			101.581			34.252			57.693			-			57.693
7 - ST001 - Canned Lube Oil Pump	P3A				11.900			1.880			1.035			3.000			-			3.000
8 - ST001 - Tech Refresh	P3A				0.000			-			-			1.977			-			1.977
<b>Total Gross/Weapon System Cost</b>					<b>408.171</b>			<b>132.733</b>			<b>49.758</b>			<b>77.974</b>			<b>-</b>			<b>77.974</b>

Item Schedule		ID CD	FY 2015			FY 2016			FY 2017			FY 2018			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1 - ST001 - Propeller Blades & PLMU	P3A				-			-			-			-			1.800			19.567
2 - ST001 - Steering Control System	P3A				-			-			-			-			-			51.363
3 - ST001 - A/C Plant (LSD 44 -52)	P3A				-			-			-			-			7.802			59.799
4 - ST001 - 30T Deck Crane Control Sys	P3A				-			-			-			-			4.000			19.427
5 - ST001 - Low Pressure Air Compressor	P3A				-			-			-			-			-			16.430
6 - ST001 - RO & Generators	P3A				-			-			-			-			-			495.860
7 - ST001 - Canned Lube Oil Pump	P3A				-			-			-			-			-			17.815
8 - ST001 - Tech Refresh	P3A				-			-			-			-			-			1.977
<b>Total Gross/Weapon System Cost</b>					<b>-</b>			<b>-</b>			<b>-</b>			<b>-</b>			<b>13.602</b>			<b>682.238</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support	<b>P-1 Line Item Nomenclature:</b> 1610 - LSD Midlife	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - ST001 - Propeller Blades & PLMU

<b>Models of Systems Affected:</b> Propeller Blades & PLMU	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	13.952	3.407	0.108	0.300	-	0.300	-	-	-	-	1.800	19.567
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	13.952	3.407	0.108	0.300	-	0.300	-	-	-	-	1.800	19.567
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>13.952</b>	<b>3.407</b>	<b>0.108</b>	<b>0.300</b>	<b>-</b>	<b>0.300</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.800</b>	<b>19.567</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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 8 LSDs will require this SHIPALT as part of the Midlife Program.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support	<b>P-1 Line Item Nomenclature:</b> 1610 - LSD Midlife	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - ST001 - Propeller Blades & PLMU

<b>Models of Systems Affected:</b> Propeller Blades & PLMU	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
ST001 - Propeller Blades & PLMU												
B Kits												
Recurring												
1.1.1) FMP Ship Units - NonOrganic <sup>(1)</sup>	6 / 6.152	1 / 0.969	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.200	8 / 8.321
1.1.2) End Item Spares - Organic	- / -	2 / 1.938	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.938
<b>Subtotal Recurring</b>	<b>6 / 6.152</b>	<b>3 / 2.907</b>	<b>- / -</b>	<b>1 / 1.200</b>	<b>10 / 10.259</b>							
<i>Total, ST001 - Propeller Blades &amp; PLMU</i>	<i>6 / 6.152</i>	<i>3 / 2.907</i>	<i>- / -</i>	<i>1 / 1.200</i>	<i>10 / 10.259</i>							
<b>Total Procurement, All Modifications</b>	<b>6 / 6.152</b>	<b>3 / 2.907</b>	<b>- / -</b>	<b>1 / 1.200</b>	<b>10 / 10.259</b>							
<b>Total Procurement and Support</b>	<b>6.152</b>	<b>2.907</b>	<b>-</b>	<b>1.200</b>	<b>10.259</b>							
ST001 - Propeller Blades & PLMU Installation Cost	- / 7.800	- / 0.500	- / 0.108	- / 0.300	- / -	- / 0.300	- / -	- / -	- / -	- / -	- / 0.600	- / 9.308
<b>Total Installation Cost</b>	<b>- / 7.800</b>	<b>- / 0.500</b>	<b>- / 0.108</b>	<b>- / 0.300</b>	<b>- / -</b>	<b>- / 0.300</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / 0.600</b>	<b>- / 9.308</b>
<b>Total Cost (Procurement + Support + Installation)</b>	<b>13.952</b>	<b>3.407</b>	<b>0.108</b>	<b>0.300</b>	<b>-</b>	<b>0.300</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.800</b>	<b>19.567</b>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support	<b>P-1 Line Item Nomenclature:</b> 1610 - LSD Midlife	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 1 - ST001 - Propeller Blades & PLMU

<b>Models of Systems Affected:</b> Propeller Blades & PLMU	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information: ST001 - Propeller Blades &amp; PLMU</b>							
Manufacturer Name: Rolls Royce				Manufacturer Location: Walpole, MA			
Administrative Leadtime ( <i>in Months</i> ): 5				Production Leadtime ( <i>in Months</i> ): 13			
<b>Dates</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates	Feb 2012						
Delivery Dates	Mar 2013						

<b>Installation:</b> ST001 - Propeller Blades & PLMU	<b>Method of Implementation:</b> SHIPYARD/AIT	<b>Installation Name:</b> FMP Ship Units
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<b>Installation Cost</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO</b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
	<i>Qty (Each) / Total Cost (\$ M)</i>											
All Prior Years	5 / 7.800	1 / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 8.300
FY 2012	- / -	- / -	- / 0.108	1 / 0.300	- / -	1 / 0.300	- / -	- / -	- / -	- / -	- / -	1 / 0.408
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.600	1 / 0.600
<b>Total</b>	5 / 7.800	1 / 0.500	- / 0.108	1 / 0.300	- / -	1 / 0.300	- / -	- / -	- / -	- / -	1 / 0.600	8 / 9.308

<b>Installation Schedule</b>																															
	<b>APY</b>	<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>TC</b>	<b>Tot</b>
		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>																										
In	5	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	8
Out	5	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	8

<b>Installation:</b> ST001 - Propeller Blades & PLMU	<b>Method of Implementation:</b> Not Installed - End Item Spares	<b>Installation Quantity:</b> 2
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**Footnotes:**

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support	<b>P-1 Line Item Nomenclature:</b> 1610 - LSD Midlife	<b>Modification Nomenclature</b> <i>(Modification Number - Modification Title):</i> 1 - ST001 - Propeller Blades & PLMU
<b>Models of Systems Affected:</b> Propeller Blades & PLMU	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>

<sup>(1)</sup> Propeller Blades must be installed in the first two months of the availability when ship is in drydock. Blades and PLMU required for 8 remaining ships. 3 ships were completed by Congressional plus-up funding in OPN BLI 0981 budget. Costs differ slightly between LSD 41 and LSD 49 class ships.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support	<b>P-1 Line Item Nomenclature:</b> 1610 - LSD Midlife	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - ST001 - Steering Control System

<b>Models of Systems Affected:</b> Steering Control System	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	30.615	9.750	6.694	4.304	-	4.304	-	-	-	-	-	51.363
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	30.615	9.750	6.694	4.304	-	4.304	-	-	-	-	-	51.363
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>30.615</b>	<b>9.750</b>	<b>6.694</b>	<b>4.304</b>	<b>-</b>	<b>4.304</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>51.363</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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 Electronic Chart Display and Information Systems-Navy (ECDIS-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.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support	<b>P-1 Line Item Nomenclature:</b> 1610 - LSD Midlife	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - ST001 - Steering Control System

<b>Models of Systems Affected:</b> Steering Control System	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
ST001 - Steering Control System												
B Kits												
Recurring												
1.1.1) FMP Ship Units - NonOrganic <sup>(2)</sup>	9 / 8.250	1 / 0.717	1 / 0.820	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 9.787
1.1.2) Non-FMP Shore Site Units - NonOrganic <sup>(3)</sup>	- / -	2 / 1.433	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.433
<i>Subtotal Recurring</i>	9 / 8.250	3 / 2.150	1 / 0.820	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 11.220
<i>Total, ST001 - Steering Control System</i>	9 / 8.250	3 / 2.150	1 / 0.820	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 11.220
<i>Total Procurement, All Modifications</i>	9 / 8.250	3 / 2.150	1 / 0.820	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 11.220
<i>Total Procurement and Support</i>	8.250	2.150	0.820	-	-	-	-	-	-	-	-	11.220
ST001 - Steering Control System Installation Cost	- / 22.365	- / 7.600	- / 5.874	- / 4.304	- / -	- / 4.304	- / -	- / -	- / -	- / -	- / -	- / 40.143
<i>Total Installation Cost</i>	- / 22.365	- / 7.600	- / 5.874	- / 4.304	- / -	- / 4.304	- / -	- / -	- / -	- / -	- / -	- / 40.143
<b>Total Cost (Procurement + Support + Installation)</b>	<b>30.615</b>	<b>9.750</b>	<b>6.694</b>	<b>4.304</b>	<b>-</b>	<b>4.304</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>51.363</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support	<b>P-1 Line Item Nomenclature:</b> 1610 - LSD Midlife	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 2 - ST001 - Steering Control System

<b>Models of Systems Affected:</b> Steering Control System	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: ST001 - Steering Control System**

Manufacturer Name: Henschel	Manufacturer Location: Newburyport, MA
Administrative Leadtime ( <i>in Months</i> ): 4	Production Leadtime ( <i>in Months</i> ): 12

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Feb 2012	Oct 2012					
Delivery Dates	Feb 2013	Oct 2013					

**Installation: ST001 - Steering Control System**

**Method of Implementation:** SHIPYARD/AIT

**Installation Name:** FMP Ship Units

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	7 / 22.365	2 / 2.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 25.165
FY 2012	- / -	- / -	- / 1.786	1 / 2.152	- / -	1 / 2.152	- / -	- / -	- / -	- / -	- / -	1 / 3.938
FY 2013	- / -	- / -	- / 1.786	1 / 2.152	- / -	1 / 2.152	- / -	- / -	- / -	- / -	- / -	1 / 3.938
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	7 / 22.365	2 / 2.800	- / 3.572	2 / 4.304	- / -	2 / 4.304	- / -	- / -	- / -	- / -	- / -	11 / 33.041

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	-	2	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11
Out	5	-	-	-	2	-	-	2	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11



**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support	<b>P-1 Line Item Nomenclature:</b> 1610 - LSD Midlife	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - ST001 - A/C Plant (LSD 44 -52)

<b>Models of Systems Affected:</b> A/C Plant (LSD44-52)			<b>Type Modification:</b> [No Modification Type Specified]				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	27.640	15.115	3.242	6.000	-	6.000	-	-	-	-	7.802	59.799
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	27.640	15.115	3.242	6.000	-	6.000	-	-	-	-	7.802	59.799
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>27.640</b>	<b>15.115</b>	<b>3.242</b>	<b>6.000</b>	<b>-</b>	<b>6.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>7.802</b>	<b>59.799</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support	<b>P-1 Line Item Nomenclature:</b> 1610 - LSD Midlife	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - ST001 - A/C Plant (LSD 44 -52)

**Models of Systems Affected:** A/C Plant (LSD44-52)    **Type Modification:** [No Modification Type Specified]    **Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
ST001 - A/C Plant (LSD 44 -52)												
B Kits												
Recurring												
1.1.1) FMP Ship Units - NonOrganic <sup>(4)</sup>	6 / 3.940	1 / 0.472	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.500	8 / 4.912
1.1.2) Non-FMP Short Site Units - NonOrganic <sup>(5)</sup>	- / -	2 / 0.943	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.943
<i>Subtotal Recurring</i>	6 / 3.940	3 / 1.415	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.500	10 / 5.855
<i>Total, ST001 - A/C Plant (LSD 44 -52)</i>	6 / 3.940	3 / 1.415	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.500	10 / 5.855
<i>Total Procurement, All Modifications</i>	6 / 3.940	3 / 1.415	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.500	10 / 5.855
<i>Total Procurement and Support</i>	3.940	1.415	-	-	-	-	-	-	-	-	0.500	5.855
ST001 - A/C Plant (LSD 44 -52) Installation Cost	- / 23.700	- / 13.700	- / 3.242	- / 6.000	- / -	- / 6.000	- / -	- / -	- / -	- / -	- / 7.302	- / 53.944
<i>Total Installation Cost</i>	- / 23.700	- / 13.700	- / 3.242	- / 6.000	- / -	- / 6.000	- / -	- / -	- / -	- / -	- / 7.302	- / 53.944
<b>Total Cost (Procurement + Support + Installation)</b>	<b>27.640</b>	<b>15.115</b>	<b>3.242</b>	<b>6.000</b>	<b>-</b>	<b>6.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>7.802</b>	<b>59.799</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support	<b>P-1 Line Item Nomenclature:</b> 1610 - LSD Midlife	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 3 - ST001 - A/C Plant (LSD 44 -52)

<b>Models of Systems Affected:</b> A/C Plant (LSD44-52)	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information:</b> ST001 - A/C Plant (LSD 44 -52)	
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Manufacturer Name: York Marine	Manufacturer Location: York, PA
Administrative Leadtime ( <i>in Months</i> ): 5	Production Leadtime ( <i>in Months</i> ): 12

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Feb 2012						
Delivery Dates	Feb 2013						

<b>Installation:</b> ST001 - A/C Plant (LSD 44 -52)	<b>Method of Implementation:</b> SHIPYARD/AIT	<b>Installation Name:</b> FMP Ship Units
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	4 / 23.700	2 / 11.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 35.300
FY 2012	- / -	- / -	- / 1.242	1 / 6.000	- / -	1 / 6.000	- / -	- / -	- / -	- / -	- / -	1 / 7.242
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 7.302	1 / 7.302
Total	4 / 23.700	2 / 11.600	- / 1.242	1 / 6.000	- / -	1 / 6.000	- / -	- / -	- / -	- / -	1 / 7.302	8 / 49.844

Installation Schedule		FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
	APY	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	-	-	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	8
Out	2	-	-	-	2	-	-	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	8



**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support	<b>P-1 Line Item Nomenclature:</b> 1610 - LSD Midlife	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - ST001 - 30T Deck Crane Control Sys

<b>Models of Systems Affected:</b> 30T Deck Crane	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	6.300	-	4.427	4.700	-	4.700	-	-	-	-	4.000	19.427
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	6.300	-	4.427	4.700	-	4.700	-	-	-	-	4.000	19.427
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>6.300</b>	-	<b>4.427</b>	<b>4.700</b>	-	<b>4.700</b>	-	-	-	-	<b>4.000</b>	<b>19.427</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support	<b>P-1 Line Item Nomenclature:</b> 1610 - LSD Midlife	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - ST001 - 30T Deck Crane Control Sys

<b>Models of Systems Affected:</b> 30T Deck Crane	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
ST001 - 30T Deck Crane Control Sys												
B Kits												
Recurring												
1.1.1) FMP Ship Units - NonOrganic <sup>(6)</sup>	1 / 3.200	- / -	2 / 3.294	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.600	4 / 8.094
<i>Subtotal Recurring</i>	1 / 3.200	- / -	2 / 3.294	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.600	4 / 8.094
<i>Total, ST001 - 30T Deck Crane Control Sys</i>	1 / 3.200	- / -	2 / 3.294	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.600	4 / 8.094
<b>Total Procurement, All Modifications</b>	1 / 3.200	- / -	2 / 3.294	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.600	4 / 8.094
<b>Total Procurement and Support</b>	3.200	-	3.294	-	-	-	-	-	-	-	1.600	8.094
ST001 - 30T Deck Crane Control Sys Installation Cost	- / 3.100	- / -	- / 1.133	- / 4.700	- / -	- / 4.700	- / -	- / -	- / -	- / -	- / 2.400	- / 11.333
<i>Total Installation Cost</i>	- / 3.100	- / -	- / 1.133	- / 4.700	- / -	- / 4.700	- / -	- / -	- / -	- / -	- / 2.400	- / 11.333
<b>Total Cost (Procurement + Support + Installation)</b>	6.300	-	4.427	4.700	-	4.700	-	-	-	-	4.000	19.427

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support	<b>P-1 Line Item Nomenclature:</b> 1610 - LSD Midlife	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 4 - ST001 - 30T Deck Crane Control Sys

<b>Models of Systems Affected:</b> 30T Deck Crane	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information:</b> ST001 - 30T Deck Crane Control Sys	
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Manufacturer Name: Rockwell	Manufacturer Location: Milwaukee, WI
Administrative Leadtime ( <i>in Months</i> ): 6	Production Leadtime ( <i>in Months</i> ): 12

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates		Oct 2012					
Delivery Dates		Oct 2013					

<b>Installation:</b> ST001 - 30T Deck Crane Control Sys	<b>Method of Implementation:</b> SHIPYARD/AIT	<b>Installation Name:</b> FMP Ship Units
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	1 / 3.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.100
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / 1.133	2 / 4.700	- / -	2 / 4.700	- / -	- / -	- / -	- / -	- / -	2 / 5.833
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.400	1 / 2.400
Total	1 / 3.100	- / -	- / 1.133	2 / 4.700	- / -	2 / 4.700	- / -	- / -	- / -	- / -	1 / 2.400	4 / 11.333

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4
Out	-	-	-	-	1	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4

**Footnotes:**  
<sup>(6)</sup> Total Requirement is 4 for the Program. Congressional Add Funds procured 1 in PY. FY13 installation funding for FMP ship units is for install advance planning and DSA for FY14 installations.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support	<b>P-1 Line Item Nomenclature:</b> 1610 - LSD Midlife	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 5 - ST001 - Low Pressure Air Compressor

<b>Models of Systems Affected:</b> LPAC	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	15.430	1.000	-	-	-	-	-	-	-	-	-	16.430
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	15.430	1.000	-	-	-	-	-	-	-	-	-	16.430
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>15.430</b>	<b>1.000</b>	-	-	-	-	-	-	-	-	-	<b>16.430</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support	<b>P-1 Line Item Nomenclature:</b> 1610 - LSD Midlife	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 5 - ST001 - Low Pressure Air Compressor

<b>Models of Systems Affected:</b> LPAC	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
ST001 - Low Pressure Air Compressor												
B Kits												
Recurring												
1.1.1) FMP Ship Units - NonOrganic <sup>(7)</sup>	7 / 5.730	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 5.730
<i>Subtotal Recurring</i>	7 / 5.730	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 5.730
<i>Total, ST001 - Low Pressure Air Compressor</i>	7 / 5.730	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 5.730
<b>Total Procurement, All Modifications</b>	7 / 5.730	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 5.730
<b>Total Procurement and Support</b>	5.730	-	-	-	-	-	-	-	-	-	-	5.730
ST001 - Low Pressure Air Compressor Installation Cost	- / 9.700	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.700
<i>Total Installation Cost</i>	- / 9.700	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.700
<b>Total Cost (Procurement + Support + Installation)</b>	15.430	1.000	-	-	-	-	-	-	-	-	-	16.430

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support	<b>P-1 Line Item Nomenclature:</b> 1610 - LSD Midlife	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 5 - ST001 - Low Pressure Air Compressor

<b>Models of Systems Affected:</b> LPAC	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: ST001 - Low Pressure Air Compressor**

Manufacturer Name: RIX	Manufacturer Location: Benecia, CA
Administrative Leadtime ( <i>in Months</i> ): 5	Production Leadtime ( <i>in Months</i> ): 10

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates							
Delivery Dates							

**Installation: ST001 - Low Pressure Air Compressor**      **Method of Implementation:** SHIPYARD/AIT      **Installation Name:** FMP Ship Units

Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	6 / 9.700	1 / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 10.700
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	6 / 9.700	1 / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 10.700

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	6	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	5	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**Footnotes:**  
(7) 1 shipset equals 3 LPAC

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support		<b>P-1 Line Item Nomenclature:</b> 1610 - LSD Midlife
		<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 6 - ST001 - RO & Generators

<b>Models of Systems Affected:</b> RO Generator			<b>Type Modification:</b> [No Modification Type Specified]				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	302.334	101.581	34.252	57.693	-	57.693	-	-	-	-	-	495.860
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	302.334	101.581	34.252	57.693	-	57.693	-	-	-	-	-	495.860
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>302.334</b>	<b>101.581</b>	<b>34.252</b>	<b>57.693</b>	<b>-</b>	<b>57.693</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>495.860</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

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.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support	<b>P-1 Line Item Nomenclature:</b> 1610 - LSD Midlife	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 6 - ST001 - RO & Generators

<b>Models of Systems Affected:</b> RO Generator	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
ST001 - RO & Generators												
B Kits												
Recurring												
1.1.1) FMP Ship Units - NonOrganic <sup>(8)</sup>	9 / 93.443	1 / 11.128	1 / 12.731	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 117.302
1.1.2) Non-FMP Shore Site Units - NonOrganic <sup>(9)</sup>	- / -	2 / 22.256	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 22.256
<i>Subtotal Recurring</i>	9 / 93.443	3 / 33.384	1 / 12.731	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 139.558
<i>Total, ST001 - RO &amp; Generators</i>	9 / 93.443	3 / 33.384	1 / 12.731	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 139.558
<i>Total Procurement, All Modifications</i>	9 / 93.443	3 / 33.384	1 / 12.731	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 139.558
<i>Total Procurement and Support</i>	93.443	33.384	12.731	-	-	-	-	-	-	-	-	139.558
ST001 - RO & Generators Installation Cost	- / 208.891	- / 68.197	- / 21.521	- / 57.693	- / -	- / 57.693	- / -	- / -	- / -	- / -	- / -	- / 356.302
<i>Total Installation Cost</i>	- / 208.891	- / 68.197	- / 21.521	- / 57.693	- / -	- / 57.693	- / -	- / -	- / -	- / -	- / -	- / 356.302
<b>Total Cost (Procurement + Support + Installation)</b>	<b>302.334</b>	<b>101.581</b>	<b>34.252</b>	<b>57.693</b>	<b>-</b>	<b>57.693</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>495.860</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support	<b>P-1 Line Item Nomenclature:</b> 1610 - LSD Midlife	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 6 - ST001 - RO & Generators

<b>Models of Systems Affected:</b> RO Generator	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information:</b> ST001 - RO & Generators	
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Manufacturer Name: Aqua-Chem	Manufacturer Location: Knoxville, TN
Administrative Leadtime ( <i>in Months</i> ): 5	Production Leadtime ( <i>in Months</i> ): 12

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Feb 2012	Oct 2012					
Delivery Dates	Feb 2013	Oct 2013					

<b>Installation:</b> ST001 - RO & Generators	<b>Method of Implementation:</b> SHIPYARD/AIT	<b>Installation Name:</b> FMP Ship Units
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	7 / 208.891	2 / 54.447	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 263.338
FY 2012	- / -	- / -	- / 6.885	1 / 28.846	- / -	1 / 28.846	- / -	- / -	- / -	- / -	- / -	1 / 35.731
FY 2013	- / -	- / -	- / 6.886	1 / 28.847	- / -	1 / 28.847	- / -	- / -	- / -	- / -	- / -	1 / 35.733
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	7 / 208.891	2 / 54.447	- / 13.771	2 / 57.693	- / -	2 / 57.693	- / -	- / -	- / -	- / -	- / -	11 / 334.802

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	-	2	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	5	-	-	-	2	-	-	2	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support		<b>P-1 Line Item Nomenclature:</b> 1610 - LSD Midlife
		<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 6 - ST001 - RO & Generators

<b>Models of Systems Affected:</b> RO Generator	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> ST001 - RO & Generators	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> Non-FMP Shore Site Units
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	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	1 / 13.750	1 / 7.750	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 21.500
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	- / -	1 / 13.750	1 / 7.750	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 21.500

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
		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	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2			
Out	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2			

**Footnotes:**  
 (8) FY13 installation funding for FMP ship units is for install advance planning and DSA for FY14 installations.  
 (9) FY12 Non-FMP shore site installation funding covers advance planning and installation costs for one school house and advance planning for the second school house. FY13 Non-FMP shore site installation funding covers installation costs of the second school house.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support		<b>P-1 Line Item Nomenclature:</b> 1610 - LSD Midlife
		<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 7 - ST001 - Canned Lube Oil Pump

<b>Models of Systems Affected:</b> Canned Lube Oil Pump			<b>Type Modification:</b> [No Modification Type Specified]				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	11.900	1.880	1.035	3.000	-	3.000	-	-	-	-	-	17.815
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	11.900	1.880	1.035	3.000	-	3.000	-	-	-	-	-	17.815
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>11.900</b>	<b>1.880</b>	<b>1.035</b>	<b>3.000</b>	<b>-</b>	<b>3.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>17.815</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Procures and installs a lube oil pump for the ship service diesel generators.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support	<b>P-1 Line Item Nomenclature:</b> 1610 - LSD Midlife	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 7 - ST001 - Canned Lube Oil Pump

**Models of Systems Affected:** Canned Lube Oil Pump    **Type Modification:** [No Modification Type Specified]    **Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
ST001 - Canned Lube Oil Pump												
B Kits												
Recurring												
1.1.1) FMP Ship Units - NonOrganic <sup>(10)</sup>	9 / 6.300	1 / 0.780	1 / 0.820	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 7.900
<i>Subtotal Recurring</i>	9 / 6.300	1 / 0.780	1 / 0.820	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 7.900
<i>Total, ST001 - Canned Lube Oil Pump</i>	9 / 6.300	1 / 0.780	1 / 0.820	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 7.900
<b>Total Procurement, All Modifications</b>	9 / 6.300	1 / 0.780	1 / 0.820	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 7.900
<b>Total Procurement and Support</b>	6.300	0.780	0.820	-	-	-	-	-	-	-	-	7.900
ST001 - Canned Lube Oil Pump Installation Cost	- / 5.600	- / 1.100	- / 0.215	- / 3.000	- / -	- / 3.000	- / -	- / -	- / -	- / -	- / -	- / 9.915
<b>Total Installation Cost</b>	- / 5.600	- / 1.100	- / 0.215	- / 3.000	- / -	- / 3.000	- / -	- / -	- / -	- / -	- / -	- / 9.915
<b>Total Cost (Procurement + Support + Installation)</b>	11.900	1.880	1.035	3.000	-	3.000	-	-	-	-	-	17.815

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support		<b>P-1 Line Item Nomenclature:</b> 1610 - LSD Midlife
		<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 7 - ST001 - Canned Lube Oil Pump

<b>Models of Systems Affected:</b> Canned Lube Oil Pump	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information:</b> ST001 - Canned Lube Oil Pump	
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Manufacturer Name: IMO Pumps	Manufacturer Location: Monroe, NC
Administrative Leadtime ( <i>in Months</i> ): 4	Production Leadtime ( <i>in Months</i> ): 10

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Apr 2012	Nov 2012					
Delivery Dates	Feb 2013	Sep 2013					

<b>Installation:</b> ST001 - Canned Lube Oil Pump	<b>Method of Implementation:</b> SHIPYARD/AIT	<b>Installation Name:</b> FMP Ship Units
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	7 / 5.600	2 / 1.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 6.700
FY 2012	- / -	- / -	- / 0.107	1 / 1.500	- / -	1 / 1.500	- / -	- / -	- / -	- / -	- / -	1 / 1.607
FY 2013	- / -	- / -	- / 0.108	1 / 1.500	- / -	1 / 1.500	- / -	- / -	- / -	- / -	- / -	1 / 1.608
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	7 / 5.600	2 / 1.100	- / 0.215	2 / 3.000	- / -	2 / 3.000	- / -	- / -	- / -	- / -	- / -	11 / 9.915

Installation Schedule		FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot
	APY	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	-	-	2	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11
Out	5	-	-	-	2	-	-	2	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11

**Footnotes:**  
<sup>(10)</sup> Total requirement is 11. Congressional Add Funds procured 5 and installed 3 in PY. FY13 installation funding for FMP ship units is for install advance planning and DSA for FY14 installations. FY14 install costs have increased (added 4 sliding gate valves and their programmable logic controllers) to fix a low oil pressure problem that resulted in main propulsion diesel engine shutdowns causing a navigation/safety of ship hazard.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support	<b>P-1 Line Item Nomenclature:</b> 1610 - LSD Midlife	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 8 - ST001 - Tech Refresh

<b>Models of Systems Affected:</b> Tech Refresh			<b>Type Modification:</b> [No Modification Type Specified]				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	-	1.977	-	1.977	-	-	-	-	-	1.977
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	-	1.977	-	1.977	-	-	-	-	-	1.977
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	-	-	<b>1.977</b>	-	<b>1.977</b>	-	-	-	-	-	<b>1.977</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>Units in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Description:**

Upgrades to internal computer hardware and software on the Mid-Life Installed control systems for the Propulsion Load Management Unit (PLMU), Steering Control System and RO & Generators on the earlier installations of these systems in accordance with standard Navy Computer Control System Tech Refresh requirements.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support	<b>P-1 Line Item Nomenclature:</b> 1610 - LSD Midlife	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 8 - ST001 - Tech Refresh

<b>Models of Systems Affected:</b> Tech Refresh	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
<b>Procurement</b>												
ST001 - Tech Refresh												
B Kits												
Recurring												
1.1.1) Tech Refresh - NonOrganic	- / -	- / -	- / -	4 / 1.467	- / -	4 / 1.467	- / -	- / -	- / -	- / -	- / -	4 / 1.467
<i>Subtotal Recurring</i>	- / -	- / -	- / -	4 / 1.467	- / -	4 / 1.467	- / -	- / -	- / -	- / -	- / -	4 / 1.467
<i>Total, ST001 - Tech Refresh</i>	- / -	- / -	- / -	4 / 1.467	- / -	4 / 1.467	- / -	- / -	- / -	- / -	- / -	4 / 1.467
<i>Total Procurement, All Modifications</i>	- / -	- / -	- / -	4 / 1.467	- / -	4 / 1.467	- / -	- / -	- / -	- / -	- / -	4 / 1.467
<b>Total Procurement and Support</b>	-	-	-	1.467	-	1.467	-	-	-	-	-	1.467
ST001 - Tech Refresh Installation Cost	- / 0.000	- / -	- / -	- / 0.510	- / -	- / 0.510	- / -	- / -	- / -	- / -	- / -	- / 0.510
<i>Total Installation Cost</i>	- / 0.000	- / -	- / -	- / 0.510	- / -	- / 0.510	- / -	- / -	- / -	- / -	- / -	- / 0.510
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	-	-	<b>1.977</b>	-	<b>1.977</b>	-	-	-	-	-	<b>1.977</b>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2014 Navy		<b>Date:</b> April 2013
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 01: Ships Support Equipment / BSA 16: Logistic Support	<b>P-1 Line Item Nomenclature:</b> 1610 - LSD Midlife	<b>Modification Nomenclature</b> ( <i>Modification Number - Modification Title</i> ): 8 - ST001 - Tech Refresh

<b>Models of Systems Affected:</b> Tech Refresh	<b>Type Modification:</b> [No Modification Type Specified]	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information:</b> ST001 - Tech Refresh	
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Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime ( <i>in Months</i> ): 1	Production Leadtime ( <i>in Months</i> ): 3

Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates			Jan 2014				
Delivery Dates			Apr 2014				

<b>Installation:</b> ST001 - Tech Refresh	<b>Method of Implementation:</b> AIT	<b>Installation Name:</b> Tech Refresh
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Installation Cost	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
All Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	4 / 0.510	- / -	4 / 0.510	- / -	- / -	- / -	- / -	- / -	4 / 0.510
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	4 / 0.510	- / -	4 / 0.510	- / -	- / -	- / -	- / -	- / -	4 / 0.510

**Installation Schedule**

	APY	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				TC	Tot			
		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	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
Out	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4