

DEPARTMENT OF THE NAVY  
FISCAL YEAR (FY) 2008/2009  
BIENNIAL BUDGET



JUSTIFICATION OF ESTIMATES  
FEBRUARY 2007

SHIPBUILDING AND CONVERSION, NAVY

UNCLASSIFIED  
DEPARTMENT OF THE NAVY  
FY 2008 PROCUREMENT PROGRAM

19 JAN 2007

SUMMARY  
(\$ IN MILLIONS)

APPROPRIATION: SHIPBUILDING & CONVERSION, NAVY

ACTIVITY -----	FY 2006 -----	FY 2007 -----	FY 2008 -----
02. OTHER WARSHIPS	6,540.5	8,382.1	9,817.1
03. AMPHIBIOUS SHIPS	1,895.4	1,510.8	2,776.3
05. AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRAM COSTS	2,934.2	643.8	1,062.7
TOTAL SHIPBUILDING & CONVERSION, NAVY	11,370.1	10,536.6	13,656.1

UNCLASSIFIED

DEPARTMENT OF THE NAVY  
 FY 2008 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 1611N SHIPBUILDING & CONVERSION, NAVY

DATE: 19 JAN 2007

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2006		FY 2007		FY 2008		S E C
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
BUDGET ACTIVITY 02: OTHER WARSHIPS									
-----									
OTHER WARSHIPS									
1	CARRIER REPLACEMENT PROGRAM	A		(143.6)		(870.9)	1	(5,864.8)	U
	LESS: ADVANCE PROCUREMENT (PY)					(-552.5)		(-3,140.9)	U
				-----		-----		-----	
				143.6		318.4		2,724.0	
2	CARRIER REPLACEMENT PROGRAM								
	ADVANCE PROCUREMENT (CY)			618.9		788.6		124.4	U
	(FY 2006 FOR FY 2008) (MEMO)			(618.9)					
	(FY 2007 FOR FY 2008) (MEMO)					(736.0)			
	(FY 2007 FOR FY 2012) (MEMO)					(52.5)			
	(FY 2008 FOR FY 2012) (MEMO)							(124.4)	
3	VIRGINIA CLASS SUBMARINE	B	1	(2,555.9)	1	(2,716.9)	1	(2,649.3)	U
	LESS: ADVANCE PROCUREMENT (PY)			(-760.2)		(-837.9)		(-853.1)	U
				-----		-----		-----	
				1,795.6		1,879.0		1,796.2	
4	VIRGINIA CLASS SUBMARINE								
	ADVANCE PROCUREMENT (CY)			754.0		673.7		702.7	U
	(FY 2006 FOR FY 2007) (MEMO)			(254.4)					
	(FY 2006 FOR FY 2008) (MEMO)			(499.6)					
	(FY 2007 FOR FY 2008) (MEMO)					(212.7)			
	(FY 2007 FOR FY 2009) (MEMO)					(461.0)			
	(FY 2008 FOR FY 2009) (MEMO)							(224.6)	
	(FY 2008 FOR FY 2010) (MEMO)							(478.1)	
5	SSGN CONVERSION	A		(330.4)					U
	LESS: ADVANCE PROCUREMENT (PY)			(-47.8)					U
				-----		-----		-----	
				282.6					

## UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 2008 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 1611N SHIPBUILDING &amp; CONVERSION, NAVY

DATE: 19 JAN 2007

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2006		FY 2007		FY 2008		S E C
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
6	CVN REFUELING OVERHAULS LESS: ADVANCE PROCUREMENT (PY)	A	1	(2,593.5) (-1,292.9)		(950.5)			U U
				1,300.6		950.5			
7	CVN REFUELING OVERHAULS ADVANCE PROCUREMENT (CY) (FY 2006 FOR FY 2010) (MEMO) (FY 2007 FOR FY 2010) (MEMO) (FY 2008 FOR FY 2010) (MEMO)			19.7 (19.7)		116.6 (116.6)		297.3 (297.3)	U
8	SSN ERO LESS: ADVANCE PROCUREMENT (PY)	A		(62.9) (-62.9)		(4.0) (-4.0)			U U
9	SSBN ERO LESS: ADVANCE PROCUREMENT (PY)		1	(361.4) (-134.4)	1	(249.2) (-61.0)	1	(222.9) (-35.2)	U U
				227.0		188.2		187.7	
10	SSBN ERO ADVANCE PROCUREMENT (CY) (FY 2006 FOR FY 2007) (MEMO) (FY 2006 FOR FY 2008) (MEMO) (FY 2007 FOR FY 2008) (MEMO) (FY 2007 FOR FY 2009) (MEMO) (FY 2008 FOR FY 2009) (MEMO) (FY 2008 FOR FY 2010) (MEMO)			61.5 (57.0) (4.5)		37.0 (30.8) (6.2)		42.7 (37.0) (5.7)	U
11	DDG 1000 LESS: ADVANCE PROCUREMENT (PY)	A			2	(3,567.6) (-1,010.3)		(2,802.6)	U U
						2,557.3		2,802.6	
12	DDG 1000 ADVANCE PROCUREMENT (CY) (FY 2006 FOR FY 2007) (MEMO) (FY 2008 FOR FY 2009) (MEMO)			706.2 (706.2)				150.9 (150.9)	U
13	DDG-51	A		147.4		354.3		78.1	U
14	DDG MODERNIZATION PROGRAM			49.3					U

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## UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 2008 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 1611N SHIPBUILDING &amp; CONVERSION, NAVY

DATE: 19 JAN 2007

## MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2006		FY 2007		FY 2008		S E C
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
15	LITTORAL COMBAT SHIP	A	2	434.0	2	518.5	3	910.5	U
TOTAL OTHER WARSHIPS				6,540.5		8,382.1		9,817.1	
BUDGET ACTIVITY 03: AMPHIBIOUS SHIPS									
-----									
AMPHIBIOUS SHIPS									
16	LHD-1 AMPHIBIOUS ASSAULT SHIP	A		232.7					U
17	LPD-17	A	1	(1,520.9)		(86.9)	1	(1,698.8)	U
	LESS: ADVANCE PROCUREMENT (PY)			(-6.6)		(-3.5)		(-299.9)	U
				-----		-----		-----	
				1,514.3		83.4		1,398.9	
18	LPD-17					296.2			U
	ADVANCE PROCUREMENT (CY)					(296.2)			
	(FY 2007 FOR FY 2008) (MEMO)								
19	LHA REPLACEMENT	A			1	(1,428.8)		(1,377.4)	U
	LESS: ADVANCE PROCUREMENT (PY)					(-297.7)			U
				-----		-----		-----	
						1,131.1		1,377.4	
20	LHA REPLACEMENT								U
	ADVANCE PROCUREMENT (CY)			148.4					
	(FY 2006 FOR FY 2007) (MEMO)			(148.4)					
				-----		-----		-----	
TOTAL AMPHIBIOUS SHIPS				1,895.4		1,510.8		2,776.3	
BUDGET ACTIVITY 05: AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRAM COSTS									
-----									
AUXILIARIES, CRAFT AND PRIOR YR PROGRAM COST									
21	SPECIAL PURPOSE	A				2.9			U
22	OCEANOGRAPHIC SHIPS	A			1	116.5			U
23	OUTFITTING	A		372.1		369.1		419.8	U
24	SERVICE CRAFT	A		44.8		45.1		32.9	U
25	LCAC SLEP	A	6	98.6	6	110.2	5	98.5	U

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DEPARTMENT OF THE NAVY  
 FY 2008 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 1611N SHIPBUILDING & CONVERSION, NAVY

DATE: 19 JAN 2007

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2006		FY 2007		FY 2008		S E C
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
26	COMPLETION OF PY SHIPBUILDING PROGRAMS	B		(2,418.7)			(511.5)	U	
	SSN-774 (MEMO NON ADD)						(109.0)	U	
	LPD (MEMO NON ADD)						(66.0)	U	
				-----		-----	-----		
				2,418.7			511.5		
				-----		-----	-----		
	TOTAL AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRAM COSTS			2,934.2		643.8	1,062.7		
				-----		-----	-----		
	TOTAL SHIPBUILDING & CONVERSION, NAVY			11,370.1		10,536.6	13,656.1		

## Department of Defense Appropriations Act, 2007

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### Shipbuilding and Conversion, Navy

For expenses necessary for the construction, acquisition, or conversion of vessels as authorized by law, including armor and armament thereof, plant equipment, appliances, and machine tools and installation thereof in public and private plants; reserve plant and Government and contractor-owned equipment layaway; procurement of critical, long leadtime components and designs for vessels to be constructed or converted in the future; and expansion of public and private plants, including land necessary therefor, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title, as follows:

- Carrier Replacement Program (AP), \$791,893,000;
- NSSN, \$1,775,472,000;
- NSSN (AP), \$676,582,000;
- CVN Refuelings, \$954,495,000;
- CVN Refuelings (AP), \$117,139,000;
- SSBN Submarine Refuelings, \$189,022,000;
- SSBN Submarine Refuelings (AP), \$37,154,000;
- DDG-1000 Program, \$2,568,111,000;
- DDG-51 Destroyer, \$355,849,000;
- Littoral Combat Ship, \$520,670,000;
- LPD-17 (AP), \$297,492,000;
- LHA-R, \$1,135,917,000;
- Special Purpose Craft, \$2,900,000;
- T-AGS Oceanographic Survey Ship, \$117,000,000;
- LCAC Service Life Extension Program, \$110,692,000;
- Prior year shipbuilding costs, \$512,849,000;
- Service Craft, \$45,245,000; and

For outfitting, post delivery, conversions, and first destination transportation, \$370,643,000.

In all: \$10,579,125,000, to remain available for obligation until September 30, 2011: *Provided*, That additional obligations may be incurred after September 30, 2011, for engineering services, tests, evaluations, and other such budgeted work that must be performed in the final stage of ship construction: *Provided further*, That none of the funds provided under this heading for the construction or conversion of any naval vessel to be constructed in shipyards in the United States shall be expended in foreign facilities for the construction of major components of such vessel: *Provided further*, That none of the funds provided under this heading shall be used for the construction of any naval vessel in foreign shipyards.

**"In accordance with the President's Management Agenda, Budget and Performance Integration initiative, this program has been assessed using the Program Assessment Rating Tool (PART). Remarks regarding program performance and plans for performance improvement can be located at the Expectmore.gov website."**

## Status of Completion of Prior Year Shipbuilding Programs

	Uncompleted as of 31 December 2006	To be Completed In FY 2007	To Be Completed In FY 2008	Completed In FY 2009 and Beyond
<b>FY 2000</b>				
Ships	2	1	1	0
New Construction	2	1	1	0
Conversion	0	0	0	0
<b>FY 2001</b>				
Ships	1	0	0	1
New Construction	1	0	0	1
Conversion	0	0	0	0
<b>FY 2002</b>				
Ships	5	1	4	0
New Construction	5	1	4	0
Conversion	0	0	0	0
<b>FY 2003</b>				
Ships	4	0	1	3
New Construction	4	0	1	3
Conversion	0	0	0	0
<b>FY 2004</b>				
Ships	5	0	0	5
New Construction	5	0	0	5
Conversion	0	0	0	0
<b>FY 2005</b>				
Ships	6	1	0	5
New Construction	5	0	0	5
Conversion	1	1	0	0
<b>FY 2006</b>				
Ships	4	0	0	4
New Construction	4	0	0	4
Conversion	0	0	0	0

## Status of Completion of Prior Year Shipbuilding Programs

	Uncompleted as of 31 December 2006	To be Completed In FY 2007	To Be Completed In FY 2008	Completed In FY 2009 and Beyond
<b>FY 2007</b>				
Ships	6	0	0	6
New Construction	6	0	0	6
Conversion	0	0	0	0

**BUDGET ITEM JUSTIFICATION SHEET (P-40)  
FY 2008/ FY 2009 President's Budget**

DATE:  
February 2007

APPROPRIATION/BUDGET ACTIVITY	BA #2 OTHER WARSHIPS					P-1 ITEM NOMENCLATURE CARRIER REPLACEMENT PROGRAM BLI: 200100					TOTAL PROGRAM
	PRIOR YEARS	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	TO COMPLETE	
QUANTITY	9	-	-	1				1		1	12.0
End Cost	26,156.1	0.0	0.0	10,488.9				9,192.0		10,716.8	56,553.9
Cost to Complete		143.6	318.4	336.5						TBD	798.5
Less Advance Procurement	2,821.3	0.0	0.0	3,693.4				2,661.4		3,213.1	12,389.2
Less Pending Cost to Complete	0.0			336.5						TBD	336.5
Less Consequent Funds	0.0	0.0	0.0	4,071.6				3,192.3		3,851.9	11,115.8
Less Escalation	66.4	0.0	0.0	0.0				0.0		TBD	66.4
Less Transfer	1,278.6	0.0	0.0	0.0				0.0		TBD	1,278.6
Less Subsequent Year FF	88.2	0.0	0.0	0.0				0.0			88.2
Consequent Funds	0.0			0.0	4,071.6			0.0	3,192.3	3,851.9	11,115.8
Subsequent Year FF	88.2										88.2
Full Funding TOA	21,901.6	143.6	318.4	2,724.0	4,071.6	0.0	0.0	3,338.3	3,192.3	3,651.8	39,341.5
Plus Advance Procurement	5,555.3	618.9	788.6	124.4	399.0	1,620.5	465.0	201.3	522.9	2,488.9	12,784.8
Total Obligational Authority	27,456.9	762.5	1,107.0	2,848.4	4,470.6	1,620.5	465.0	3,539.6	3,715.1	9,992.6	55,978.2
Plus Outfitting and Post Delivery	60.0	11.1	34.5	30.8	40.2				31.5	140.6	348.7
Plus Escalation	66.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.4
Total	27,583.2	773.6	1,141.5	2,879.2	4,510.8	1,620.5	465.0	3,539.6	3,746.6	10,133.3	56,393.3
Unit Cost (Ave. End Cost)	2,906.2	0.0	0.0	10,488.9	0.0	0.0	0.0	9,192.0	0.0	10,716.8	4,712.8

**Mission:**  
To provide credible, sustainable, independent forward presence during peacetime without access to land bases; operate as the cornerstone of a joint and/or allied maritime expeditionary force in response to crisis; and carry the war to the enemy through joint multi-mission offensive operations

**Characteristics:**  
Hull:  
Length overall: 1092'  
Beam: 134'  
Displacement: 97,337 Tons  
Draft: 38.7'

**CVN 77 Production Status:**  
Contract Award: 01/2001 (revised 2004)  
Months to Complete:  
Award to Delivery: 93  
Construction: 62  
Delivery Date: 04/2008  
Completion of Fitting Out: 02/2009  
OWLD: 01/2010

**CVN 78 Production Status:**  
Contract Award: 12/2007  
Months to Complete:  
Award to Delivery: 93  
Construction: 64  
Delivery Date: 09/2015  
Completion of Fitting Out: 11/2015  
OWLD: 10/2016

**CVN 77: SUBHD 6210**  
**Major Electronics:**  
Radio Communication System  
Ship Self Defense System  
CATCC DAIR (TPX 42)  
A/N SPN 41 ILS  
A/N SPN 46 Aircraft Landing Radar  
Carrier Intelligence Center  
CEC (AN/USG-2)  
SPS-48E  
SPS-49A  
NSWPC  
RAM - Rolling Airframe Missile

**CVN 78: SUBHD 6231**  
**Major Electronics/Ordnance:**  
Ship Self Defense System (SSDS)  
Electromagnetic Aircraft Launching System (EMALS)  
Dual Band Radar (DBR)  
Advanced Arresting Gear (AAG)

DD Form 2454, JUL 88

UNCLASSIFIED  
CLASSIFICATION

P-5 EXHIBIT  
FY 2008/ FY 2009 President's Budget  
February 2007

APPROPRIATION: SHIPBUILDING AND  
CONVERSION, NAVY

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

BUDGET ACTIVITY: 2 OTHER WARSHIPS		P-1 ITEM NOMENCLATURE: CARRIER REPLACEMENT PROGRAM		BLI: 200100	
		SUBHEAD: 6210		SUBHEAD: 6231	
		FY 2001		FY 2008	
		CVN 77		CVN 78	
ELEMENT OF COST	QTY	TOT COST	QTY	TOT COST	
PLAN COSTS	1		1	2,354,873	
BASIC CONST/CONVERSION		3,806,071		4,726,502	
CHANGE ORDERS		176,054		235,601	
ELECTRONICS		246,954		375,605	
PROPULSION EQUIPMENT		695,870		1,515,612	
HM&E		48,343		54,518	
OTHER COST		69,659		78,048	
ORDNANCE		188,701		696,848	
ESCALATION		590,507		451,330	
<b>TOTAL SHIP ESTIMATE</b>		<b>5,822,159</b>		<b>10,488,937</b>	
Less: (FY 1998) ADVANCE PROCUREMENT		48,737			
Less: (FY 1999) ADVANCE PROCUREMENT		122,897			
Less: (FY 2000) ADVANCE PROCUREMENT		747,503			
Less: (FY 2001) ADVANCE PROCUREMENT				21,668	
Less: (FY 2002) ADVANCE PROCUREMENT				135,341	
Less: (FY 2003) ADVANCE PROCUREMENT				395,493	
Less: (FY 2004) ADVANCE PROCUREMENT				1,162,905	
Less: (FY 2005) ADVANCE PROCUREMENT				623,073	
Less: (FY 2006) ADVANCE PROCUREMENT				618,884	
Less: (FY 2007) ADVANCE PROCUREMENT				736,023	
Less: (FY 2003) SUBSEQUENT FULL FUNDING		88,170			
Less: (FY 2009) CONSEQUENT FULL FUNDING				4,071,597	
Less: (FY 2006) COST TO COMPLETE		143,573			
Less: (FY 2007) COST TO COMPLETE		318,400			
Less: (FY 2008) COST TO COMPLETE		336,475			
<b>NET P-1 LINE ITEM</b>		<b>4,016,404</b>		<b>2,723,953</b>	

SHIPBUILDING AND CONVERSION, NAVY  
 Analysis of Ship Cost Estimates - Basic/Escalation  
 Ship Type: CVN 21 Class

P-5B  
 FY 2008/ FY 2009 President's Budget  
 February 2007

	<u>Start/Issue</u>	<u>Complete/Response</u>	
<u>I. Design Schedule</u>			
Issue date for TLR	APRIL 04		
Issue date for TLS	SEPT 06		
Preliminary Design	N/A	N/A	
Contract Design	MAY 04	TBD	
Request for Proposals	MAY 07	JUL 07	
Design Agent	Northrop Grumman Newport News		
 <u>II. Classification of Cost Estimate</u>			
	Class C		
 <u>III. Basic Construction/Conversion</u>			
A. Award Date			<u>FY2008</u>
B. Contract Type (and Share Line if applicable)			DEC 07 TBD
 <u>IV. Escalation</u>			
Escalation Termination Date		Sep-15	
Escalation Requirement (with FCOM)		451,330	
Labor/Material Split		62.9%/37.1%	
Allowable Overhead Rate		159.0%	

V. Other Basic (Reserves/Miscellaneous)     Amount  
 None

Notes:

- a. Escalation only. FCOM associated with the Basic Construction is in the "BASIC" portion of the P-5.
- b. Information is contingent on the contract type, which is yet to be determined.

CLASSIFICATION

SHIPBUILDING AND CONVERSION, NAVY  
SHIP PRODUCTION SCHEDULE

EXHIBIT P-27  
FY 2008/ FY 2009 President's Budget  
February 2007

SHIP TYPE	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
CVN 77	NORTHROP GRUMMAN NEWPORT NEWS	2001	Jan 01	Sep 98	Apr 08
CVN 78	NORTHROP GRUMMAN NEWPORT NEWS	2008	Dec 07	Mar 08	Sept 15
CVN 79	NORTHROP GRUMMAN NEWPORT NEWS	2012	Dec 11	Mar 12	Sept 19

**SHIPBUILDING AND CONVERSION, NAVY**  
**Analysis of Ship Cost Estimates - Major Equipment**  
**(Dollars in Thousands)**

**Ship Type: Carrier Replacement Program**

	<b>FY 2001 CVN 77 TOTAL COST</b>	<b>FY 2008 CVN 78 TOTAL COST</b>
<b>ELECTRONIC EQUIPMENT</b>		
<b>a. P-35 Items</b>		
Automated Radio Communications (ARC)	16,681	-
Integrated Strike Planning & Execution Systems (ISP&E)	-	26,528
Joint Tactical Radio System-Airborne/Maritime Fixed Station (JTTRS-AMF), Increment II	-	23,141
AN/USQ-T46X(V)X, Battle Force Tactical Training System (BFTT)	5,882	8,362
AN/USQ-123(V) , Communications Data Link-System (CDL-S)	7,197	8,571
SPAWAR Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) Coordination and Turnkey Radio Communication System (RCS)	-	33,627
AN/USG-2, Cooperative Engagement Capability (CEC)	6,969	12,844
Distributed Common Ground Station - Navy (DCGS-N)	23,986	7,102
Digital Modular Radio (DMR) Ultra High Frequency/Very High Frequency Line of Sight (EHF/VHF LOS) SATCOM	11,324	-
AN/USQ-119(V)4, Global Command and Control System - Maritime (GCCS-M)	11,596	11,700
The Shipboard Video Distribution System (SVDS)		3,950
High Frequency Radio Group (HFRG)	4,409	-
AN/UPX-29(V), Interrogator Friend or Foe (IFF) w/MK XII	4,814	10,513
AN/USQ-153 C4I Networks, Unclassified/Classified Integrated Shipboard Network System (ISNS)	13,275	12,840
AN/SLQ-32(V), Electronic Warfare System (EWS)	6,858	12,668
AN/SPN-41(V), Instrument Landing System (ILS)	3,370	5,243
SPN-46, Automatic Carrier Landing System	9,463	-
MK 2 MOD 1B, Ships Self Defense System (SSDS)	41,840	-
MK 2 MOD 1C Ship Self-Defense System (SSDS)		99,546
AN/SRQ-6/MCS-21, Ships Signal Exploitation Equipment Increment E (SSEE)	5,522	7,424
Ship Signal Exploitation Space (SSES/SI) Communications	3,350	4,451
AN/TPX-42A(V)14, Carrier Air Traffic Control Center - Direct Altitude and Identify Readout (CATCC-DAIR)	-	5,959
AN/SSN-6(V)X Block 4, Navigation Sensor System Interface (NAVSSI)	-	4,338
AN/WSN-7(V)3, Ring Laser Gyro Navigator (RLGN)	-	4,119
Turnkey Radio Communications System (RCS)	17,871	-
Navy Multi-Band Terminal (NMT)	-	10,487
Distributed Aperture System Infra-Red Search and Track System (DAS IRST)	-	8,333
Thermal Imaging Sensors System (TISS)	-	3,116
AN/SPS-73(V)X Lite System	-	3,681
Sea-Based Joint Precision Approach & Landing System (JPALS)	-	3,374
Information Assurance (IA) / Electronic Key Management System (EKMS)		5,668
<b>Subtotal</b>	<b>194,407</b>	<b>337,585</b>

**SHIPBUILDING AND CONVERSION, NAVY**  
**Analysis of Ship Cost Estimates - Major Equipment**  
**(Dollars in Thousands)**

**Ship Type: Carrier Replacement Program**

	<b>FY 2001 CVN 77 TOTAL COST</b>	<b>FY 2008 CVN 78 TOTAL COST</b>
<b>ELECTRONIC EQUIPMENT</b>		
<b>b. Major Items</b>		
A/SMQ-11A(V)2	1,385	
AN/USQ-155(V)1 Tactical Variant Switch	1,656	2,348
AN/WSC-6 (V) 7, Super High Frequency SATCOM	1,819	
AN/WSC-8 Commercial Wideband Satellite Program (CWSP)	2,264	
Common Data Link Management System (CDLMS)	1,580	2,241
DMR Remote Control Unit	1,693	
AN/USC-38(V) Extremely High Frequency (EHF) SATCOM, Follow-on Terminal	2,376	
Information Assurance (IA)	1,291	
Mast Clamp Current Probe (MCCP) Upgrade	2,925	2,554
AN/URC-141X(V), Multi-Function Information Distribution System (MIDS)-on-Ship (MOS)	2,272	2,554
AN/SSN-6(V)X Block 4, Navigation Sensor System Interface (NAVSSI)	1,927	
AN/SLQ-25A Dual, Surface Ship Torpedo Defense System, NIXIE	1,307	1,927
AN/UYK-158 (V), Naval Tactical Command Support System (NTCSS)/Web Enable NTCSS (eNTCSS) Block Upgrade	2,251	2,568
AN/SMQ-11, Meteorological/Oceanographic (METOC) Satellite Receiver - Record Set		1,652
AN/USQ-144H(V)2, Automated Digital Networking System (ADNS)		1,424
AN/WQN-2(V)X, Doppler Sonar Velocity Log (DSVL)		929
Global Broadcast System (GBS)		1,240
Publication	2,854	
Ready Rooms	1,627	
Shipboard Air Traffic Control Communications (SATCC)	1,785	2,101
Ship Test and Integration Programs	2,788	2,828
AN/USQ-162(V)3 ARC Automated Radio Communications System		1,154
AN/SPN-43, Air Traffic Control Marshalling Radar Set	2,405	
Tactical Voice Terminal (TVT)	1,240	
<b>Subtotal</b>	<b>37,445</b>	<b>25,520</b>
<b>c. Miscellaneous Electronics</b>	<b>15,102</b>	<b>12,500</b>
<b>TOTAL ELECTRONICS</b>	<b>246,954</b>	<b>375,605</b>

UNCLASSIFIED  
CLASSIFICATION

P-8A EXHIBIT  
FY 2008/ FY 2009 President's Budget  
February 2007

SHIPBUILDING AND CONVERSION, NAVY  
Analysis of Ship Cost Estimates - Major Equipment  
(Dollars in Thousands)

Ship Type: Carrier Replacement Program

	FY 2001 CVN 77 TOTAL COST	FY 2008 CVN 78 TOTAL COST
<b>HULL, MECHANICAL &amp; ELECTRICAL</b>		
<b>a. P-35 Items</b>		
Integrated Communications and Advanced Networks/Integrated Voice Network(ICAN)	11,120	-
<b>b. Major Items</b>		
Composite Mast Upgrade	4,950	
Environmental Equipment (Waste Mgmt)	1,060	
HM&E Engineering Services	9,194	27,503
Integrated Communications and Advanced Networks/Machinery Control Monitoring System (ICAN)	3,125	
Integrated Logistics Support	2,865	4,160
Life Rafts	1,417	2,252
Nuclear Plant Handling	1,179	-
Ring Laser Gyro Navigator	2,937	-
Supship Material and GFE	2,250	3,024
Test & Integration	2,596	8,521
Trucks (Forklifts)	2,928	4,570
		-
<b>Subtotal</b>	<b>34,501</b>	<b>50,030</b>
<b>c. Miscellaneous HM&amp;E</b>	<b>2,722</b>	<b>4,488</b>
<b>TOTAL HM&amp;E</b>	<b>48,343</b>	<b>54,518</b>

**UNCLASSIFIED**  
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**P-8A EXHIBIT**  
FY 2008/ FY 2009 President's Budget  
February 2007

**SHIPBUILDING AND CONVERSION, NAVY**  
**Analysis of Ship Cost Estimates - Major Equipment**  
**(Dollars in Thousands)**

**Ship Type: Carrier Replacement Program**

	<b>FY 2001 CVN 77 TOTAL COST</b>	<b>FY 2008 CVN 78 TOTAL COST</b>
<b>OTHER</b>		
<b>a. Major Items</b>		
Contract Engineering Services	8,773	-
In-House Engineering Services	21,507	28,389
Management Support Services	27,055	32,427
Berthing and Messing	8,390	11,075
Commissioning	765	1,010
Planned Maintenance	172	1,203
Steam & Electric Plant Re provisioning Effort	2,997	3,944
<b>TOTAL OTHER</b>	<b>69,659</b>	<b>78,048</b>

**SHIPBUILDING AND CONVERSION, NAVY**  
**Analysis of Ship Cost Estimates - Major Equipment**  
**(Dollars in Thousands)**

**Ship Type: Carrier Replacement Program**

	<b>FY 2001</b>	<b>FY 2008</b>
	<b>CVN 77</b>	<b>CVN 78</b>
	<b>TOTAL COST</b>	<b>TOTAL COST</b>
<b>ORDNANCE</b>		
<b>a. P-35 Items</b>		
Legacy Aircraft Launching System	28,549	
Legacy Aircraft Recovery System	13,600	-
Electromagnetic Aircraft Launching System (EMALS)	-	317,676
Dual Band Radar (DBR) (SPY-3 and VSR)	-	201,897
Advanced Aircraft Recovery System (AAG)	-	75,001
AN/SPQ-9(B), Target Acquisition Radar	9,536	-
AN/SPS-48E, 3-D Air Surveillance Radar	13,186	-
AN/SPS-49A(V)2, 2-D Air Surveillance Radar	9,332	-
PHALANX Block 1B MK 15 MOD 23, Weapons System	-	20,366
AN/TPX-42A, Carrier Air Traffic Control Center -Direct Altitude and Identify Readout (CATCC DAIR)	4,419	-
AN/SQQ-34, Carrier-Tactical Support Center	12,958	9,103
Improved Fresnel Lens Optical Landing System (IFLOLS)	4,884	7,502
AN/SQQ-34 Multi-Modal Workstations (MMWS) Upgrade	10,050	-
NATO Sea Sparrow Missile (NSSM)	28,430	-
MK29 Guided Missile Launching System (GMLS) Evolved Sea Sparrow Missile (ESSM)	-	18,984
Naval Strike Warfare Planning Center (NSWPC)	2,555	-
AN/SQQ-34 Tactially Integrated Sensors (TIS) Upgrade	6,373	-
Aviation Data Management and Control System (ADMACS)	3,683	6,152
Integrated Launch and Recovery Television System (ILARTS)	2,996	5,999
AN/SPQ-14, Advanced Sensor Distribution System (ASDS)	3,309	-
MK 49 Guided Missile Launching System (GMLS), p/o MK 31 Rolling Airframe Missile (RAM)	13,087	10,952
Joint Strike Fighter Autonomic Logistics Information System (JSF ALIS)	-	3,731
<b>Subtotal</b>	<b>166,947</b>	<b>677,363</b>

**SHIPBUILDING AND CONVERSION, NAVY**  
**Analysis of Ship Cost Estimates - Major Equipment**  
**(Dollars in Thousands)**

**Ship Type: Carrier Replacement Program**

	<b>FY 2001 CVN 77 TOTAL COST</b>	<b>FY 2008 CVN 78 TOTAL COST</b>
<b>ORDNANCE</b>		
<b>b. Major Items</b>		
ANSPS-67(V)1, 2-D Short Range Surface-Search/Navigation Radar	1,305	
AN/SPS-73	1,322	
Aviation Maintenance Facility	1,344	1,266
CVIC	3,577	
Landing Signal Officer Display System (LSODS)		1,689
MORIAH Block 2	1,097	1,379
Ship Test and Integration Programs	2,401	3,163
VISUAL	1,725	
<b>Subtotal</b>	<b>12,771</b>	<b>7,497</b>
<b>c: Miscellaneous Ordnance</b>	<b>8,983</b>	<b>11,988</b>
<b>TOTAL ORDNANCE</b>	<b>188,701</b>	<b>696,848</b>

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
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Ship Type: Carrier Replacement Program  
 Equipment Line: Automated Radio Communications (ARC) (formerly Radio Room Automation)  
 PARM Code: PMW 179

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: ARC integrates communications apertures and C4I systems within the CVN 77 Radio Room to enable an automated, full service integrated network. Benefits of this transitional technology will result in reduced manning; implementation of FORCEnet functionality; increased information bandwidth; increased effectiveness/efficiency through technology insertion and automation; and reduced electrical power, weight, and cooling requirements.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77
Major Hardware	282
Spares	20
Tech Data Documentation	135
Technical Engineering Services	825
Systems Engineering	523
Other Costs	14,896
<b>TOTAL</b>	<b>16,681</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	Northrop Grumman/SFA	CPFF/T&M	1	282	Jan-04

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	0	6	Oct-07

V. COMPETITION/SECOND SOURCE INITIATIVES:

NONE

Note: Installation deferred until PSA

SHIPBUILDING AND CONVERSION, NAVY  
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P-35 EXHIBIT  
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Ship Type: Carrier Replacement Program  
 ITEM: CVN 78 Integrated Strike Planning & Execution Systems (ISP&E)  
 PARM Code: PMA 281

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: Integrated Strike Planning & Execution Systems (ISP&E) is a collection of interfaced and integrated systems that together provide the following functions: Intelligence information processing: Collection, Exploitation, and Analysis; Strike Planning: Tactical Air (TACAIR), TOMAHAWK Debrief/Reporting.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2008 CVN 78
Major Hardware	829
Ancillary Equipment	150
Spares	512
Systems Engineering	19,307
Technical Engineering Services	3,778
Other	1,952
TOTAL	26,528

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 08	CVN 78	Various	Various	1	829	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 08	CVN 78	Sep-15	TBD	15	TBD

V. COMPETITION/SECOND SOURCE INITIATIVES:

NONE

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
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P-35 EXHIBIT  
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Ship Type: Carrier Replacement Program  
 Equipment Line: Joint Tactical Radio System-Airborne/Maritime Fixed Station (JTTRS-AMF), Increment II  
 PARM Code: PMW 179

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The Joint Tactical Radio System, Airborne/Maritime Fixed Station (JTRS AMF) is a software defined radio capable of implementing several legacy waveforms and new networking waveforms.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2008 CVN 78
Major Hardware	20,050
Tech Data Documentation	200
Spares	105
Systems Engineering	1,361
Technical Engineering Services	635
Other Costs	790
<b>TOTAL</b>	<b>23,141</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 08	CVN 78	TBD	TBD	1	20,050	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 08	CVN 78	Sep-15	TBD	18	TBD

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

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P-35 EXHIBIT  
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Ship Type: Carrier Replacement Program  
 Equipment Line: AN/USQ-T46(V)X, Battle Force Tactical Training System (BFTT)  
 PARM Code: PEO IWS 1A5

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: BFTT is a highly flexible, interactive unit and group/force level tactical combat training system. The mission of the system is to provide training capabilities for fleet personnel to achieve and maintain combat readiness.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77	FY 2008 CVN 78
Major Hardware	3,385	4,131
Tech Data Documentation	375	532
Spares	150	182
Technical Engineering Services	300	672
Systems Engineering	425	666
Other Costs	1,247	2,179
<b>TOTAL</b>	<b>5,882</b>	<b>8,362</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	Multiple vendors managed by the PARM	Various	1	3,385	Various*
FY 08	CVN 78	TBD	TBD	1	4,131	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	0	12	Apr-07
FY 08	CVN 78	Sep-15	28	12	May-12

V. COMPETITION/SECOND SOURCE INITIATIVES:

CVN 77     None  
 CVN 78     None

\* Note: CVN 77 Installation deferred until PSA

SHIPBUILDING AND CONVERSION, NAVY  
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 (\$000)

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Ship Type: Carrier Replacement Program  
 Equipment Line: AN/USQ-123(V) Block 1, Communications Data Link-System (CDL-S)  
 PARM Code: PMW 189

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The CDL-S Blk 1 system is an enhanced capability and technology upgrade to the Common High Bandwidth Data Link-Surface Terminal (CHBDL-ST) system. It provides a full duplex, microwave digital data link between shipboard processors and airborne sensors.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77	FY 2008 CVN 78
Major Hardware	3,000	3,410
Spares	397	655
Systems Engineering	100	2,678
Technical Engineering Services	350	1,828
Other Costs	3,350	0
<b>TOTAL</b>	<b>7,197</b>	<b>8,571</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	CUBIC Defense Applications	FFP	1	3,000	Mar-03
FY 08	CVN 78	TBD	TBD	1	3,410	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	0	18	Oct-06
FY 08	CVN 78	Sep-15	TBD	18	TBD

V. COMPETITION/SECOND SOURCE INITIATIVES:

CVN 77 None  
 CVN 78 None

\* Note: CVN 77 Installation deferred until PSA

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
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P-35 EXHIBIT  
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Ship Type: Carrier Replacement Program

Equipment Line: SPAWAR Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) Coordination and Turnkey Radio Communication System (RCS)

PARM Code: C4I SC

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: C4ISR Coordination refers to the pre-installation test and integration services provided by SPAWAR System Center Charleston Test and Integration Facility prior to shipyard delivery. Coordination includes providing program planning, management services, technical services, and detailed C4I ship design and integration. RCS is the compliment of hand held radios reused for Carrier operation. RCS also includes the integration and test of all systems included in the TIF (SSC-CH).

II. CURRENT FUNDING:

SHIP TYPE:	FY 2008 CVN 78
Major Hardware	2,244
Ancillary Equipment	1,836
Tech Data Documentation	1,538
Systems Engineering	19,917
Technical Engineering Services	4,838
Other Costs	3,254
<b>TOTAL</b>	<b>33,627</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 08	CVN 78	TBD	TBD	1	2,244	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 08	CVN 78	Sep-15	29	TBD	TBD

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

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 (\$000)

P-35 EXHIBIT  
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Ship Type: Carrier Replacement Program  
 Equipment Line: Cooperative Engagement Capability (CEC)  
 PARM Code: IWS 6A

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: CEC significantly improves battle force air and missile defense capabilities by coordinating battle force air defense sensors into a single, near real-time, composite track picture capable of fire control quality. CEC is a sensor netting system which distributes sensor data from each CEC equipped ship, aircraft, and/or Cooperating Unit (CU), to all other CUs in the battle force through a real-time, line of sight, high data rate sensor and engagement data distribution network. CEC is highly resistant to jamming and provides accurate grid locking between CUs. Each CU independently employs high capacity parallel processing and advanced algorithms to combine all distributed sensor data into a high quality track picture that is the same for all CUs. CEC data is presented as a superset of the best sensor capabilities from each CU, all of which are integrated into a single input to each CU's combat weapons system. The software costs for CVN 78 are estimated on DDX leveraging and integration required for CVN 78. The CVN 78 will use version Alpha.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77	FY 2008 CVN 78
Major Hardware	5,571	4,590
Tech Data Documentation	37	-
Spares	128	1,320
Systems Engineering	576	304
Technical Engineering Services	368	276
Other Costs	289	6,354
<b>TOTAL</b>	<b>6,969</b>	<b>12,844</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	Raytheon	FFP	1	5,571	Dec-03
FY 08	CVN 78	Raytheon	TBD	1	4,590	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	22	18	Dec-04
FY 08	CVN 78	Sep-15	21	18	Jun-12

V. COMPETITION/SECOND SOURCE INITIATIVES:

CVN 77 None  
 CVN 78 None

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

Ship Type: Carrier Replacement Program  
 Equipment Line: Distributed Common Ground Station - Navy (DCGS-N)  
 PARM Code - PMA 213

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The DCGS-N is transformational technology providing Multi-INT Real-Time sensor downlink from numerous National, Theater and Tactical sensor platforms, including National Imagery, National SIGINT, U-2, GLOBAL HAWK, P-3 Video, JSTARS and others, with the ability to dynamically re-task several sensors in flight. DCGS-N will be installed in the CVIC compartment with integration/interface into the Naval Strike Warfare Planning Center (NSWPC) system of systems.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77	FY 2008 CVN 78
Major Hardware	7,451	5,500
Ancillary Hardware		77
Technical Data and Documentation		20
Spares	259	730
Systems Engineering	12,370	0
Technical Engineering Services	906	10
Other Costs	3,000	765
TOTAL	23,986	7,102

III. CONTRACT DATA:

PROGRAM YEAR	SHIP	PRIME CONTRACTOR	CONTRACT TYPE	QTY	HARDWARE UNIT COST	AWARD DATE
FY 01	CVN 77	Multiple vendors managed by the PARM	Various	1	7,451	Various
FY08	CVN 78	Multiple vendors managed by the PARM	Various	1	5,500	Various

IV. DELIVERY DATA:

PROGRAM YEAR	SHIP	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DELIVERY	PRODUCTION LEAD-TIME (MTHs)	REQUIRED AWARD DATE
FY 01	CVN 77	Apr-08	0	18	Oct-06
FY 08	CVN 78	Sep-15	TBD	18	TBD

V. COMPETITION/SECOND SOURCE INITIATIVE:

CVN 77 None  
 CVN 78 NONE

\* Note: CVN 77 Installation deferred until PSA

SHIPBUILDING AND CONVERSION, NAVY  
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 (\$000)

P-35 EXHIBIT  
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Ship Type: Carrier Replacement Program  
 Equipment Line: Digital Modular Radio-Very High Frequency/Ultra High Frequency Line of Sight/Satellite Communications (DMR-VHF/UHF LOS/SATCOM)  
 PARM Code: PMW 173

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: DMR-VHF/UHF LOS/SATCOM is an open architecture system that allows transmission and reception of UHF and VHF RF signals. The DMR replaces many legacy systems, including some crypto, Line Of Sight (LOS) and Satellite Communications (SATCOM) components.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77
Major Hardware	10,413
Spares	50
Tech Data/Documentation	120
Systems Engineering	295
Tech Engineering Services	150
Other Costs	296
<b>TOTAL</b>	<b>11,324</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	SSC San Diego	Various	1	10,413	Various

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	21	19	Dec-04

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
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Ship Type: Carrier Replacement Program  
 Equipment Line: Global Command and Control System - Maritime (GCCS-M)  
 PARM Code: PMW 157

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: GCCS-M is the maritime implementation of the Joint Services GCCS providing a single integrated, scalable Command, Control, Communications, Computer and Intelligence (C4I) system. The system supplies information that aids Navy Commanders in a full range of tactical decisions. In functional terms, the GCCS-M fuses, correlates, filters, and maintains raw data and displays image-building information as a tactical picture. Specifically, the system displays location of air, sea, and land units anywhere in the world and identifies whether those units represent friendly, neutral, or enemy forces. It operates in near real-time and constantly updates unit positions and other situational awareness data. GCCS-M also records the data in appropriate databases, and maintains a history of the changes to those records. The user can then use the data individually or in concert with other data to construct relevant tactical pictures, using maps, charts, map overlays, topography, oceanographic, meteorological, imagery and all-source intelligence. CVN 78 version does not include SVDS.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77	FY 2008 CVN 78
Major Hardware	4,185	2,132
Ancillary Equipment		44
Spares	357	393
Tech Data Documentation	205	475
Systems Engineering	1,575	5,190
Technical Engineering Services	723	2,847
Other Costs	4,551	619
<b>TOTAL</b>	<b>11,596</b>	<b>11,700</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	GWAC/COTS	Various	1	4,185	Multiple year procurement contract Jan-04
FY 08	CVN 78	TBD	TBD	1	2,132	

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	Multiple Deliveries (to support PSA installation)	6	Oct-07
FY 08	CVN 78	Sep-15	28	6	Nov-12

V. COMPETITION/SECOND SOURCE INITIATIVES:

CVN 77    None  
 CVN 78    None

\* Note: CVN 77 Installation deferred until PSA

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Ship Type: Carrier Replacement Program  
 Equipment Line: The Shipboard Video Distribution System SVDS)  
 PARM Code: PMW 160

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The Shipboard Video Distribution System is a high-resolution analog video switch, secure briefing system, and low-resolution digital video system. The digital portion interfaces directly with the ships GENSER LAN. SVDS is the hub for all C4I video feeds. These feeds are then displayed on flat panels, video walls and other display devices throughout the ship in such locations as TFCC, CVIC, CIC, and all Flag Staterooms. SVDS also provides the ship with a means to perform secure briefs. SVDS uses the latest in video/audio technology that is available in the COTS world and is a vital element to the warfighter.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2008 CVN 78
Major Hardware	2,094
Ancillary Equipment	34
Spares	250
Tech Data Documentation	0
Systems Engineering	54
Technical Engineering Services	1,087
Other Costs	431
<b>TOTAL</b>	<b>3,950</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 08	CVN 78	TBD	TBD	1	2,094	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 08	CVN 78	Sep-15	28	6	Nov-12

V. COMPETITION/SECOND SOURCE INITIATIVES:

CVN 78      None

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Ship Type: Carrier Replacement Program  
 Equipment Line: High Frequency Radio Group (HFRG)  
 PARM Code: PMW 179

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: HFRG provides broadband High Frequency Radio Frequency capability to transmit (2-30MHz) and receive (10KHz-30MHz).

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001
	CVN 77
Major Hardware	4,086
Spares	30
Tech Engineering Services	126
Other Costs	167
<b>TOTAL</b>	<b>4,409</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	Harris	IDIQ	1	4,086	Sep-03

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	21	12	Jul-05

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

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Ship Type: Carrier Replacement Program  
 Equipment Line: Interrogator Friend or Foe (IFF)  
 PARM Code: PMA 213

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: IFF is an approved and fully supported centralized Mark XII Interrogator system. It uses one receiver transmitter that synchronizes video with up to four radar sweeps. It supplies synthetic video (symbology) to, and accepts requests from, as many as 22 remote locations. It provides digital target reporting to the combat systems/weapon systems computer via full scan, sectored, and/or pop-up interrogations. It provides instantaneous target reporting at requested range and azimuth through the use of an electronically-steered Antenna Group OE-120/UPX or OE-120A/UPX. It provides electronically evaluated Mode 4 target reporting directly to operators and over the combat systems/weapon system computer interface. It provides full redundancy so identification capabilities are retained in case of main processor, main antenna, or main receiver/transmitter failure.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77	FY 2008 CVN 78
Major Hardware	3,162	8,246
Ancillary Equipment		260
Spares	104	57
Systems Engineering	405	640
Technical Engineering Services	185	275
Other Costs	958	1,035
<b>TOTAL</b>	<b>4,814</b>	<b>10,513</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY01	CVN 77	Litton BAE Systems	FFP	1	3,162	Various
FY 08	CVN 78	BAE & Litton Data Systems	SS/FP	1	8,246	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	16	22	Feb-05
FY 08	CVN 78	Sep-15	15	24	Jun-12

V. COMPETITION/SECOND SOURCE INITIATIVES:

CVN 77     None  
 CVN 78     None

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Ship Type: Carrier Replacement Program  
Equipment Line: AN/USQ-153 (C4I Networks), Integrated Shipboard Network System (ISNS)  
PARM Code: PMW 165

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: ISNS is both an unclassified and a classified network providing connectivity for all C4I systems requiring network capabilities. The unclassified network provides the transport layer for Naval Tactical Command Support System (NTCSS) and the classified network provides the transport layer for Global Command and Control System - Maritime (GCCS-M). ISNS is a part of the C4I Afloat Networks which provides network connectivity to the desktop for classified, unclassified, coalition, and SCI applications.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77	FY 2008 CVN 78
Major Hardware	5,563	8,181
Tech Data Documentation	0	136
Ancillary Equipment	0	83
Spares	93	314
Systems Engineering	388	3,169
Technical Engineering Services	623	426
Other Costs	6,608	531
<b>TOTAL</b>	<b>13,275</b>	<b>12,840</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	Multiple vendors managed by the PARM	Various	1	5,563	Various
FY 08	CVN 78	TBD	TBD	1	8,181	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	10	9	Sep-06
FY 08	CVN 78	Sep-15	TBD	9	TBD

V. COMPETITION/SECOND SOURCE INITIATIVES:

CVN 77	None
CVN 78	None

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Ship Type: Carrier Replacement Program

Equipment Line: CVN 77 AN/SLQ-32(V)4, Electronic Warfare System (EWS) / CVN 78 AN/SLQ-32(V)4, Electronic Warfare System (EWS), Surface Electronic Warfare Improvement Program (SEWIP) E  
 PARM Code: PEO IWS 2E

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: EWS is the Navy's primary electronic warfare system used on all surface combatants, amphibians, auxiliaries, and carriers. It provides operational capability for early detection, analysis, threat warning, and protection from anti-ship missiles. The AN-SLQ-32(V)4 configuration installed on all CV/CVNs provides both passive and active capabilities. The CVN 78 adds the Surface Electronic Warfare Improvement Program (SEWIP).

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77	FY 2008 CVN 78
Major Hardware	5,481	5,944
Ancillary Equipment		468
Tech Data Documentation	80	0
Spares	60	818
Systems Engineering	57	387
Technical Engineering Services	360	818
Other Costs	820	4,233
<b>TOTAL</b>	<b>6,858</b>	<b>12,668</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	Multiple vendors managed by the PARM	N/A	1	5,481	Various
FY 08	CVN 78	TBD	TBD	1	5,944	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	13	32	Jul-04
FY 08	CVN 78	Sep-15	18	36	Mar-11

V. COMPETITION/SECOND SOURCE INITIATIVES:

CVN 77    None  
 CVN 78    None

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Ship Type: Carrier Replacement Program  
 Equipment Line: AN/SPN-41(V), Instrument Landing System (ILS)  
 PARM Code: PMA 213

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The AN/SPN-41 Transmitting Set is used as the ship's Instrument Control Landing System (ICLS) to provide azimuth and elevation alignment information; thus, assisting the pilot with landing the aircraft. When the aircraft is within 0.75 miles of the ship, the Landing Signal Officer (LSO) directs the pilot for a safe landing.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77	FY 2008 CVN 78
Major Hardware	2,407	3,870
Systems Engineering	530	595
Technical Engineering Services	0	214
Other Costs	433	564
<b>TOTAL</b>	<b>3,370</b>	<b>5,243</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	Multiple vendors managed by the PARM	Various	1	2,407	Various
FY 08	CVN 78	TBD	TBD	1	3,870	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	16	18	Jun-05
FY 08	CVN 78	Sep-15	15	24	Jun-12

V. COMPETITION/SECOND SOURCE INITIATIVES:

CVN 77    None  
 CVN 78    None

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Ship Type: Carrier Replacement Program  
 Equipment Line: Automated Carrier Landing Systems (ACLS) (AN/SPN-46 (V)3)  
 PARM Code: NAVAIR PMA 213

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: AN/SPN-46 (V)3 provides precision Landing System used for non-clear weather aircraft landings on board carriers.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77
Major Hardware	6,166
Systems Engineering	957
Technical Engineering Services	323
Other Costs	2,017
<b>TOTAL</b>	<b>9,463</b>

III. CONTRACT DATA:

PROGRAM						
<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	British Aerospace	FFP	1	6,166	Jan-03

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	26	18	Aug-04

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

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Ship Type: Carrier Replacement Program  
 Equipment Line: Ship Self Defense System (SSDS) MK 2 MOD 1B  
 PARM Code: PEO IWS 1C

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: SSDS is a physically distributed, open architecture computer network consisting of commercially available or previously developed hardware. SSDS integrates the ship's sensors and weapons to provide an automated detect through engage capability. Its architecture flexibility accommodates changes in threats, sensors, weapons, requirements or ship class modifications. SSDS provides the Commanding Officer with centralized positive control over weapons release. It also allows operator and maintenance training to be conducted onboard ship. SSDS MK 2 is integrated with CEC onboard CVN, LPD 17, LHD, and LHA class ships and land based support and training sites.

II. CURRENT FUNDING:

	FY 2001
SHIP TYPE:	CVN 77
Major Hardware	13,994
Spares	1,243
Technical Engineering Services	1,891
Systems Engineering	2,517
Other Costs	22,195
 TOTAL	 41,840

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	RSC/LM	FFP	1	13,994	Mar-04

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	19	24	Sep-04

V. COMPETITION/SECOND SOURCE INITIATIVES:

CVN 77      None

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Ship Type: Carrier Replacement Program  
 Equipment Line: Ship Self-Defense System (SSDS) , MK2 MOD 1C  
 PARM Code: PEO IWS 1C

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: SSDS is a combat system that integrates and coordinates all of the existing sensors and weapon systems aboard the ship. SSDS automates the detect through engage sequence using identification and engagement doctrine statements. It includes embedded doctrine to provide and integrate detect-through-engage capability with options ranging from use as a tactical decision aid to use as an automatic weapon system to respond with hardkill and softkill systems.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2008 CVN 78
Major Hardware	24,233
Spares	1,696
Technical Engineering Services	2,456
Systems Engineering	4,355
Other Costs	66,806
 TOTAL	 99,546

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 08	CVN 78	Raytheon/LM	CPAF	1	24,233	Jan-09

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 08	CVN 78	Sep-15	28	36	May-10

V. COMPETITION/SECOND SOURCE INITIATIVES:

CVN 78      None

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Ship Type: Carrier Replacement Program  
 Equipment Line: AN/SRQ-6(V), Ships Signal Exploitation Equipment (SSEE) Increment E on CVN 77 and Increment X on CVN 78  
 PARM Code: PMW 189

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: SSEE provides for cryptological signal acquisition, recognition, analysis and geo-location. It replaces Maritime Cryptological System (MCS-21) which replaces the Battle Group Passive Horizon Extension System (BGPHEs). The new increment is being developed to be installed on ships delivered after FY09.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77	FY 2008 CVN 78
Major Hardware	2,100	4,491
Spares	270	306
Systems Engineering		1,082
Technical Engineering Services		1,186
Other Costs	3,152	359
<b>TOTAL</b>	<b>5,522</b>	<b>7,424</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	ARGON ENGINEERING	CFFP	1	2,100	Apr-01
FY 08	CVN 78	TBD	TBD	1	4,491	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	14	18	Aug-05
FY 08	CVN 78	Sep-15	19	18	Aug-12

V. COMPETITION/SECOND SOURCE INITIATIVES:

CVN 77	None
CVN 78	None

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Ship Type: Carrier Replacement Program  
 Equipment Line: AN/SRQ-6(V), Ships Signal Exploitation Space/Special Intelligence Communications (SSES/SI Comms)  
 PARM Code: PMW 180

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: SSES/SI Comms: SSES/SI Comms supports the overall mission of the SSES Information Warfare System. Its capabilities include: SI Message Processing equipment, Navy Order Wire (NOW) system, HF Receiver suite equipped with a Frequency Shift Key (FSK) modification and various crypto-logical equipment.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77	FY 2008 CVN 78
Major Hardware	1,423	2,034
Systems Engineering		491
Technical Engineering Services		592
Spares	40	33
Other Costs	1,887	1,301
<b>TOTAL</b>	<b>3,350</b>	<b>4,451</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	Multiple vendors managed by the PARM	Various	1	1,423	Various
FY 08	CVN 78	TBD	TBD	1	2,034	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	0	18	Oct-06
FY 08	CVN 78	Sep-15	TBD	18	TBD

V. COMPETITION/SECOND SOURCE INITIATIVES:

CVN 77    None  
 CVN 78    None

Note: CVN 77 Installation deferred until PSA

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Ship Type: Carrier Replacement Program  
 Equipment Line: AN/TPX-42A, Carrier Air Traffic Control Center - Direct Altitude & Identify Readout (CATCC-DAIR)  
 PARM Code: PMA 213

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: CATCC-DAIR is an automatic beacon and radar that when integrated with an air traffic control radar, provides numeric and symbolic displays of position, identity, and altitude of aircraft in the terminal airspace on an operator's Plane Position Indicator (PPI) display.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77	FY 2008 CVN 78
Major Hardware	2,250	2,989
Spares	200	228
Systems Engineering	896	1,815
Technical Engineering Services		42
Other Costs	1,073	885
<b>TOTAL</b>	<b>4,419</b>	<b>5,959</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	Multiple vendors managed by the PARM	Various	1	2,250	Various
FY 08	CVN 78	TBD	TBD	1	2,989	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	26	12	Feb-05
FY 08	CVN 78	Sep-15	30	18	Sep-11

V. COMPETITION/SECOND SOURCE INITIATIVES:

CVN 77     None  
 CVN 78     None

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Ship Type: Carrier Replacement Program  
 ITEM: AN/SSN-6(V)X Navigation Sensor System Interface (NAVSSI) Block 4  
 PARM Code: PMW 156-3

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: Navigation Sensor System Interface (NAVSSI) integrates navigation parameters and position data from the Ring Laser Gyro Navigator (RLGN), Doppler Sonar Velocity Log (DSVL), and Global Positioning System (GPS). For the CVN 78, there are expectations for existing capabilities with a changing future architecture.

II. CURRENT FUNDING:

SHIP TYPE:	FY2008 CVN 78
Major Hardware	1,050
Ancillary Equipment	30
Tech Data Documentation	0
Spares	19
Systems Engineering	1,779
Technical Engineering Services	140
Other	1,320
<b>TOTAL</b>	<b>4,338</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 08	CVN 78	Various	TBD	1	1,050	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 08	CVN 78	Sep-15	29	18	Oct-11

V. COMPETITION/SECOND SOURCE INITIATIVES:

CVN 77	None
CVN 78	None

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Ship Type: Carrier Replacement Program  
 ITEM: AN/WSN-7(V)3 Ring Laser Gyro Navigator/ Inertial Navigation (RLGN)  
 PARM Code: IWS 6F

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: RLGN is a passive shipboard inertial navigation system operable worldwide without the need for external position reference information for prolonged periods of time. It provides inertial navigational data to shipboard systems for navigation, aircraft alignment and fire control.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2008 CVN 78
Major Hardware	2,165
Tech Data Documentation	126
Spares	710
Systems Engineering	414
Technical Engineering Services	448
Other	256
<b>TOTAL</b>	<b>4,119</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 08	CVN 78	Sperry Marine	TBD	1	2,165	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 08	CVN 78	Sep-15	29	18	Oct-11

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
 February 2007

Ship Type: Carrier Replacement Program  
 Equipment Item: Turnkey Radio Communications Systems (RCS)  
 PARM Code: PMW 05

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: Turnkey RCS for CVN 77 includes the integration of SPAWAR Radio Communication Systems (RCS) at the SPAWAR System Center Charleston Test and Integration Facility. SSC Charleston will provide program planning, management and technical services, and detailed C4I ship design and integration. The RCS will undergo total integration and testing prior to delivery to the shipbuilder.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77
Major Hardware	2,095
Systems Engineering	1,751
Technical Engineering Services	5,169
Other Costs	8,856
<b>TOTAL</b>	<b>17,871</b>

III. CONTRACT DATA

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	Multiple vendors managed by the PARM	Various	1	2,095	Various

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	21	12	Jul-05

V. Competition/Second Source Initiatives

None

Note: Hardware includes only Non-2Z Cog items to support integration effort

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
 February 2007

Ship Type: Carrier Replacement Program  
 ITEM: Navy Advanced Extremely High Frequency (AEHF) Navy Multi-Band Terminal (NMT)  
 PARM Code: PMW 170

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The Advanced Extremely High Frequency (AEHF) Navy Multi-band Terminal (NMT) will be used to receive signals from the Advanced EHF satellites which is a follow-on to the DoD's highly secure, highly protected MILSTAR communications satellite system.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2008
	CVN 78
Major Hardware	8,675
Ancillary Equipment	133
Tech Data Documentation	112
Spares	708
Systems Engineering	440
Technical Engineering Services	296
Other	123
<b>TOTAL</b>	<b>10,487</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 08	CVN 78	TBD	TBD	2	4,338	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 08	CVN 78	Sep-15	TBD	18	TBD

V. COMPETITION/SECOND SOURCE INITIATIVES:

NONE

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
 February 2007

Ship Type: Carrier Replacement Program  
 ITEM: Distributed Aperture System Infra-red Search and Track System (DAS IRST)  
 PARM Code: IWS 2E3

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: DAS IRST provides continuous horizon surveillance by monitoring the middle infrared band of the electromagnetic spectrum to detect the emitted heat signature of an incoming missile. By exploiting the IR region of the spectrum, IRST can detect reduced RCS missiles and provide real-time radar cues through the Cooperative Engagement Capability (CEC) processor.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2008 CVN 78
Major Hardware	6,675
Tech Data Documentation	78
Spares	1,140
Systems Engineering	52
Technical Engineering Services	181
Other	207
<b>TOTAL</b>	<b>8,333</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 08	CVN 78	TBD	TBD	1	6,675	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 08	CVN 78	Sep-15	TBD	18	TBD

V. COMPETITION/SECOND SOURCE INITIATIVES:

NONE

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
 February 2007

Ship Type: Carrier Replacement Program  
 ITEM: Thermal Imaging Sensor System (TISS)  
 PARM Code: IWS 2E3

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: TISS provides day/night situational awareness using high-resolution IR and EO (visible band) imaging, as well as laser range finding. TISS can be used for tracking surface units and slow flyers and for situational awareness.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2008 CVN 78
Major Hardware	1,935
Tech Data Documentation	87
Spares	489
Systems Engineering	70
Technical Engineering Services	180
Other	355
TOTAL	3,116

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 08	CVN 78	TBD	TBD	2	968	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 08	CVN 78	Sep-15	TBD	18	TBD

V. COMPETITION/SECOND SOURCE INITIATIVES:

NONE

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
 February 2007

Ship Type: Carrier Replacement Program  
 ITEM: AN/SPS-73(V)X Lite System  
 PARM Code: IWS 2R119

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: A 2D X-band surface search navigation radar replacement for the AN/SPS-64(v) radar on CV/CVN class ships. The system consists of an antenna/RT unit and a Radar Processor Rack containing two radar processors for system redundancy. The system has the ready means of interfacing with current and future equipment.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2008 CVN 78
Major Hardware	995
Tech Data Documentation	775
Spares	50
Systems Engineering	295
Technical Engineering Services	405
Other	1,161
<b>TOTAL</b>	<b>3,681</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 08	CVN 78	Raytheon	TBD	2	498	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 08	CVN 78	Sep-15	18	18	Sep-12

V. COMPETITION/SECOND SOURCE INITIATIVES:

NONE

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
 February 2007

Ship Type: Carrier Replacement Program  
 ITEM: Sea Based Joint Precision Approach & Landing System (JPALS)  
 PARM Code: PMA 213

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: JPALS is a joint program which includes aircraft, ships, and airfields from the Air Force, Army, Navy, Marines, and Coast Guard. It uses differential GPS to provide precise approach and landing direction to aircraft in all weather conditions. The system is required to operate in four environments: fixed base, tactical, special mission, and shipboard. It must be deployable and interoperable among all Services and compatible with civil GPS approaches (WAAS and LAAS). NATO interoperability is desired. Shipboard systems will also provide bearing and distance to aircraft within 200 nautical miles and air traffic control functions within 50 nautical miles of the ship. Shipboard GPS systems will have an independent landing monitor function using a different technology.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2008 CVN 78
Major Hardware	1,755
Tech Data Documentation	53
Spares	204
Systems Engineering	667
Technical Engineering Services	151
Other	544
<b>TOTAL</b>	<b>3,374</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 08	CVN 78	TBD	TBD	1	1,755	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 08	CVN 78	Sep-15	TBD	12	TBD

V. COMPETITION/SECOND SOURCE INITIATIVES:

NONE

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
 February 2007

Ship Type: Carrier Replacement Program  
 ITEM: Information Assurance (IA) / Electronic Key Management System (EKMS)  
 PARM Code: PMW 160

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: Information Assurance (IA) was previous known as INFOSEC. IA provides the systems and support for C4I systems with IA Requirements. For example, Computer Network Defense (CND) provides the toolset to protect afloat networks. Crypto devices for other C4I programs are no longer centrally budgeted and procured.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2008 CVN 78
Major Hardware	5,058
Tech Data Documentation	75
Spares	229
Systems Engineering	247
Technical Engineering Services	59
Other	0
<b>TOTAL</b>	<b>5,668</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 08	CVN 78	TBD	TBD	1	5,058	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 08	CVN 78	Sep-15	24	12	Sep-12

V. COMPETITION/SECOND SOURCE INITIATIVES:

NONE

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
 February 2007

Ship Type: Carrier Replacement Program  
 ITEM: Integrated Communications and Advanced Networks/IVN(ICAN)  
 PARM Code: SEA62R6

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: ICAN provides the basic integrated system and building block for future Navy integrated voice systems with the SEA POWER 21 and ForceNet operational constructs. Functionally, Block 2 provides a single "virtual" and seamless system with expanded interface capabilities to other shipboard voice systems utilizing distributed hardware for system survivability. The physical architecture may have as few as 1 node, or as many as sixteen.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77
Major Hardware	5,120
Spares	325
Tech Data Documentation	700
Systems Engineering	1,090
Technical Engineering Services	490
Other	3,395
<b>TOTAL</b>	<b>11,120</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	L3 COMM Henschel/AVAYA	FFP	1	5,120	Jan-08

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	8	4	Apr-07

V. COMPETITION/SECOND SOURCE INITIATIVES:

NONE

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
 February 2007

Ship Type: Carrier Replacement Program  
 Equipment Line: Aircraft Launch System (Catapult Equipment)  
 PARM Code: PMA 251

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: Aircraft Launch System: The launching of an aircraft from the flight deck of an aircraft carrier requires that power, in addition to the aircraft's engines, be supplied during the take-off run in order to accelerate the aircraft to the necessary flying speed in the limited deck run available. This additional power is supplied by a catapult. The catapult consists of five major components: the engine and its control system, the shuttle, the tensioner, the holdback attachment point on the deck, and the retracting system.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77
Major Hardware	20,593
Technical Data and Documentation	486
Spares	95
Tech Engineering Services	4,276
Other Costs	3,099
<b>TOTAL</b>	<b>28,549</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	Multiple vendors managed by the PARM	Various	1	20,593	Various

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	32	36	Aug-02

V. COMPETITION/SECOND SOURCE INITIATIVES:

NONE

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
 February 2007

Ship Type: Carrier Replacement Program  
 Equipment Line: Aircraft Recovery System (Arresting Gear)  
 PARM Code: PMA 251

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The Mark 7 Arresting Gear is a linear hydraulic system which consists of three modules: the engine, the sheave damper, and the anchor damper. The Mark 7 arresting gear system provides for the successful recovery of aircraft onboard an aircraft carrier.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77
Major Hardware	9,536
Spares	229
Tech Engineering Services	3,703
Other Costs	<u>132</u>
<b>TOTAL</b>	<b>13,600</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	Multiple vendors managed by the PARM	Various	1	9,536	Various

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	30	36	Oct-02

V. COMPETITION/SECOND SOURCE INITIATIVES:

NONE

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
 February 2007

Ship Type: Carrier Replacement Program  
 Equipment Line: Electromagnetic Aircraft Launching System (EMALS)  
 PARM Code: PMA 251

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: EMALS is an advanced technology electrically generated launching system that uses a moving electromagnetic field to propel aircraft to launch speed. EMALS is made up of four primary sub-systems: energy storage, power conditioning, launch engine, and control system. Benefits over the current C-13 steam catapults include reduced weight and volume, greater launching flexibility for future aircraft, improved control, and reduced manning workload requirements.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2008 CVN 78
Major Hardware	211,311
Ancillary Equipment	1,640
Tech Data Documentation	6,191
Spares	14,789
Systems Engineering	52,444
Technical Engineering Services	13,018
Other Costs	18,283
<b>TOTAL</b>	<b>317,676</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 08	CVN 78	General Atomics	TBD	1	211,311	May-10

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 08	CVN 78	Sep-15	54	18	Sep-09

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
 February 2007

Ship Type: Carrier Replacement Program  
 Equipment Line: Dual Band Radar Suite (DBR) (includes SPY-3 and VSR)  
 PAMR Code: IWS2RA

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The DBR suite performs horizon and volume search functions during which the system can detect stealthy targets in sea-land clutter, provide periscope detection, and counter battery functions. The dual band approach (wave form integration) has the ability to provide improved performance in adverse environments, demonstrate avoidance of multi-radar track-to-track correlation and provides for reduced software development and maintenance. The SPY-3 function provides an affordable, high-performance radar for the ship's defense. SPY-3 greatly enhances ship defense capability against all surface and air threats envisioned in the littoral environment. VSR provides a solid state active phased array with low signature and a three-dimensional air search capability. The VSR function also provides long range above the horizon surveillance, detection, and tracking of high diving targets, and provides the SPY-3 with timely cueing and aircraft marshalling assistance.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2008 CVN 78
Major Hardware	157,587
Spares	4,793
Systems Engineering	4,283
Technical Engineering Services	6,017
Other Costs	29,217
<b>TOTAL</b>	<b>201,897</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY08	CVN 78	RAYTHEON	TBD	1	157,587	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY08	CVN 78	Sep-15	30	30	Sep-10

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
 February 2007

Ship Type: Carrier Replacement Program  
 Equipment Line: Advanced Arresting Gear  
 PARM Code: PMA 251

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: AAG provides an upgraded ability to recover all existing and projected aircraft carrier based air vehicles. The AAG system will replace the Mark 7 arresting gear system and consists of six primary systems; energy absorption subsystem, energy storage subsystem, dynamic control subsystem, thermal management subsystem, cross deck pendant, and the control subsystem.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2008 CVN 78
Major Hardware	41,941
Ancillary Equipment	1,870
Tech Data Documentation	1,972
Spares	5,452
Systems Engineering	4,406
Technical Engineering Services	8,038
Other Costs	11,322
<b>TOTAL</b>	<b>75,001</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 08	CVN 78	General Atomics	TBD	1	41,941	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 08	CVN 78	Sep-15	54	18	Sep-09

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
 February 2007

Ship Type: Carrier Replacement Program  
 Equipment Line: AN/SPQ-9B Radar Set  
 PARM Code: PEO IWS2

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The AN/SPQ-9B is a high resolution X-band narrow beam radar that provides both air and surface tracking information to standard plan position indicator consoles.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77
Major Hardware	5,900
Spares	351
Technical Data and Documentation	1,300
Tech Engineering Services	1,025
Other	960
TOTAL	9,536

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY01	CVN 77	Northrop Grumman/Norden	FFP	1	5,900	Oct-03

IV. DELIVERY DATE:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY01	CVN 77	Apr-08	21	24	Jul-04

V. Competition/Second Source Initiatives

None

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
 February 2007

Ship Type: Carrier Replacement Program  
 Equipment Line: AN/SPS-48E Air Search Radar  
 PARM Code: PEO IWS2

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The AN/SPS-48 Radar is the primary air search radar for the ship. This radar is a 3-D unit capable of providing not only range and bearing, but also altitude.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77
Major Hardware	6,016
Spares	400
Technical Data and Documentation	350
Systems Engineering	910
Tech Engineering Services	1,000
Other	4,510
<b>TOTAL</b>	<b>13,186</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	ITT/GIL	CPFF/FFP	1	6,016	Feb-00

IV. DELIVERY DATE:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	26	36	Feb-03

V. COMPETITION/SECOND SOURCE INITIATIVE

None

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
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Ship Type: Carrier Replacement Program  
 Equipment Line: AN/SPS-49(V)2 Air Search Radar  
 PARM Code: PEO IWS 2

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The AN/SPS-49 Radar is a narrow beam, very long range, two dimensional air search radar. In replacing some older radars which are nearing end of life, the AN/SPS-49 offers greatly improved operational performance, reliability and maintainability.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77
Major Hardware	6,114
Technical Data and Documentation	1,300
Tech Engineering Services	1,089
Other	829
TOTAL	9,332

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	Raytheon	FFP	1	6,114	Dec-02

IV. DELIVERY DATE:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	33	31	Dec-02

V. COMPETITION/SECOND SOURCE INITIATIVE  
 None

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
 February 2007

Ship Type: Carrier Replacement Program  
 Equipment Line: Phalanx Block 1B MK15 MOD 23 Weapons System  
 PARM CODE: IWS 3B

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: CIWS is a fast reaction, rapid-fire 20-millimeter gun system that provides US Navy ships with a terminal defense against anti-ship missiles that have penetrated other fleet defenses. Designed to engage anti-ship cruise missiles and fixed-wing aircraft at short range, CIWS automatically engages functions usually performed by separate, independent systems such as search, detection, threat evaluation, acquisition, track, firing, target destruction, kill assessment and cease fire.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2008 CVN 78
Major Hardware	14,477
Ancillary Equipment	501
Spares	1,699
Systems Engineering	1,348
Technical Engineering Services	616
Other Costs	1,725
<b>TOTAL</b>	<b>20,366</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 08	CVN 78	TBD	FP	3	4,826	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 08	CVN 78	Sep-15	TBD	22	TBD

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
 February 2007

Ship Type: Carrier Replacement Program

Equipment Line: AN/SQQ-34, Carrier Tactical Support Center w/ Integrated Warfare Center (CV-TSC), CVN 78 AN/SQQ 34 (C) (TSC-M) Maritime

PARM Code: PEO IWS 5B

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: CV-TSC provides for carrier organic Anti-submarine Warfare (ASW), Mine Warfare (MIW), Surface Warfare (SUW), and other composite warfare area sensor data processing, tactical command and control, and organic/battle-group aircraft mission support. CV-TSC and IWCC support both ship self defense and embarked Destroyer Squadron (DESRON) missions. This system is Open Architecture Computing Environment (OACE), Joint Fires Network (JFN), and FORCEnet compliant, and includes redesign to maximize introduction of expected transformational technologies such as Multi-Modal Watchstation (MMWS), Tactically Integrated Sensors (TIS), advanced sensors & sensor processing, high speed bandwidth network, Excomm systems, net-centric warfare components, etc. The CVN 78 system provides rollover CVN-70/CVN-77 CV-TSC system required to meet ASW objectives and requirements across the peace time/crisis/war continuum. Does not include IWCC or MH60 integrated mission systems capability.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77	FY 2008 CVN 78
Major Hardware	2,274	2,084
Spares	225	250
Systems Engineering		3,408
Technical Engineering Services	2,662	157
Other Costs	7,797	3,204
<b>TOTAL</b>	<b>12,958</b>	<b>9,103</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	Team Keyport/LM	CPFF	1	2,274	Oct-04
FY 08	CVN 78	TBD	TBD	1	2,084	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	19	9	Dec-05
FY 08	CVN 78	Sep-15	26	18	Jan-12

V. COMPETITION/SECOND SOURCE INITIATIVES:

CVN 77 None  
 CVN 78 None

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
 February 2007

Ship Type: Carrier Replacement Program  
 Equipment Line: Improved Fresnel Landing Optical Lighting System (IFLOLS)  
 PARM CODE: PMA 251

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The IFLOLS is the primary visual landing aide displaying glide path, and trend information to fixed wing pilots on final approach from 1.5 nautical miles to touchdown. It is centered between two fixed green datum reference bars. This stabilized "meatball" indicates to the pilot his position above, below, or on ideal glide slope by ball displacements above or below the datum reference.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77	FY 2008 CVN 78
Major Hardware	2,540	3,950
Spares	88	100
System Engineering		1,021
Technical Engineering Services	1,880	1,368
Other Costs	376	1,063
<b>TOTAL</b>	<b>4,884</b>	<b>7,502</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	Multiple vendors	MULTIPLE FFP	1	2,540	Various
FY 08	CVN 78	Raytheon	TBD	1	3,950	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	17	36	Nov-03
FY 08	CVN 78	Sep-15	26	30	Jan-11

V. COMPETITION/SECOND SOURCE INITIATIVES:

CVN 77    None  
 CVN 78    None

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

Ship Type: Carrier Replacement Program  
 Equipment Line: Multi-Modal Workstation (MMWS)  
 PARM Code: IWS 2B

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: MMWS is the next generation display workstation that will be capable of scaleable, multi-purpose and/or multi-modal operations including: integration and simultaneous display of distributed sensor, video, audio and data; reconfigurable screens tailored to mission(s) and/or operator(s); and reduced complexity of human-system interfaces (HSI). Utilizes touch screens, smart cards, and other HSI advances.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77
Major Hardware	1,350
Spares	250
System Engineering	1,900
Technical Data and Documentation	95
Other Costs	<u>6,455</u>
TOTAL	10,050

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	LM	FFP	1	1,350	Sep-04

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	0	18	Oct-06

V. COMPETITION/SECOND SOURCE INITIATIVE:

NONE

Note: Installation deferred until PSA

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
 February 2007

Ship Type: Carrier Replacement Program  
 Equipment Line: REARCHITECTURED NATO SEA SPARROW  
 PARM Code: PEO IWS 3D

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The Rearchitected NATO SEA SPARROW Surface Missile System consists of a guided missile fire control system containing a power driven illuminator with bore-sight television, below deck control, and a digital computation, lightweight/low silhouette, cell-type launcher in an 8 cell configuration. Directors will incorporate a transmitter enhancement. System will provide for cross launcher assignments.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77
Major Hardware	15,155
Spares	1,124
System Engineering	2,390
Tech Engineering Services	1,729
Other Costs	8,032
<b>TOTAL</b>	<b>28,430</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	Raytheon	FFP	1	15,155	Jan-04

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	21	18	Jan-05

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
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Ship Type: Carrier Replacement Program  
 Equipment Line: Guided Missile Launcher System Evolved Sea Sparrow Missile (GMLS ESSM) MK29 MOD 4  
 PARM Code: PEO IWS 3

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The MK29 ESSM ORDALT will provide CVN 78 with an affordable, light weight, means of employing ESSM. The Evolved Launching System (ELS) is a vertical launching system that is proposed to replace the Navy's aging and unreliable MK 29 Guided Missile Launching System (GMLS) by leveraging existing technology and current development efforts including Commercial-Off-The-Shelf/ Non Developmental Items (COTS/NDI) electronics and the Ship Self Defense System (SSDS). The ELS will use a fully open architecture and standard Navy displays.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2008 CVN 78
Major Hardware	7,946
Ancillary Equipment	160
Spares	326
Systems Engineering	1,572
Technical Engineering Services	1,734
Other Costs	7,246
<b>TOTAL</b>	<b>18,984</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 08	CVN 78	RAYTHEON	FFP	2	3,973	Jul-09

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 08	CVN 78	Sep-15	30	24	Mar-11

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
 February 2007

Ship Type: Carrier Replacement Program  
 ITEM: Naval Strike Warfare Planning Center (NSWPC)  
 PARM Code: PMA 281

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: Naval Strike Warfare Planning Center (NSWPC) is a collection of interfaced and integrated systems that together provide the following functions:  
 Intelligence information processing: Collection, Exploitation, and Analysis; Strike Planning: Tactical Air (TACAIR), TOMAHAWK Debrief/Reporting.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77
Major Hardware	
Spares	
Systems Engineering	
Technical Engineering Services	2,470
Other	85
TOTAL	<u>2,555</u>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	Multiple vendors managed by the PARM	Various	1	0	Various

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	0	28	Dec-05

V. COMPETITION/SECOND SOURCE INITIATIVES:

NONE

Note: Installation deferred until PSA

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
 February 2007

Ship Type: Carrier Replacement Program  
 ITEM: Tactically Integrated Sensors (TIS) Enhancement to CV-TSC  
 PARM Code: PEO IWS-5B1

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: CV-TSC is the host system for the Tactically Integrated Sensors (TIS) enhancement, which is a new capability being funded under the CVN 77 Congressional Plus Up. With TIS, human operators will no longer monitor sonobuoy waterfall displays; which were tedious tasks that required a significant amount of operator proficiency training. Instead, processing enhancements will monitor sonobuoy outputs for anomalies, and display enhancements will provide a graphical display of acoustic detections for the operator. This capability enhancement will increase the number of sonobuoys that can be simultaneously deployed and monitored from (4) to (32) with no increase in manpower.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77
Major Hardware	577
Systems Engineering	226
Technical Engineering Services	100
Other	5,470
<b>TOTAL</b>	<b>6,373</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	Team Keyport/LM	CPFF	1	577	Oct-04

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	0	9	Jul-07

V. COMPETITION/SECOND SOURCE INITIATIVES:

NONE

Note: CVN 77 Installation deferred until PSA

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
 February 2007

Ship Type: Carrier Replacement Program

ITEM: CVN 77 Aviation Data Management and Control System (ADMACS) BLOCK 1 / CVN 78 Aviation Data Management and Control System (ADMACS) BLOCK 3

PARM Code: PMA 251

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: ADMACS is a virtual, seamless, data sharing, knowledge based data system that provides interface for all aviation data systems. It is a tactical real-time information management system maintaining data integrity throughout the ship spaces that manage aircraft launch and recovery operations on board the carrier. ADMACS includes data from launch and recovery equipment, air traffic control, aviation maintenance, landing signalling officer, etc. The CVN 78 version is ADMACS Block 3.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77	FY 2008 CVN 78
Major Hardware	825	3,586
Tech Data Documentation	150	209
Systems Engineering	204	780
Technical Engineering Services	609	1,012
Other	1,895	565
<b>TOTAL</b>	<b>3,683</b>	<b>6,152</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	Multiple vendors managed by the PARM	MULTIPLE FFP	1	825	Various
FY 08	CVN 78	TBD	TBD	1	3586	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	22	12	Jun-05
FY 08	CVN 78	Sep-15	26	12	Jul-12

V. COMPETITION/SECOND SOURCE INITIATIVES:

CVN 77	None
CVN 78	None

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
 February 2007

Ship Type: Carrier Replacement Program  
 ITEM: Integrated Launch and Recovery TV Surveillance System (ILARTS)  
 PARM Code: PMA 251

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The primary purpose of the ILARTS system is to simultaneously monitor and record aircraft recoveries and launches aboard aircraft carriers during both day and night operations. This system also provides the LSO with information on aircraft lineup during recovery and is used both as a pilot debriefing medium and as a detailed accident analysis tool. ILARTS consists of six cameras in different locations aboard ship that are connected to a closed circuit television system.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77	FY 2008 CVN 78
Major Hardware	2,000	4,865
Technical Engineering Services	850	191
Systems Engineering		837
Other	146	106
<b>TOTAL</b>	<b>2,996</b>	<b>5,999</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	Multiple vendors managed by the PARM	MULTIPLE FFP	1	2,000	Various
FY 08	CVN 78		FFP	1	4,865	Nov-10

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	14	24	Feb-05
FY 08	CVN 78	Sep-15	19	36	Feb-11

V. COMPETITION/SECOND SOURCE INITIATIVES:

CVN 77     None  
 CVN 78     None

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
 February 2007

Ship Type: Carrier Replacement Program  
 ITEM: Advanced Sensor Distribution System (ASDS)  
 PARM Code: IWS 2R1

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: ASDS provides ship radar signal digital conversion and distribution to displays and consoles throughout the ship.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77
Major Hardware	1,276
Spares	15
Systems Engineering	73
Technical Engineering Services	806
Other	1,139
<b>TOTAL</b>	<b>3,309</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	Frontier Engineering Sys, Inc	IDIQ	1	1,276	Oct-03

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	19	12	Sep-05

V. COMPETITION/SECOND SOURCE INITIATIVES:

NONE

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
 February 2007

Ship Type: Carrier Replacement Program  
 Equipment Line: MK 49 Guided Missile Launcher System Helos, Aircraft & Surface (GMLS HAS)  
 PARM Code - PEO IWS 3B1C

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The MK 49 Rolling Airframe Missile Weapon System is a lightweight, low cost, high power system for anti-ship missile defense against current and evolving threats. The Block 1 upgrade adds the capability of infrared, all-the-way missile guidance while maintaining the original dual-mode (RF/IR) capability. The Helos, Aircraft, and Surface (HAS) upgrade enables the engagement of asymmetric threats.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2001 CVN 77	FY 2008 CVN 78
Major Hardware	7,333	3,213
Ancillary Equipment		271
Tech Data Documentation		28
Spares	130	302
Systems Engineering	2350	4,504
Technical Engineering Services	140	175
Other Costs	3,134	2,459
<b>TOTAL</b>	<b>13,087</b>	<b>10,952</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN 77	Raytheon	FFP	2	3,667	Apr-00
FY 08	CVN 78	Raytheon	FFP	2	1,607	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 01	CVN 77	Apr-08	22	24	Jun-04
FY 08	CVN 78	Sep-15	31	24	Feb-11

V. COMPETITION/SECOND SOURCE INITIATIVES:

CVN 77	None
CVN 78	None

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

P-35 EXHIBIT  
 FY 2008/ FY 2009 President's Budget  
 February 2007

Ship Type: Carrier Replacement Program  
 ITEM: Joint Strike Fighter Autonomic Logistics Information System (JSF ALIS)  
 PARM Code: JSF JPO

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The Autonomic Logistics Information System (ALIS) is an integral part of the support concept for the F-35 JSF. ALIS provides up-to-the-minute operational, mission, planning, and de-briefing information as well as current and predicted air vehicle health, availability, and status that enables the Warfighter to perform timely prioritization and redirection of resources.

II. CURRENT FUNDING:

SHIP TYPE:	FY 2008 CVN 78
Major Hardware	819
Ancillary Equipment	5
Tech Data Documentation	55
Spares	101
Systems Engineering	568
Technical Engineering Services	614
Other	1,569
<b>TOTAL</b>	<b>3,731</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 08	CVN 78	TBD	TBD	TBD	819	TBD

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIP</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEAD-TIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 08	CVN 78	Sep-15	TBD	TBD	TBD

V. COMPETITION/SECOND SOURCE INITIATIVES:

NONE

Exhibit P-10, Advance Procurement Requirements Analysis (Page 1 - Funding)					Date: <b>February 2007</b>								
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number <b>BA #2 OTHER WARSHIPS</b>					P-1 Line Item Nomenclature <b>CARRIER REPLACEMENT PROGRAM</b>								
Weapon System <b>BLI 200100 CVN 79</b>				First System Award Date <b>Dec-11</b>			First System Completion Date <b>Sep-19</b>						
(\$ in Millions)													
	PLT	When Req'd	Prior Years	PY FY 06	CY FY 07	BY1 FY 08	BY2 FY09	BY3 FY10	BY4 FY11	BY5 FY12	BY6 FY13	To Complete	Total
End Item Qty												TBD	TBD
Plans (Detailed)	Up to 36						32.5	36.8	48.2			TBD	117.5
Nuc Prop Equip	30-96				52.5	124.4	366.5	1,284.2	93.8			TBD	1,921.4
Basic	30-60							294.5	318.0			TBD	612.5
HM&E								5.0	5.0			TBD	10.0
Total AP			0.0	0.0	52.5	124.4	399.0	1,620.5	465.0	0.0	0.0	TBD	2,661.4
Description:													
<p><b>Plans</b> funding is required to support the CVN 79 integrated design and construction schedule. Funding is required to efficiently and effectively complete design integration efforts, detailed design, and construction planning taking advantage of integrated product and process development to insert transformational technologies while reducing both construction costs and potential costly construction rework.</p> <p><b>Nuclear Propulsion Equipment</b> (GFE) funding is required to fund a shipset of reactor plant components for CVN 79. The complexity, size and early shipyard need dates for reactor plant equipment make them among the longest lead items for CVN 79.</p> <p><b>Hull, Mechanical, &amp; Electrical</b> (HM&amp;E) funding is required for government furnished engineering services support.</p> <p><b>Basic</b> shipbuilder advance construction funding is required for both procurement of the longest lead non-reactor plant propulsion and electric plant contractor furnished equipment and advance construction efforts necessary to support an efficient CVN 79 construction schedule.</p>													

Exhibit P-10, Advance Procurement Requirements Analysis

Exhibit P-10, Advance Procurement Requirements Analysis (Page 2 - Budget Justification)								Date: <b>February 2007</b>				
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number <b>BA #2 OTHER WARSHIPS</b>						Weapon System <b>CVN 79</b>		P-1 Line Item Nomenclature <b>CARRIER REPLACEMENT PROGRAM</b>				
(TOA, \$ in Millions)												
	PLT	QPA	Unit Cost	CY FY 07 Qty	CY Contract Forecast Date	CY FY 07 Cost Request	BY 1 FY 08 Qty	BY 1 Contract Forecast Date	BY 1 FY 08 Cost Request	BY 2 FY 09 Qty	BY 2 Contract Forecast Date	BY 2 FY 09 Cost Request
Plans (Detailed)	Up to 36		TBD								October-08	32.5
Nuc Prop Equip	30-96		TBD		October-06	52.5		October-07	124.4		October-08	366.5
Total AP			TBD			52.5			124.4			399.0
CVN 79 AP occurs in FY2007 - FY2011 for a FY2012 contract award.												

Exhibit P-10, Advance Procurement Funding

APPROPRIATION/BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

Ship and Conversion, Navy/BA#2 OTHER WARSHIPS

Virginia Class Submarine

BLI: 201300

	PRIOR YEARS	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	TO COMPLETE	TOTAL PROGRAM
QUANTITY	7	1	1	1	1	1	1	2	2	13	30
End Cost	17794.2	2378.4	2604.4	2653.7	2864.5	2783.0	2904.2	5181.7	5368.3	39957.8	84490.1
Less Advance Procurement	5069.8	621.9	645.9	667.3	687.5	713.9	727.6	1421.0	1460.5	10992.2	23007.6
Less Transfer / CTC	1683.0										1683.0
Less EOQ	63.6	141.8	190.6	190.2	.0	82.8	192.7	501.0	500.8	1890.	3753.5
Full Funding	10977.8	1614.8	1768.0	1796.2	2177.0	1986.3	1983.9	3259.6	3406.9	27075.6	56046.0
Plus Advance Procurement	6136.7	657.4	673.7	702.7	719.8	1156.6	1439.0	1493.5	1549.7	8478.4	23007.6
Plus Transfer / CTC	1090.2	180.9	111.0								1382.1
Plus EOQ	489.5	96.6			496.2	514.9	266.4			1890.0	3753.5
Total Obligational Authority	18694.2	2549.6	2552.7	2498.9	3392.9	3657.8	3689.3	4753.1	4956.7	37444.0	84189.2
Plus Outfitting and Post Delivery	100.7	51.6	74.1	72.4	74.1	76.0	68.4	72.5	70.0	1827.0	2486.8
Total	18794.9	2601.2	2626.8	2571.3	3467.0	3733.8	3757.8	4825.6	5026.7	39271.0	86675.9
Unit Cost (Ave. End Cost)	2542.0	2378.4	2604.4	2653.7	2864.5	2783.0	2904.2	2590.8	2684.1	3073.7	2816.3

NOTE: These VA Class Exhibits reflect a FY04-08 Multi-Year Procurement (MYP) strategy with EOQ in FY04-06, a FY09 - FY13 MYP strategy with EOQ in FY09-11.

MISSION: To seek out and destroy enemy ships across a wide spectrum of tactical scenarios, working both independently and in consort with a battle group/other ships, providing Joint Commanders with early, accurate knowledge of the battlefield on which power may be projected from sea; covert striking power against targets ashore; the capability to establish covertly an expeditionary force on land; and the maritime strength to destroy enemy naval forces and interdict seaborne commerce.

Characteristics:

Hull  
 Length overall 377'  
 Beam 34'  
 Displacement 7830  
 Draft 32'

Production Status:

Multi Year Procurement Contract  
 Awarded (Month)

Months to Complete

a) Award to Delivery  
 b) Construction Start to Delivery

Commissioning Date  
 Completion of Fitting Out  
 OWLD

FY07  
 SSN 782  
 Jan-04

01/04 - 04/13  
 08/06 - 04/13

May-13  
 Apr-13  
 Mar-14

FY08  
 SSN 783  
 Jan-04

01/04 - 04/14  
 08/07 - 04/14

May-14  
 Apr-14  
 Mar-15

Major Electronics:

Command, Control, Communications and Intelligence System  
 - Open System Architecture  
 - Twenty-three Subsystems

UNCLASSIFIED  
CLASSIFICATION

EXHIBIT P-5  
FY2008 / FY2009 President's Budget  
February 2007  
BLI: 201300

APPROPRIATION: SHIPBUILDING AND  
CONVERSION, NAVY

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)

BUDGET ACTIVITY: 2 P-1 ITEM NOMENCLATURE: Virginia Class Submarine		SUBHEAD: 7230 / 7231 / 7232 / H230 / H232 / 8560														
OTHER WARSHIPS																
	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009								
ELEMENTS OF COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST				
PLAN COSTS	1	76,378	1	36,637	1	55,084	1	63,710	1	65,112	1	68,296	1	72,903	1	76,185
BASIC CONST/CONVERSION		1,371,139		1,487,397		1,484,626		1,533,056		1,575,661		1,743,622		1,722,905		1,901,839
TECHNOLOGY INSERTION		16,354		0		0		0		0		47,206		85,700		101,267
ELECTRONICS		229,134		223,935		211,483		211,320		219,091		226,582		238,695		242,085
PROPULSION EQUIPMENT		431,200		429,000		430,600		431,337		435,000		445,000		456,000		462,931
HM&E		181,835		43,820		52,598		24,849		55,561		44,699		46,752		48,901
OTHER COST		26,097		21,162		20,232		24,907		27,994		29,033		30,713		31,300
ORDNANCE		0		0		0		0		0		0		0		0
ESCALATION		0		0		0		0		0		0		0		0
TOTAL SHIP ESTIMATE		2,332,137		2,241,951		2,254,623		2,289,179		2,378,419		2,604,438		2,653,668		2,864,508
LESS AP FY96																
LESS AP FY97																
LESS AP FY98																
LESS AP FY99																
LESS AP FY00		599,624														
LESS AP FY01		67,254		429,000												
LESS AP FY02				249,862		431,109										
LESS AP FY03						200,751		431,337								
LESS AP FY04								169,184		435,000						
LESS AP FY05										186,864						
LESS AP FY06												445,000				
LESS AP FY07*												200,874		456,520		
LESS AP FY08														210,795		462,931
																224,614
LESS EQ FY04							63,551		63,551		63,294		63,294			
LESS EQ FY05									78,234		77,876		79,676			
LESS EQ FY06											49,418		47,192			
LESS:FY01 TRANSFER																
LESS:FY02 TRANSFER																
LESS:FY03 TRANSFER																
LESS:FY04 TRANSFER																
LESS:FY05 TRANSFER																
LESS:FY06 TRANSFER																
LESS:FY07 PENDING CTC		28,000		22,000												
LESS:FY08 PENDING CTC		45,000		40,000		24,000										
LESS:FY09 PENDING CTC		21,000		32,425		30,000										
LESS:FY10 PENDING CTC						56,906		51,606								
LESS: in FY04 FY99 SCN																
LESS: in FY04 FY04 SCN																
LESS: in FY05 FY03 SCN																
LESS: in FY05 FY04 SCN																
NET P-1 LINE ITEM		1,571,259		1,468,664		1,511,857		1,573,501		1,614,770		1,767,976		1,796,191		2,176,963

\*FY 2007 includes AP execution realignment between ships.

SHIPBUILDING AND CONVERSION, NAVY  
Analysis of Ship Cost Estimate - Basic/Escalation

Fiscal Year: 2007/2008

Ship Type: VIRGINIA CLASS

I.	<u>Design Schedule:</u>	<u>Start/Issue</u>	<u>Complete/Response</u>	<u>Reissue Complete/Response</u>
	Issue Date for TLR	N/A	N/A	
	Issue Date for TLS	N/A	N/A	
	Preliminary Design	Oct-93	Sep-95	
	Contract Design	Oct-94	Sep-96	
	Detail Design	Jan-96	Jun-04	
	Request for Proposals	N/A	N/A	
	Design Agent	Electric Boat		
II.	<u>Classification of Cost Estimate</u>	C		
III.	<u>Basic Construction/Conversion</u>	<u>FY2007</u>	<u>FY2008</u>	
	A. Award Date	Jan-04	Jan-04	
	B. Contract Type and Share Line	FPI	FPI	Multi Year Procurement with EOQ.
	C. Request for Proposals: Start/Issue: Jul 02		Complete/Response: Sept-02	
IV.	<u>Escalation</u>			
	Base Date	N/A	N/A	
	Escalation Target Date	N/A	N/A	
	Escalation Termination Date	N/A	N/A	
	Escalation Requirement (\$K)	N/A	N/A	
	Labor/Material Split	N/A	N/A	
	Allowable Overhead Rate	N/A	N/A	
V.	<u>Other Basic (Reserves/Miscellaneous)</u>	<u>Amount</u>	<u>Amount</u>	
	Item	N/A	N/A	

SHIPBUILDING AND CONVERSION, NAVY  
SHIP PRODUCTION SCHEDULE

EXHIBIT P-27  
FY2008 / FY2009 President's Budget  
February 2007  
BLI: 201300

SHIP TYPE	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
SSN775	EB/NNS	99	Sep-98	Sep-98	Jun-06
SSN776	EB/NNS	01	Sep-98	Oct-99	Dec-06
SSN777	EB/NNS	02	Sep-98	Mar-01	Jun-08
SSN778	EB/NNS	03	Aug-03	Aug-02	Apr-09
SSN779	EB/NNS	04	Jan-04	Mar-03	Apr-10
SSN780	EB/NNS	05	Jan-04	Oct-04	Apr-11
SSN781	EB/NNS	06	Jan-04	Apr-05	Apr-12
SSN782	EB/NNS	07	Jan-04	Aug-06	Apr-13
SSN783	EB/NNS	08	Jan-04	Aug-07	Apr-14
SSN784	TBD	09	Oct-08	Aug-08	Apr-15
SSN785	TBD	10	Oct-08	TBD	TBD
SSN786	TBD	11	Oct-08	TBD	TBD
SSN787	TBD	12	Oct-08	TBD	TBD
SSN788	TBD	12	Oct-08	TBD	TBD
SSN789	TBD	13	Oct-08	TBD	TBD
SSN790	TBD	13	Oct-08	TBD	TBD

SHIPBUILDING AND CONVERSION, NAVY  
Analysis of Ship Cost Estimates - Major Equipment  
(Dollars in Thousands)

Ship Type:

VIRGINIA CLASS

	FY 06 TOTAL		FY 07 TOTAL		FY08 TOTAL		FY09 TOTAL	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
<b>ELECTRONICS EQUIPMENT</b>								
a. P-35 Items								
1. Sonar, Combat Control & Architecture	1	\$92,529	1	\$99,037	1	\$102,341	1	\$101,991
2. ESM	1	\$24,752	1	\$25,320	1	\$25,824	1	\$26,240
3. Photonics Masts	1	\$15,364	1	\$15,792	1	\$16,307	1	\$16,733
4. UMMs	1	\$9,996	1	\$10,290	1	\$10,346	1	\$10,553
Subtotal		\$142,641		\$150,439		\$154,818		\$155,517
b. Major Items								
1. SRWS	1	\$4,617	1	\$4,558	1	\$4,672	1	\$4,766
2. System Level Activities	1	\$18,711	1	\$19,953	1	\$22,976	1	\$24,537
3. AN/BPS-16	1	\$5,206	1	\$5,314	1	\$5,416	1	\$5,524
4. Navigation	1	\$2,993	1	\$3,058	1	\$3,135	1	\$3,198
5. AN/UYQ-70	1	\$11,678	1	\$12,256	1	\$11,798	1	\$12,034
6. ECS	1	\$7,494	1	\$7,673	1	\$7,832	1	\$7,897
7. CWITT	1	\$13,104	1	\$13,022	1	\$12,613	1	\$12,857
8. NPES SE&I	1	\$12,040	1	\$9,670	1	\$14,781	1	\$15,087
Subtotal		\$75,843		\$75,504		\$83,223		\$85,900
c. Other Electronics								
1. Misc Electronics		\$607		\$639		\$654		\$668
Subtotal		\$607		\$639		\$654		\$668
<b>TOTAL ELECTRONICS</b>		<b>\$219,091</b>		<b>\$226,582</b>		<b>\$238,695</b>		<b>\$242,085</b>

I. DESCRIPTION/CHARACTERISTICS/PURPOSE

The VIRGINIA Class Command, Control, Communications and Intelligence (C3I) System is the electronics suite which will provide required operational and warfighting capability for the Navy's newest attack submarine. The C3I System includes 15 subsystems (23 if all electronically interfaced subsystems are included) integrated by an overarching Architecture Subsystem. This P-35 covers the procurement requirements for the following: C3I Prime Contractor Furnished Equipment (Sonar, Combat Control and Architecture subsystems) and associated Government Furnished Equipment; technical data documentation; spares; technical engineering services; design engineering services; field engineering services; management support services; and shipboard certification efforts. The FY03 Towed Array capability under the SCCA subsystems will require OPN modernization upgrades to be fully capable SCCA subsystems.

Quantity of 1 per hull

II. CURRENT FUNDING:

SHIP:	FY06	FY07	FY08	FY09
MAJOR HARDWARE	\$71,754	\$74,894	\$77,393	\$77,128
TECH ENGINEERING SERVICES	\$4,088	\$4,267	\$4,409	\$4,394
OTHER COSTS	\$16,687	\$19,876	\$20,539	\$20,469
TOTAL	\$92,529	\$99,037	\$102,341	\$101,991

III. CONTRACT DATA:

PROGRAM	YEAR	SHIP TYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE	CONTRACT TYPE	NEW / OPTION
	06	SSN781	LMNESS/Raytheon	1 Shipset	\$50,600	Mar-06	SS / CPIF	Option
	07	SSN782	LMNESS/Raytheon	1 Shipset	\$51,200	Mar-07	SS / CPIF	Option
	08	SSN783	LMNESS/Raytheon	1 Shipset	\$51,900	Mar-08	SS / CPIF	Option
	09	SSN784	LMNESS/Raytheon	1 Shipset	\$52,525	Mar-09	TBD	New

IV. DELIVERY DATA:

FY	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEAD TIME	REQUIRED AWARD DATE
06	SSN781	Apr-12	37	32	Jul-06
07	SSN782	Apr-13	37	32	Jul-07
08	SSN783	Apr-14	37	32	Jul-08
09	SSN784	Apr-15	37	32	Jul-09

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

## I. DESCRIPTION/CHARACTERISTICS/PURPOSE

The VIRGINIA Class Command, Control, Communications and Intelligence (C3I) System is the electronics suite which will provide required operational and warfighting capability for the Navy's newest attack submarine. The C3I System includes 15 subsystems (23 if all electronically interfaced subsystems are included) integrated by an overarching Architecture Subsystem. This P-35 covers the procurement requirements for the following: Electronic Support Measures subsystem Prime Contractor Furnished Equipment, and associated Government Furnished Equipment; technical data documentation; spares; systems engineering; technical engineering services; computer program support; system test & evaluation; field engineering services; management support services; shipboard certification efforts; quality assurance and reliability/maintainability assurance; maintenance of technical data; and contractor support services efforts. This system provides the capability to process a variety of electromagnetic signal types over a wide frequency range in support of all applicable submarine mission areas. The FY03-04 ESM subsystems will require OPN modernization upgrades to be fully capable ESM subsystems.

Quantity of 1 per hull

## II. CURRENT FUNDING:

SHIP:	FY06	FY07	FY08	FY09
MAJOR HARDWARE	\$18,803	\$19,199	\$19,582	\$19,897
TECH ENGINEERING SERVICES	\$1,047	\$1,077	\$1,098	\$1,116
OTHER COSTS	\$4,902	\$5,044	\$5,144	\$5,227
TOTAL	\$24,752	\$25,320	\$25,824	\$26,240

## III. CONTRACT DATA

PROGRAM YEAR	SHIP TYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE	CONTRACT TYPE	NEW / OPTION
06	SSN781	LM, Syracuse	1 Shipset	\$18,803	Nov-06	SS / FP	New
07	SSN782	LM, Syracuse	1 Shipset	\$19,199	Nov-07	SS / FP	New
08	SSN783	LM, Syracuse	1 Shipset	\$19,582	Nov-08	SS / FP	New
09	SSN784	LM, Syracuse	1 Shipset	\$19,897	Nov-09		New

## IV. DELIVERY DATA:

FY	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEAD TIME	REQUIRED AWARD DATE
06	SSN781	Apr-12	37	18	Sep-07
07	SSN782	Apr-13	37	18	Sep-08
08	SSN783	Apr-14	37	18	Sep-09
09	SSN784	Apr-15	37	18	Sep-10

## V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

P-35  
 ITEM: PHOTONICS MAST

I. DESCRIPTION/CHARACTERISTICS/PURPOSE

The VIRGINIA Class Command, Control, Communications and Intelligence (C3I) System is the electronics suite which will provide required operational and warfighting capability for the Navy's newest attack submarine. The C3I System includes 15 subsystems (23 if all electronically interfaced subsystems are included) integrated by an overarching Architecture Subsystem. This P-35 covers the procurement requirements for the following: Photonics subsystem Prime Contractor Furnished Equipment; spares; systems engineering; technical engineering services; computer program support; field engineering services; management support services; shipboard certification; maintenance of technical data; and contractor support services efforts. This system consists of two outboard mast/antenna/camera assemblies and the associated inboard processing and display equipment. This system supports visual and infrared (IR) imaging, RF signal communications, early warning and contact direction finding capability.

Quantity of 1 per hull

II. CURRENT FUNDING:

SHIP:	FY06	FY07	FY08	FY09
MAJOR HARDWARE	\$11,024	\$11,361	\$11,731	\$12,038
TECH ENGINEERING SERVICES	\$536	\$547	\$565	\$580
OTHER COSTS	\$3,804	\$3,884	\$4,011	\$4,115
TOTAL	\$15,364	\$15,792	\$16,307	\$16,733

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE	CONTRACT TYPE	NEW / OPTION
06	SSN781	Kollmorgen	1 Shipset	\$11,024	Sep-06	SS / FP/ CPFF	New
07	SSN782	Kollmorgen	1 Shipset	\$11,361	Sep-07	SS / FP/ CPFF	New
08	SSN783	Kollmorgen	1 Shipset	\$11,731	Sep-08	SS / FP/ CPFF	New
09	SSN784	Kollmorgen	1 Shipset	\$12,038	Sep-09	TBD	New

IV. DELIVERY DATA:

FY	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEAD TIME	REQUIRED AWARD DATE
06	SSN781	Apr-12	37	24	Mar-07
07	SSN782	Apr-13	37	24	Mar-08
08	SSN783	Apr-14	37	24	Mar-09
09	SSN784	Apr-15	37	24	Mar-10

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

I. DESCRIPTION/CHARACTERISTICS/PURPOSE

The VIRGINIA Class Command, Control, Communications and Intelligence (C3I) System is the electronics suite which will provide required operational and warfighting capability for the Navy's newest attack submarine. The C3I System includes 15 subsystems (23 if all electronically interfaced subsystems are included) integrated by an overarching Architecture Subsystem. This P-35 covers the procurement requirements for the following: Modular Mast Prime Contractor Furnished Equipment; technical data documentation; spares; systems engineering; technical engineering services; management support services; shipboard certification; and maintenance of technical data efforts. This system consists of eight common masts for purposes of housing, raising and lowering antenna and other sensor units.

Quantity of 1 per hull  
 II. CURRENT FUNDING:

SHIP:	FY06	FY07	FY08	FY09
MAJOR HARDWARE	\$7,978	\$8,217	\$8,262	\$8,427
TECH ENGINEERING SERVICES	\$731	\$751	\$755	\$770
OTHER COSTS	\$1,287	\$1,322	\$1,329	\$1,356
TOTAL	\$9,996	\$10,290	\$10,346	\$10,553

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE	CONTRACT TYPE	NEW / OPTION
06	SSN781	Kollmorgen	1 Shipset	\$7,978	Mar-06	SS / FP	Option
07	SSN782	Kollmorgen	1 Shipset	\$8,217	Oct-06	SS / FP	New
08	SSN783	Kollmorgen	1 Shipset	\$8,262	Oct-07	SS / FP	Option
09	SSN784	Kollmorgen	1 Shipset	\$8,427	Oct-08	SS / FP	Option

IV. DELIVERY DATA:

FY	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEAD TIME	REQUIRED AWARD DATE
06	SSN781	Apr-12	41	27	Aug-06
07	SSN782	Apr-13	41	27	Aug-07
08	SSN783	Apr-14	41	27	Aug-08
09	SSN784	Apr-15	41	27	Aug-09

V. COMPETITION/SECOND SOURCE INITIATIVES  
 N/A

UNCLASSIFIED  
CLASSIFICATION

SHIPBUILDING AND CONVERSION, NAVY  
Analysis of Ship Cost Estimates - Major Equipment  
(Dollars in Thousands)

Ship Type:  
VIRGINIA CLASS

	<u>QTY</u>	FY 06 TOTAL COST	<u>QTY</u>	FY07 TOTAL COST	<u>QTY</u>	FY08 TOTAL COST	<u>QTY</u>	FY09 TOTAL COST
HM&E EQUIPMENT								
a. P-35 Items								
1. Propulsor	1	\$39,253	1	\$28,516	1	\$29,826	1	\$31,657
Subtotal		\$39,253		\$28,516		\$29,826		\$31,657
b. Major Items								
1. CSA MK2	1	\$1,243	1	\$1,260	1	\$1,320	1	\$1,360
Subtotal		\$1,243		\$1,260		\$1,320		\$1,360
c. Other								
1. HM&E Installation and testing		\$7,942		\$7,966		\$8,279		\$8,444
2. T&E		\$6,123		\$5,957		\$6,327		\$6,440
3. SUPSHIP responsible material		\$1,000		\$1,000		\$1,000		\$1,000
Subtotal		\$15,065		\$14,923		\$15,606		\$15,884
TOTAL HM&E		\$55,561		\$44,699		\$46,752		\$48,901

P-35

ITEM: PROPULSOR

I. DESCRIPTION/CHARACTERISTICS/PURPOSE

The propulsor consists of Ni-Al-bronze blades and a large steel and inconel fabrication piece. The purpose of the propulsor is to generate proper thrust to propel the ship at a rated speed within the approved limits of torque and shaft RPM, while at the same time meeting acoustic and structural requirements. This design is unique to the VIRGINIA Class. The propulsor consists of a large quantity of government supplied material and a contract for the fixed portion construction and assembly.

II. CURRENT FUNDING:

Quantity of 1 per hull

SHIP:	FY06	FY07	FY08	FY09
MAJOR HARDWARE	34,942	24,323	25,745	26,527
TECH ENGINEERING SERVICES	4,311	4,193	4,081	5,130
OTHER COSTS				
TOTAL	39,253	28,516	29,826	31,657

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE	CONTRACT TYPE	NEW / OPTION
06	SSN781	BAE Systems	1 Shipset	13,476	May-04	FP	Option
07	SSN782	BAE Systems	1 Shipset	14,053	May-04	FP	Option
08	SSN783	BAE Systems	1 Shipset	14,617	May-04	FP	Option
09	SSN784	BAE Systems	1 Shipset	15,200	TBD	FP	New

IV. DELIVERY DATA:

FY	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEAD TIME	REQUIRED AWARD DATE
06	SSN781	Apr-12	26	36	Feb-07
07	SSN782	Apr-13	26	36	Feb-08
08	SSN783	Apr-14	26	36	Feb-09
09	SSN784	Apr-15	26	36	Feb-10

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

Exhibit P-10, Advance Procurement Requirements Analysis (Page 1 - Funding)							FY2008 / FY2009 President's Budget February-07						
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number 1711 Shipbuilding and Conversion, Navy / BA 02 / BLI 20130C FY2008 / FY2009 President's Budget							P-1 Line Item Nomenclature VIRGINIA CLASS SUBMARINE						
Weapon System VIRGINIA Class Submarines (\$ in Millions)				First System (BY1) Award Date Various			First System (BY1) Completion Date Various						
BLI: 201300	PLT	When Req'd	Prior Years	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	To Complete	Total
NUCLEAR PROPULSION PLANT EQUIPMENT (1)	30-72	Various	3903.3	456.0	462.9	474.0	484.0	913.0	931.0	964.1	998.1	4999.5	14585.8
ELECTRONICS EQUIPMENT (2)	37-43	Various	100.1	13.5	13.8	14.4	14.9	15.2	31.2	31.9	32.7	193.7	461.4
NON-NUCLEAR PROPULSION PLANT EQUIPMENT			605.3	10.5	10.9	11.9	12.5	13.	27.1	28.2	29.4	185.6	934.3
*Heat Exchanger	18	Various	17.7										17.7
Propulsor (3)	36	Various	124.1	10.5	10.9	11.9	12.5	13.0	27.1	28.2	29.4	185.6	453.2
*Main Condensers	66	Various	33.0										33.0
*Switchboards Elec	18	Various	20.8										20.8
Main Propulsion Complex (4)	46	Various	355.7										355.7
Pumps & Valves	18	Various	53.9										53.9
LONG LEAD-TIME CFE (5)	24 - 42	Various	895.9	177.4	186.1	202.4	208.4	215.4	449.7	469.3	489.6	3099.7	6393.9
DETAIL DESIGN/DESIGN TRANSFER/SHIPBUILDER INTEGRATION			480.6									.0	480.6
ADVANCE CONSTRUCTION (6)			148.3									.0	148.3
OTHER (7)			3.2									.0	3.2
EOQ (8)			489.5	96.6			496.2	514.9	266.4			1890.0	3753.5
Total AP			6626.2	754.0	673.7	702.7	1215.9	1671.5	1705.4	1493.5	1549.7	10368.4	26761.1

\*Funded as CFE verses GFE beginning with the FY01 ship.

Description:

- Nuclear Propulsion Plant Equipment AP** is required to fund long-lead time propulsion plant equipment, which is the longest lead-time equipment required for construction of nuclear attack submarines, and ensure production capability that supports projected production quantities. To support the VIRGINIA Class' innovative and more efficient modular construction method, reactor plant components must be delivered earlier in the construction process than previous submarine classes. Under the new method, the VIRGINIA Class reactor plant will be assembled and tested before being mounted in the hull.
- Electronics Equipment AP** is required to fund the long lead time material for the Command and Control System Module (CCSM). In order to keep the CCSM out of the critical path to ship delivery and minimize the most risk to ship construction, selected electronics will be installed in this module to support construction of the CCSM.
- Propulsor AP** is required to satisfy in-yard need dates for ship delivery.
- Main Propulsion Complex AP** is required to satisfy in-yard need dates for ship delivery and to stabilize the industrial base due to the low number of production units to contain per unit cost. The FY03/SSN778 and follow on hull Main Propulsion Complex (MPC) have been negotiated as CFE in the FY03 Construction Contract.
- Long Lead-Time CFE AP** is required to fund long lead time contractor furnished material including the Weapons Handling Module and the Reactor Plant Module in addition to the MPC beginning with the FY03/SSN778. These components are required early in the construction phase to meet the delivery schedule. This funding schedule reflects the negotiated MYP contract requirement for the FY04-08 hulls, thereby rendering Multi-year savings.
- Advance Construction** was required to ensure industrial base continuity at the shipbuilder in the gap year.
- Other** is for VIRGINIA Class curriculum development.
- EOQ** is for Economic Order Quantity for large lot procurements of shipbuilder material and major Government Furnished Equipment to achieve savings under the MYP contract. This funding schedule reflects the negotiated MYP contract requirement for the FY04-08 hulls, thereby rendering Multi-year savings. Similar contract strategy planned for subsequent ships assuming authorization of multi ship procurement.

Exhibit P-10, Advance Procurement Requirements Analysis (Page 2 - Budget Justification)						FY2008 / FY2009 President's Budget February-07		
Appropriation (Treasury)Code/CC/BA/SBA/Item Control Number 1711 Shipbuilding and Conversion, Navy / BA 02 / BLI 201300					Weapon System VIRGINIA Class Submarines		P-1 Line Item Nomenclature VIRGINIA CLASS	
(TOA, \$ in Millions)			FY08			FY09		
	PLT	QPA	Qty	Contract Forecast Date	Total Cost Request	Qty	Contract Forecast Date	Total Cost Request
BLI: 201300 End Item			1			1		
NUCLEAR PROPULSION PLANT EQUIPMENT (1)	30-72	1 Shipset	1 Shipset	1st Qtr	474.0	1 Shipset	1st Qtr	484.0
ELECTRONICS EQUIPMENT (2)	37-43	1 Shipset	1 Shipset	various	14.4	1 Shipset	various	14.9
PROPULSOR (3)	36	1 Shipset	1 Shipset	various	11.9	1 Shipset	various	12.5
LONG LEAD-TIME CFE (4)	24 - 42	1 Shipset	1 Shipset	various	202.4	1 Shipset	various	208.4
EOQ (5)		various			.	various	various	496.2
Total AP					702.7			1215.9

Description:

- (1) **Nuclear Propulsion Plant Equipment AP** is required to fund long-lead time propulsion plant equipment, which is the longest lead-time equipment required for construction of nuclear attack submarines.
- (2) **Electronics Equipment AP** is required to fund long lead time material for the Command and Control System Module (CCSM). Because the CCSM will be on critical path to ship delivery and present the most risk to ship construction, selected electronics will be installed in this module to support construction of the CCSM.
- (3) **Propulsor AP** is required to satisfy in-yard need dates for ship delivery.
- (4) **Long Lead-Time CFE AP** is required to fund long lead time contractor furnished material including the Weapons Handling Module and the Reactor Plant Module in addition to the MPC beginning with the FY03/SSN778. These components are required early in the construction phase to meet the delivery schedule.
- (5) **Economic Order Quantity** is for Economic Order Quantity for large lot procurements of shipbuilder material and major Government Furnished Equipment to achieve savings under the MYP contract. This funding schedule reflects the planned MYP contract requirement for the FY10-13 hulls, thereby rendering Multi-year savings.

CLASSIFICATION: UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET (P-40)  
 FY 2008/2009 President's Budget Submission (\$M)

DATE: February-07

APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE											
Shipbuilding and Conversion, Navy	BLI - 201700 SSGN CONVERSION											
	PRIOR YEARS	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013		TO COMPLETE	TOTAL PROGRAM
QUANTITY	2											2
End Cost	1250.5											1250.5
Less Advance Procurement	378.2											378.2
Less Subsequent funding	544.0											544.0
Plus Full Funding	261.4	282.6										544.0
Full Funding TOA	589.7	282.6										872.3
Plus Advance Procurement	378.2											378.2
Total Obligational Authority	967.9	282.6										1250.5
Plus Outfitting and Post Delivery	4.7	2.1	7.5	10.5								24.9
Total	972.6	284.7	7.5	10.5								1275.4
Unit Cost (Ave. End Cost)	625.3											625.3

**Note: (1) Budget only includes SSGNs 727 and 729. SSGNs 726 and 728 (FY03 Hulls) delivered December 2005 and April 2006, respectively**

A. MISSION: Covert striking power against targets ashore; the capability to establish covertly an expeditionary force on land. Working both independently and with a battle group/other ships, the OHIO Class SSGN will have the endurance and payload to prepare the battle space and to continue to project maritime power throughout a conflict.

Characteristics:	Production Status:	
Hull	Contract Plans	Conversion contract
Length overall	Award Planned (Month)	Jan-05
Beam	Option Award Planned (Month)	Oct-05
Displacement	Months to Complete	
Draft	a) Award to Delivery	23
	b) Construction Start to Delivery	23
	Commissioning Date	NA
	Completion of	Sep-07
	Fitting-Out	
	OWLD	Aug-08

Armament:	Major Electronics:
Torpedo Tubes	Attack Weapons Control System for Tomahawk
Multiple All-Up Round Canisters for Vertical Launch Tomahawk	AN/WSN-7 Ring Laser Gyro Navigator
DDS and ASDS Host Capability	Common Submarine Radio Room
	Tactical Information Distribution System

DD Form 2454, JUL 88

CLASSIFICATION: UNCLASSIFIED

APPROPRIATION: SHIPBUILDING AND  
CONVERSION, NAVY

WEAPONS SYSTEM COST ANALYSIS (EXHIBIT P-5)

BUDGET ACTIVITY: 2		P-1 ITEM NOMENCLATURE: SSGN				SUBHEAD: H207/H208	
OTHER WARSHIPS		FY 2003		FY 2004		FY 2005	
ELEMENTS OF COST	QTY	TOT COST	QTY	TOT COST	QTY	TOT COST	
PLANS			1	5,030	1	11,626	
BASIC				444,942		576,562	
CHANGE ORDERS				17,656		21,871	
ELECTRONICS				30,362		26,634	
PROPULSION EQUIPMENT				0		0	
ORDNANCE				61,469		52,199	
HM&E				1,178		937	
OTHER				20		20	
TOTAL SHIP ESTIMATE		0		560,657		689,849	
LESS AP FY02				12,910		318	
LESS AP FY03				65,402		17,101	
LESS AP FY04				98,262		136,479	
LESS AP FY05						47,769	
LESS SUB FF FY04							
LESS SUB FF FY05				261,401			
LESS SUB FF FY06						282,613	
PLUS FF FY04							
PLUS FF FY05						261,401	
NET P-1 LINE ITEM		0		122,682		466,970	

Note: (1) Budget only includes SSGNs 727 and 729. SSGNs 726 and 728 (FY03 Hulls) delivered December 2005 and April 2006, respectively

SHIPBUILDING AND CONVERSION, NAVY  
Analysis of Ship Cost Estimate - Basic/Escalation

Ship Type: SSGN

I.	<u>Design Schedule:</u>	Start/Issue	<u>Complete/Response</u>	Reissue Complete/Response
	Issue Date for TLR	MAY 00	SEP 02	
	Issue Date for TLS	JUN 01	DEC 01	
	Preliminary Design	OCT 00	SEP 02	
	Contract Design	N/A	N/A	
	Detail Design	SEP 02	DEC 04	
	Request for Proposals	N/A	N/A	
	Design Agent	Electric Boat		
II.	Classification of Cost Estimate	<b>C</b>		
III.	<u>Basic Construction/Conversion</u>			
	A. Award Date	JAN 05		
	B. Contract Type and Share Line	Cost Plus Incentive Fee		
		20/80 Below Target Cost		
		70/30 - 112% of Target Cost		
		60/40 over 112% of Target Cost		
		min fee 5.1%		
		max fee 17%		
IV.	Escalation	<u>N/A</u>		
	Base Date			
	Escalation Target Date			
	Escalation Termination Date			
	Escalation Requirement (\$K)			
	Labor/Material Split			
	Allowable Overhead Rate			
V.	Other Basic (Reserves/Miscellaneous)			
	Item			
	Item			

SHIPBUILDING AND CONVERSION, NAVY  
SHIP PRODUCTION SCHEDULE

EXHIBIT P-27  
FY 2008/2009 President's Budget Submission  
February-07

SHIP TYPE	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT/PROJECT AWARD		START OF CONSTRUCTION		DELIVERY DATE
			ERO	CONV	ERO	CONV	
SSGN 727	Puget Sound NSY/Electric Boat	2004	Mar-04	Jan-05	Mar-04	Jan-05	Dec-06
SSGN 729	Norfolk Naval Shipyard/ Electric Boat	2005	Mar-05	Oct-05	Mar-05	Oct-05	Sep-07

**Fiscal Year Authorized is based on ERO schedule**

**Contract Award/Start of construction/Delivery Date based on conversion schedule**

**SSGNs 726 and 728 (FY03 Hulls) delivered December 2005 and April 2006, respectively**

SHIPBUILDING AND CONVERSION, NAVY  
Analysis of Ship Cost Estimates - Major Equipment  
(Dollars in Thousands)

Ship Type:	FY 2003		FY 2004		FY 2005	
TRIDENT SSGN CLASS	QTY	TOT COST	QTY	TOT COST	QTY	TOT COST
ELECTRONICS EQUIPMENT						
a. P-35 Items						
1. Common Submarine Radio Room		<u>0</u>	1 Shipset	<u>15,873</u>	1 Shipset	<u>15,659</u>
Subtotal		0		15,873		15,659
b. Major Items						
1. Universal Modular Masts			1 Shipset	3,625	1 Shipset	3,886
2. Tactical Integrated Digital System			1 Shipset	1,142	1 Shipset	2,088
3. AN/WSN-7			1 Shipset	1,626	1 Shipset	1,556
4. Data Processing System			1 Shipset	613	1 Shipset	658
5. OK-542 Handling System			1 Shipset	<u>4,854</u>		<u>0</u>
Subtotal		0		11,860		8,188
c. Other						
1. AN/BQN-17 Secure Fathometer			1 Shipset	710	1 Shipset	710
2. Global Command & Control System			1 Shipset	1,001	1 Shipset	733
3. D5 DD-2 Depth Detector					1 Shipset	291
4. System Integration				405		745
5. Interior Communications/Data Transfer Systems			1 Shipset	75	1 Shipset	90
6. Navy Tactical Command Support Systems			1 Shipset	153	1 Shipset	90
7. Monitoring Sub-system			1 Shipset	<u>285</u>	1 Shipset	<u>128</u>
Subtotal		<u>0</u>		2,629		2,787
TOTAL ELECTRONICS		0		30,362		26,634

Note: Budget only includes SSGNs 727 and 729. SSGNs 726 and 728 (FY03 Hulls) delivered December 2005 and April 2006, respectively

P-35  
 ITEM: **Common Submarine Radio Room (CSRR)**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE

The Common Submarine Radio Room (CSRR) is targeted for all submarine platforms in order to achieve reduced life cycle costs for in-service support, technology upgrades, etc. The CSRR is comprised primarily of common "Big Navy" components procured through various Program Offices (e.g. Digital Modular Radio, Follow-on Terminal), standard submarine antennas (e.g. OE-538, SubHDR), and ancillary components which tie the system together (e.g. workstations, networking components, etc). The majority of the CSRR effort is the integration of these standard components into a cohesive system that meets submarine platform requirements (e.g. footprint, environmental, etc).

II. CURRENT FUNDING:

SHIP: OHIO CLASS SSGN TRIDENT CONVERSION	QTY	FY 2003	QTY	FY2004	QTY	FY2005
MAJOR HARDWARE			1	13,284	1	11,911
TECH ENGINEERING SERVICES				0		0
SPARES				975		925
SYSTEMS ENGINEERING				0		0
OTHER COSTS				<u>1,614</u>		<u>2,823</u>
TOTAL		0		15,873		15,659

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY04	SSGN	VAR	1	\$13,284	VAR/EXISTING
FY05	SSGN	VAR	1	\$11,911	VAR/EXISTING

IV. DELIVERY DATA:

FY	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEAD TIME	REQUIRED AWARD DATE
FY04	SSGN 727	Dec-06	12 MOS	28 MOS	Aug-03
FY05	SSGN 729	Sep-07	12 MOS	28 MOS	May-04

V. COMPETITION/SECOND SOURCE INITIATIVES:

The CSRR is comprised of multiple components which have been developed, under the cognizance of various Program Offices. For the SSGN CSRR, these components will be procured via existing contracts that have been awarded (most, if not all, of which were competitive) by these various Program Offices. It is necessary that the CSRR implement these same components to ensure interoperability. The SSGN CSRR is based on the SSBN CSRR design and hence will leverage much of the efforts funded by the SSBN CSRR program; in order to do this, the same Integration Activity was selected for the SSGN CSRR as is being used for SSBN CSRR.

**Note: Budget only includes SSGNs 727 and 729. SSGNs 726 and 728 (FY03) hulls delivered December 2005 and April 2006, respectively**

SHIPBUILDING AND CONVERSION, NAVY  
Analysis of Ship Cost Estimates - Major Equipment  
(Dollars in Thousands)

Ship Type: TRIDENT SSGN CLASS	FY 2003		FY 2004		FY 2005	
	<u>QTY</u>	<u>TOT COST</u>	<u>QTY</u>	<u>TOT COST</u>	<u>QTY</u>	<u>TOT COST</u>
ORDNANCE						
a. P-35 Items						
1. MAC		0	1 Shipset	29,231	1 Shipset	19,164
2. AWCS		<u>0</u>	1 Shipset	<u>32,238</u>	1 Shipset	<u>33,035</u>
Subtotal		0		61,469		52,199
b. Major Items						
c. Other						
TOTAL ORDNANCE		0		61,469		52,199

**Note: Budget only includes SSGNs 727 and 729. SSGNs 726 and 728 (FY03) hulls delivered December 2005 and April 2006, respectively**

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET

EXHIBIT P-35

FY 2008/2009 President's Budget Submission

Feb-07

P-35  
 ITEM:

Multiple All-Up-Round Canister

I. DESCRIPTION/CHARACTERISTICS/PURPOSE

The Multiple All-Up-Round Canister (MAC) assembly will be designed to structurally support 7 Tomahawk AURs and directly interface with the existing Trident missile tube, the Attack Weapon Control System (AWCS) and the Attack Weapons Support System (AWSS)

II. CURRENT FUNDING:

SHIP: OHIO CLASS SSGN TRIDENT CONVERSION	QTY	FY 2003	QTY	FY04	QTY	FY05
MAJOR HARDWARE			1	26,874	1	16,998
SYSTEMS ENGINEERING				0		0
TECH ENGINEERING SERVICES				0		0
OTHER COSTS				<u>2,357</u>		<u>2,166</u>
TOTAL		0		29,231		19,164

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY04	SSGN 727	NGMS	1 Shipset	26,874	Jan-05
FY05	SSGN 729	NGMS	1 Shipset	16,998	Jun-06

IV. DELIVERY DATA:

FY	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEAD TIME	REQUIRED AWARD DATE
FY04	SSGN 727	Dec-06	6	18	Dec-04
FY05	SSGN 729	Sep-07	6	18	Sep-05

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

**Note: Budget only includes SSGNs 727 and 729. SSGNs 726 and 728 (FY03) hulls delivered December 2005 and April 2006, respectively**

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET

EXHIBIT P-35  
 FY 2008/2009 President's Budget Submission  
 Feb-07

P-35  
 ITEM:

ATTACK WEAPON CONTROL SYSTEM

I. DESCRIPTION/CHARACTERISTICS/PURPOSE

The Attack Weapon Control System (AWCS) supports the Tomahawk mission and the missile tube interfaces that support SOF missions. For Tomahawk missions, the AWCS provides resources for receiving and processing mission data and controlling the launch sequence of the Tomahawk missiles. The AWCS assembles the mission information and enables the operators to coordinate and process the mission data. When a missile launch is ordered, the AWCS provides the operators the resources to prepare the overwater missile engagement plan that joins the overland mission, select and initialize missiles and control their launch sequence process.

II. CURRENT FUNDING:

SHIP: OHIO CLASS SSGN TRIDENT CONVERSION	QTY	FY 2003	QTY	FY04	QTY	FY05
MAJOR HARDWARE			1	22,744	1	23,244
SYSTEMS ENGINEERING				9,474		9,791
TECH ENGINEERING SERVICES				0		0
OTHER COSTS				<u>20</u>		<u>0</u>
TOTAL		0		32,238		33,035

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY04	SSGN 727	GD-AIS	1 Shipset	22,744	Nov-03
FY05	SSGN 729	GD-AIS	1 Shipset	23,244	Nov-03

IV. DELIVERY DATA:

FY	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEAD TIME	REQUIRED AWARD DATE
FY04	SSGN 727	Dec-06	12	24	Dec-03
FY05	SSGN 729	Sep-07	12	24	Sep-04

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

**Note: Budget only includes SSGNs 727 and 729. SSGNs 726 and 728 (FY03) hulls delivered December 2005 and April 2006, respectively**

CLASSIFICATION: UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET (P-40) FY 2008/FY 2009 PRESIDENT'S BUDGET	DATE: FEBRUARY 2007
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APPROPRIATION/BUDGET ACTIVITY BA #2 OTHER WARSHIPS/BLI 208600/SUBHEAD 6212 (Dollars in Millions)	P-1 ITEM NOMENCLATURE CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)										
	PRIOR YR	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TO COMP	TOTAL PROG
QUANTITY	2	1	0	0	0	1	0	0	1	1	6
End Cost	4,962.8	3,112.3	0.0	0.0	0.0	3,817.3	0.0	0.0	4,327.7	5,887.8	22,107.9
Less Advance Procurement	2,029.5	861.3	0.0	0.0	0.0	915.3	0.0	0.0	1,038.7	625.9	5,470.7
Less Transfer	63.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.1
Less Subsequent Year FF	1,252.7	950.5	0.0	0.0	0.0	1,305.8	0.0	0.0	1,656.0	0.0	5,165.0
Plus FY2001 Prior Year Ships	65.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.0
Plus Subsequent Year FF	0.0	0.0	950.5	0.0	0.0	0.0	1,305.8	0.0	0.0	1,656.0	3,912.3
Full Funding TOA	1,682.5	1,300.6	950.5	0.0	0.0	1,596.2	1,305.8	0.0	1,633.0	5,262.0	13,730.6
Plus Advance Procurement	2,029.5	19.7	116.6	297.3	503.5	127.7	365.6	689.9	370.3	625.9	5,146.0
Total Obligational Authority	3,712.0	1,320.3	1,067.1	297.3	503.5	1,723.9	1,671.4	689.9	2,003.3	5,887.9	18,876.6
Plus Outfitting / Post Delivery	124.0	12.7	16.9	26.7	45.3	16.5	19.0	26.9	61.9	194.7	544.6
Total	3,836.0	1,333.0	1,084.0	324.0	548.8	1,740.4	1,690.4	716.8	2,065.2	6,082.5	19,421.2
Unit Cost (Ave. End Cost)	2,481.4	3,112.3	0.0	0.0	0.0	3,817.3	0.0	0.0	0.0	5,887.8	3,684.7

**MISSION:**  
To support and operate aircraft to engage in attacks on targets afloat and ashore which threaten our use of the sea and to engage in sustained operations in support of other forces. The refueling of the reactors and repair and upgrading the main propulsion equipments will provide for reliable operations during its remaining 23 plus years of ship life using only the normal maintenance cycle.

<u>Characteristics:</u>	<u>Production Status</u>	<u>FY 06</u>
<u>Hull</u>	Contract Plans	05/01
Length overall	Award Planned (Month)	11/05
Beam	Months to Complete	
Displacement	a) Award to Delivery	40
Draft	b) Construction Start to Delivery	40
	Commissioning Date	N/A
	Completion of Fitting Out	05/09
 <u>Armament:</u>	 <u>Major Electronics:</u>	
<u>CVN 70:</u>	Cooperative Engagement Capability	
MK49 GMLS w/HAS	C4ISR	
AN/SPQ-9B Radar	Integrated Combat Direction System	
Tactical Support Center	Naval Warfare Strike Planning Center (NSWPC)	
	Cooperative Engagement Capability	
	C4ISR	
	Ship Self Defense System MK2	
	Naval Warfare Strike Planning Center (NSWPC)	

UNCLASSIFIED

P-5  
FY 2008/FY 2009 PRESIDENT'S BUDGET  
FEBRUARY 2007

APPROPRIATION: SHIPBUILDING AND  
CONVERSION, NAVY

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)  
(Dollars in Thousands)

SUBHEAD 6212

BUDGET ACTIVITY: 2  
OTHER WARSHIPS

P-1 ITEM NOMENCLATURE: CVN-68 CLASS  
NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)  
AIRCRAFT CARRIERS

ELEMENT OF COST	QTY	FY2006 CVN 70 TOTAL COST
PLAN COSTS		44,560
BASIC CONST/CONVERSION		2,600,411
OTHER COST		83,843
PROPULSION EQUIPMENT		96,203
HM&E		41,052
ELECTRONICS		181,436
ORDNANCE		64,800
TOTAL SHIP ESTIMATE	1	3,112,305
LESS:		
FY01 ADVANCE PROCUREMENT		24,770
FY02 ADVANCE PROCUREMENT		73,349
FY03 ADVANCE PROCUREMENT		217,271
FY04 ADVANCE PROCUREMENT		214,403
FY05 ADVANCE PROCUREMENT		331,460
LESS:		
FY07 SUBSEQUENT YEAR FULL FUNDING		950,466
NET P-1 LINE ITEM:		1,300,586

UNCLASSIFIED  
CLASSIFICATION

P-27  
FY 2008/FY 2009 PRESIDENT'S BUDGET  
FEBRUARY 2007

**SHIPBUILDING AND CONVERSION, NAVY  
SHIP PRODUCTION SCHEDULE**

SHIP TYPE	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
CVN 70 RCOH	NGNN	FY 2006	Nov-05	Nov-05	Mar 09
CVN 71 RCOH	NGNN	FY 2010	Nov-09	Nov-09	Nov 12
CVN 72 RCOH	NGNN	FY 2013	Feb-13	Feb-13	Feb 16

UNCLASSIFIED  
CLASSIFICATION

P-8A  
FY 2008/FY 2009 PRESIDENT'S BUDGET  
FEBRUARY 2007

**SHIPBUILDING AND CONVERSION, NAVY**  
**Analysis of Ship Cost Estimates - Major Equipment**  
(Dollars in Thousands)

**Ship Type:** CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)

<b>OTHER</b>		Qty (1) FY 06 <u>TOTAL COST</u>
<b>a. P-35 Items</b>		-
<b>b. Major Items:</b>		
1 Berthing		42,483
2 Engineering Support		11,897
3 ILS Support		12,798
4 Management Support		16,665
	<b>Subtotal</b>	<u><u>83,843</u></u>
<b>c. Miscellaneous Other Support</b>		-
	<b>TOTAL OTHER</b>	83,843



UNCLASSIFIED  
CLASSIFICATION

P-8A  
FY 2008/FY 2009 PRESIDENT'S BUDGET  
FEBRUARY 2007

**SHIPBUILDING AND CONVERSION, NAVY**  
**Analysis of Ship Cost Estimates - Major Equipment**  
(Dollars in Thousands)

**Ship Type:** CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)

		Qty (1)
		FY 06
<b>ELECTRICAL</b>		<u>TOTAL COST</u>
<b>a. P-35 Items</b>		
1	C4ISR	56,990
2	Integrated Communication and Audio Network (ICAN)	38,234
3	SSDS MK2 (Formerly ICDS)	36,658
4	Naval Strike Warfare Planning Center (NSWPC - Formerly CVIC)	22,121
5	Cooperative Engagement Capability (CEC - AN/USG-2)	6,916
6	IFF Interrogator Set (AN/UPX-29)	5,129
7	HYDRA	4,475
8	AN/SPN46 Overhaul/Upgrade	3,626
	<b>Subtotal</b>	<u>174,149</u>
<b>b. Major Items:</b>		
1	AN/TPX-42 (V)14 Upgrade	1,604
	<b>Subtotal</b>	<u>1,604</u>
<b>c. Miscellaneous Electronics</b>		5,683
	<b>TOTAL ELECTRONICS</b>	181,436

UNCLASSIFIED  
CLASSIFICATION

P-8A  
FY 2008/FY 2009 PRESIDENT'S BUDGET  
FEBRUARY 2007

**SHIPBUILDING AND CONVERSION, NAVY**  
**Analysis of Ship Cost Estimates - Major Equipment**  
(Dollars in Thousands)

**Ship Type:** CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)

**ORDNANCE**

Qty (1)  
FY 06  
TOTAL COST

**a. P-35 Items**

1	Aviation Equipment & Support	21,800
2	Tactical Support Center (CV-TSC)	10,113
3	MK49 GLMS w/HAS (formerly RAM)	9,753
4	AN/SPQ-9B Radar	7,988
5	AN/SPS-49(V)5 Upgrade/Repair	5,475
6	Advanced Sensor Distribution System (ASDS)	3,234

**Subtotal** 58,363

**b. Major Items:**

1	AN/SPS-48E Radar Set Upgrades	2,386
2	Integrated Warfare Commander's Cell (IWCC)	1,105

**Subtotal** 3,491

**c. Miscellaneous Ordnance**

2,946

**TOTAL ORDNANCE** 64,800

**SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT SHEET**  
 (Dollars in Thousands)

**Ship Type:** CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)  
**Equipment Item:** JP-5 Electric Valve Operator Assemblies  
**PARM Code:** NSWC Carderock

**I. DESCRIPTION / CHARACTERISTICS / PURPOSE:**

JP-5 manifold actuators that distribute and control the flow of aircraft fuel to the JP-5 fueling stations.

**II. CURRENT FUNDING:**

<u>P-35 Category</u>	<u>FY 2006</u>
Major Hardware	3,937
Spares	55
Engr/ILS/Mgmt Spt	50
Technical Support Services	807
Schedule B Services	<u>150</u>
TOTAL	4,999

**III. CONTRACT DATA:**

<u>PROGRAM</u>	<u>PRIME</u>	<u>AWARD</u>	<u>CONTRACT</u>	<u>NEW /</u>	<u>QTY</u>	<u>HARDWARE</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>DATE</u>	<u>TYPE</u>	<u>OPTION</u>		<u>UNIT COST</u>
FY 06	Target Rock	Mar 05	FFP	Option	1 Shipset	3,937

**IV. DELIVERY DATE:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
Mar-09	40	8	Mar-05

**V. Competition/Second Source Initiatives**

None

Note:

**SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT SHEET**  
 (Dollars in Thousands)

**Ship Type:** CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)  
**Equipment Item:** Convert R114 AC Plants  
**PARM Code:** NAVSEA 05M42

**I. DESCRIPTION / CHARACTERISTICS / PURPOSE:**

Kits to convert 363-ton CFC-114, single stage centrifugal compressor chilled water air conditioning plant to operate with ozone-friendly refrigerant HFC-236a.

**II. CURRENT FUNDING:**

<u>P-35 Category</u>	<u>FY 2006</u>
Major Hardware	3,592
Spares	173
Engr/ILS/Mgmt Spt	0
Technical Engineering Services	<u>626</u>
TOTAL	4,391

**III. CONTRACT DATA:**

<u>PROGRAM</u>	<u>PRIME</u>	<u>CONTRACT</u>	<u>CONTRACT</u>	<u>NEW /</u>	<u>QTY</u>	<u>HARDWARE</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>AWARD DATE</u>	<u>TYPE</u>	<u>OPTION</u>		<u>UNIT COST</u>
FY 06	York International	Feb-03	FFP	Option	10	359

**IV. DELIVERY DATA:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>
Mar-09	38	14	Nov-04

**V. COMPETITION/SECOND SOURCE INITIATIVES:**

None

Note: The kits are procured on a sole source basis. There are no other manufacturers that can produce the kits without certain engineering drawings which are proprietary to York.

**SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT SHEET**  
 (Dollars in Thousands)

**Ship Type:** CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)  
**Equipment Item:** O2N2 (Oxygen and Nitrogen) System  
**PARM Code:** NSWC Carderock (SSES)

**I. DESCRIPTION / CHARACTERISTICS / PURPOSE:**

Replace one Cryogenic O2N2 plant with Gaseous Membrane Nitrogen Generator & Vacuum Swing Adsorber O2 generator

**II. CURRENT FUNDING:**

<u>P-35 Category</u>	<u>FY 2006</u>
Major Hardware	1,850
Spares	300
Engr/ILS/Mgmt Spt	443
Technical Support Services	<u>1,707</u>
TOTAL	4,300

**III. CONTRACT DATA:**

<u>PROGRAM</u>	<u>PRIME</u>	<u>AWARD</u>	<u>CONTRACT</u>	<u>NEW /</u>		<u>HARDWARE</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>DATE</u>	<u>TYPE</u>	<u>OPTION</u>	<u>QTY</u>	<u>UNIT COST</u>
FY 06	Pacific Consolidated Sys	Mar-05	FFP	NEW	1 Shipset	1,850

**IV. DELIVERY DATE:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
Mar-09	27	18	Jun-05

**V. Competition/Second Source Initiatives**

None

Note:

**SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT SHEET**  
 (Dollars in Thousands)

**Ship Type:** CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)  
**Equipment Item:** C4ISR  
**PARM Code:** SPAWAR 05F

**I. DESCRIPTION / CHARACTERISTICS / PURPOSE:**

Provides an integrated communications infrastructure to support both tactical and non-tactical applications in all warfare and support areas, an improved shipboard RF distribution system and multiband antennas, and capabilities for the control and monitoring of RF assets introducing network automation and provide interoperable communications for joint operations. It will interconnect forces of the Battle Group (BG) / Amphibious Readiness Group (ARG) and connects the BG/ARG with expeditionary forces and the Commander-in-Chief Command Complex (CCC) ashore crossing all available media including Ultra High Frequency (UHF), Super High Frequency (SHF), Extremely High Frequency (EHF), commercial satellite links, and new medium-to-high data rate HF and UHF line of sight (LOS) links. C4ISR includes RCS, weather, navigational, signal exploitation, and command and control equipments.

**II. CURRENT FUNDING:**

<u>P-35 Category</u>	<u>FY 2006</u>
Major Hardware	18,608
Spares	961
Engineering Spt, Mgmt Spt, ILS	<u>37,421</u>
TOTAL	56,990

**III. CONTRACT DATA:**

<u>PROGRAM</u>	<u>PRIME</u>	<u>AWARD</u>	<u>CONTRACT</u>	<u>NEW /</u>	<u>QTY</u>	<u>HARDWARE</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>DATE</u>	<u>TYPE</u>	<u>OPTION</u>		<u>UNIT COST</u>
FY 06	Various	Various	Various	Various	1 Shipset	Various

**IV. DELIVERY DATE:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
Mar-09	Various	Various	Various

**V. Competition/Second Source Initiatives**  
 None

**SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT SHEET**  
 (Dollars in Thousands)

**Ship Type:** CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)  
**Equipment Item:** Integrated Communication and Audio Network (ICAN)  
**PARM Code:** NAVSEA 05Z5, NAVSEA 062R6

**I. DESCRIPTION / CHARACTERISTICS / PURPOSE:**

The **ICAN** (Integrated Communication and Audio Network) System consisting of 4 subsystems under the ICAN Header: IVN (Integrated Voice Network), MCMS (Machinery Control Monitoring System), Navigation Critical Distribution System (NAVCRIT) Network, and Announcing Systems.  
**IVN:** An Integrated Communications System that provides the ship's Internal Command and Control Communications. In addition, IVN provides connectivity to other onboard systems such as Announcing Systems, Sound Powered Circuits, Secure / NonSecure off-ship Communications, SATCC and HYDRA.  
**MCMS:** Machinery Control Monitoring System: Control and monitoring of approximately 3500 machinery signals for various HM&E auxiliary systems (e.g. JP5, firemain, IC/SM panels) for aircraft carriers. Utilizes the Machinery Control Network for signals.  
**Machinery Control Network:** The core network that provides communication services and transport for the MCMS system and part of the backbone that rides over the FOCP. It consists of five network switches, associated racks, and cabling.  
**FOCP:** Fiber Optic Cable Plant is an integrated optical fiber distribution system that provides fiber interconnections.  
**NAVCRIT Network:** The Navigation Critical Distribution System is a switched network providing communication services and transport for the NAV Standard Message, which is originated in the NAVSSI (Naval Sensor System Interface) system. The NAVCRIT Distribution consists of three backbone switches and eight I/O controllers to convert digital NAV data for analog outputs. It will use the FOCP to the maximum extent for connectivity.  
**SCS:** Ship Control System provides control and display of rudder position, Engine and Propeller Order Telegraph functions. The SCS provides data for heading, speed, and rudder angles through NAVCRIT Network from NAVSSI. The SCS interfaces to an Electronic Chart Display Information System.

**II. CURRENT FUNDING:**

<u>P-35 Category</u>	<u>FY 2006</u>
Major Hardware	17,866
Spares	0
Eng / ILS / Mgmt Spt	4,772
Technical Engineering Services	<u>15,596</u>
TOTAL	38,234

**III. CONTRACT DATA:**

<u>PROGRAM</u>	<u>PRIME</u>	<u>CONTRACT</u>	<u>CONTRACT</u>	<u>NEW /</u>		<u>HARDWARE</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>AWARD DATE</u>	<u>TYPE</u>	<u>OPTION</u>	<u>QTY</u>	<u>UNIT COST</u>
FY 06	Various	Various	FFP	New	1 Shipset	17,866

**IV. DELIVERY DATA:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>
Mar-09	27	18	Jun-05

**V. COMPETITION/SECOND SOURCE INITIATIVES:**

None

**SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT SHEET**  
 (Dollars in Thousands)

**Ship Type:** CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)  
**Equipment Item:** Ship Self Defense System (MK2) (Previously ICDS)  
**PARM Code:** PEO IWS - 1A1C

**I. DESCRIPTION / CHARACTERISTICS / PURPOSE:**

SSDS MK2 provides primary support for force/ownship combat systems control and enhanced self-defense capabilities. The SSDS MK2 integrates sensors, weapons systems, data links, and command and control elements into a unified combat system.

**II. CURRENT FUNDING:**

<u>P-35 Category</u>	<u>FY 2006</u>
Major Hardware	12,054
Spares	1,269
Eng/ILS/Config Mgmt Support	440
Technical Services	<u>22,895</u>
TOTAL	36,658

**III. CONTRACT DATA**

<u>PROGRAM</u>	<u>PRIME</u>	<u>AWARD</u>	<u>CONTRACT</u>	<u>NEW /</u>	<u>QTY</u>	<u>HARDWARE</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>DATE</u>	<u>TYPE</u>	<u>OPTION</u>		<u>UNIT COST</u>
FY 06	Raytheon/Lockheed Martin	Jan-04	CPAF/FFP	Option	1	12,054

**IV. DELIVERY DATA:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
Mar-09	24	14	Jan-06

**V. Competition/Second Source Initiatives**

None

**SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT SHEET**  
 (Dollars in Thousands)

**Ship Type:** CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)  
**Equipment Item:** Naval Strike Warfare Planning Center (NSWPC/CVIC)  
**PARM Code:** NAVAIR PMA 281

**I. DESCRIPTION / CHARACTERISTICS / PURPOSE:**

The NSWPC improves Carrier Air Wing capability for mission planning, targeting and rehearsal using the next generation of Precision Guided Munitions (PGMs) by integrating mission planning, imagery processing and targeting systems within the Carrier Intelligence Center (CVIC).

**II. CURRENT FUNDING:**

<u>P-35 Category</u>	<u>FY 2006</u>
Major Hardware	6,964
Spares	0
Engineering, ILS, Mgmt Spt	<u>15,157</u>
TOTAL	<u>22,121</u>

**III. CONTRACT DATA:**

<u>PROGRAM</u>	<u>PRIME</u>	<u>AWARD</u>	<u>CONTRACT</u>	<u>NEW /</u>	<u>HARDWARE</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>DATE</u>	<u>TYPE</u>	<u>OPTION</u>	<u>UNIT COST</u>
FY 06	Various	Various	FFP	Option	6,964

**IV. DELIVERY DATE:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
Mar-09	20	18	Jan-06

**V. Competition/Second Source Initiatives**

None

**SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT SHEET**  
 (Dollars in Thousands)

**Ship Type:** CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)  
**Equipment Item:** Cooperative Engagement Capability (CEC)  
**PARM Code:** PEO IWS - 6NA

**I. DESCRIPTION / CHARACTERISTICS / PURPOSE:**

Significantly improve Battle Force Anti-Air Warfare (AAW) capability by coordinating all force AAW sensors into a single real time, fire control quality composite track picture. CEC will distribute sensor measurement data from each Cooperating Unit (CU) to all other CUs. Each CU consists of a Data Distribution System (DDS) and a Cooperative Engagement Processor (CEP). The DDS encodes and distributes ownship sensor and engagement data to other CUs, and receives and decodes the remotes data. The CEP processes ownship data and DDS supplied remote sensor and weapon data needed to provide the common air picture.

**II. CURRENT FUNDING:**

<u>P-35 Category</u>	<b><u>FY 2006</u></b>
Major Hardware	5,571
Spares	294
Management Spt	184
Engineering Services	<u>867</u>
TOTAL	6,916

**III. CONTRACT DATA:**

<u>PROGRAM</u>	<u>PRIME</u>	<u>AWARD</u>	<u>CONTRACT</u>	<u>NEW /</u>		<u>HARDWARE</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>DATE</u>	<u>TYPE</u>	<u>OPTION</u>	<u>QTY</u>	<u>UNIT COST</u>
FY 06	Raytheon	Dec 03	CPIF	New	1	5,571

**IV. DELIVERY DATA:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
Mar-09	25	18	Aug-05

**V. COMPETITION/SECOND SOURCE INITIATIVE:**

None

**SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT SHEET**  
 (Dollars in Thousands)

**Ship Type:** CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)  
**Equipment Item:** MK 12 IFF (Identification Friend or Foe)  
**PARM Code:** NAVAIR PMA 2133

**I. DESCRIPTION / CHARACTERISTICS / PURPOSE:**

The Interrogator System AN/UPX-29(V) is deployed on high capability, state of the art platforms that require Identification Friend or Foe (IFF) operational performance beyond that provided by a standard MK XII system for combat identification. The transponder set receives interrogation signals from air, surface and land IFF-equipped units and automatically replies with a coded response signal that provides ownship position and identification.

**II. CURRENT FUNDING:**

<u>P-35 Category</u>	<u>FY 2006</u>
Major Hardware	3,761
Spares	84
Eng/ILS/Config Mgmt/Spt Svcs	459
Technical Support Services	<u>825</u>
TOTAL	5,129

**III. CONTRACT DATA:**

<u>PROGRAM</u>	<u>PRIME</u>	<u>AWARD</u>	<u>CONTRACT</u>	<u>NEW /</u>	<u>HARDWARE</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>DATE</u>	<u>TYPE</u>	<u>OPTION</u>	<u>UNIT COST</u>
FY 06	Litton & BAE	Jul/Sept 03	FFP	New Contracts	3,761
					<u>QTY</u>
					1

**IV. DELIVERY DATE:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
Mar-09	26	22	Mar-05

**V. COMPETITION/SECOND SOURCE INITIATIVE**

None

**SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT SHEET**  
 (Dollars in Thousands)

**Ship Type:** CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)  
**Equipment Item:** HYDRA  
**PARM Code:** NAVSEA 62R6

**I. DESCRIPTION / CHARACTERISTICS / PURPOSE:**

Hierarchical Yet Dynamically Reprogrammable Architecture (HYDRA): internal communications system that provides portable radio communications for flight deck and below deck operations. It will operate in the 380-399.9 MHz "trunking" spectrum recently apportioned for military use.

**II. CURRENT FUNDING:**

<u>P-35 Category</u>	<u>FY 2006</u>
Major Hardware	3,168
Spares	50
Engr/ILS/Mgmt Spt	<u>1,257</u>
TOTAL	4,475

**III. CONTRACT DATA:**

<u>PROGRAM</u>	<u>PRIME</u>	<u>CONTRACT</u>	<u>CONTRACT</u>	<u>NEW /</u>	<u>HARDWARE</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>AWARD DATE</u>	<u>TYPE</u>	<u>OPTION</u>	<u>UNIT COST</u>
FY 06	M/A-Com	Mar-05	FFP	Option	3,168
					<u>QTY</u>
					1

**IV. DELIVERY DATA:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>
Mar-09	40	6	May-05

**V. COMPETITION/SECOND SOURCE INITIATIVES:**

None

**SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT SHEET**  
 (Dollars in Thousands)

**Ship Type:** CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)  
**Equipment Item:** Automated Carrier Landing Systems (ACLS) (AN/SPN-46(V)5)  
**PARM Code:** NAVAIR PMA 2131

**I. DESCRIPTION / CHARACTERISTICS / PURPOSE:**

Precision approach landing system used for non-clear weather aircraft landings on carriers. Provides electronic guidance to aircraft and allows them to land in all weather conditions with no limitations due to low ceiling or visibility.

**II. CURRENT FUNDING:**

<u>P-35 Category</u>	<u>FY 2006</u>
Major Hardware	1,945
Spares	0
Technical Engineering Services	1,681
TOTAL	<u>3,626</u>

**III. CONTRACT DATA:**

<u>PROGRAM</u>	<u>PRIME</u>	<u>AWARD</u>	<u>CONTRACT</u>	<u>NEW /</u>	<u>HARDWARE</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>DATE</u>	<u>TYPE</u>	<u>OPTION</u>	<u>UNIT COST</u>
FY06	NAWCAD	Oct-05	PO	N/A	1,945
					1

**IV. DELIVERY DATA:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
Mar-09	19	9	Nov-06

**V. COMPETITION/SECOND SOURCE INITIATIVE:**

None

**SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT SHEET**  
 (Dollars in Thousands)

**Ship Type:** CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)  
**Equipment Item:** NAVAIR Equipment and Support  
**PARM Code:** NAVAIR PMA 251

**I. DESCRIPTION / CHARACTERISTICS / PURPOSE:**

Provides procurement and engineering support for launch and recovery equipment, ISIS/ADMACS, Moriah, ILARTS, mission pods, jet blast deflectors, MAPA-C, crosscheck, aviation maintenance facility, weapons compatibility, aircraft spotting, aviation servicing facilities, visual, and marking and lighting.

**II. CURRENT FUNDING:**

P-35 Category	<u>FY 2006</u>
Major Hardware & Spares	11,852
Engineering Spt/Integration	<u>9,948</u>
TOTAL	21,800

**III. CONTRACT DATA:**

<u>PROGRAM</u>	<u>PRIME</u>	<u>AWARD</u>	<u>CONTRACT</u>	<u>NEW /</u>	<u>QTY</u>	<u>HARDWARE</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>DATE</u>	<u>TYPE</u>	<u>OPTION</u>		<u>UNIT COST</u>
FY06	Various	Various	Various	Various	1	Various

**IV. DELIVERY DATE:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
Mar-09	Various	Various	Various

**V. COMPETITION/SECOND SOURCE INITIATIVE**

None

**SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT SHEET**  
 (Dollars in Thousands)

**Ship Type:** CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)  
**Equipment Item:** Aircraft Carrier Based Tactical Support Center (CV-TSC)  
**PARM Code:** PEO IWS - 5B

**I. DESCRIPTION / CHARACTERISTICS / PURPOSE:**

CV-TSC is the primary source of Undersea Warfare data gathered from organic and non-organic sources. CV-TSC supports mission planning, in-flight data exchange, pre-mission briefing, real time analysis, post-mission data analysis and mission reconstruction/evaluation of undersea warfare data for tactical support to the operational chain of command.

**II. CURRENT FUNDING:**

<u>P-35 Category</u>	<u>FY 2006</u>
Major Hardware & Spares	2,180
Spares	150
Engineering spt	<u>7,783</u>
TOTAL	10,113

**III. CONTRACT DATA:**

<u>PROGRAM</u>	<u>PRIME</u>	<u>AWARD</u>	<u>CONTRACT</u>	<u>NEW CONTRACT/</u>	<u>HARDWARE</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>DATE</u>	<u>TYPE</u>	<u>OPTION</u>	<u>UNIT COST</u>
FY 06	NUWC Keyport	Oct-04	CPFF	New	2,180
					<u>QTY</u>
					1

**IV. DELIVERY DATE:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
Mar-09	22	18	Nov-05

**V. Competition/Second Source Initiatives**  
 None

**SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT SHEET**  
 (Dollars in Thousands)

**Ship Type:** CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)  
**Equipment Item:** Rolling Airframe Missile (RAM) - MK49 GMLS w/ HAS  
**PARM Code:** PEO IWS - 3B

**I. DESCRIPTION / CHARACTERISTICS / PURPOSE:**

The RAM Guided Missile Weapon System is a lightweight, short-range, quick-reaction, high firepower missile weapon system designed to engage and destroy incoming anti-ship cruise missiles that use active radar guidance.

**II. CURRENT FUNDING:**

<u>P-35 Category</u>	<u>FY 2006</u>
Major Hardware	3,605
Spares	201
Management Support	337
Engineering Support	<u>5,610</u>
TOTAL	9,753

**III. CONTRACT DATA:**

<u>PROGRAM</u>	<u>PRIME</u>	<u>AWARD</u>	<u>CONTRACT</u>	<u>NEW /</u>	<u>QTY</u>	<u>HARDWARE</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>DATE</u>	<u>TYPE</u>	<u>OPTION</u>		<u>UNIT COST</u>
FY 06	Raytheon	Nov 03	FFP	New	2	1,803

**IV. DELIVERY DATE:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
Mar-09	17	24	Oct-05

**V. Competition/Second Source Initiatives**  
 None

**SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT SHEET**  
 (Dollars in Thousands)

**Ship Type:** CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)  
**Equipment Item:** AN/SPQ-9B Radar Set  
**PARM Code:** PEO IWS - 2R1

**I. DESCRIPTION / CHARACTERISTICS / PURPOSE:**

The AN/SPQ-9B is a high resolution X-band narrow beam radar that provides both air and surface tracking information to standard plan position indicator (PPI) consoles.

**II. CURRENT FUNDING:**

<u>P-35 Category</u>	<u>FY 2006</u>
Major Hardware	6,040
Spares	421
Eng/ILS/Config Mgmt Support	922
Technical Services	<u>605</u>
TOTAL	7,988

**III. CONTRACT DATA:**

<u>PROGRAM</u>	<u>PRIME</u>	<u>AWARD</u>	<u>CONTRACT</u>	<u>NEW /</u>		<u>HARDWARE</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>DATE</u>	<u>TYPE</u>	<u>OPTION</u>	<u>QTY</u>	<u>UNIT COST</u>
FY 06	Northrop Grumman/Norden	Apr 04	CPFF	New	1	6,040

**IV. DELIVERY DATE:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
Mar-09	21	24	Jun-05

**V. Competition/Second Source Initiatives**  
 None

**SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT SHEET**  
 (Dollars in Thousands)

**Ship Type:** CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)  
**Equipment Item:** AN/SPS-49(V)5 Field Change 5  
**PARM Code:** PEO IWS 2.RI

**I. DESCRIPTION / CHARACTERISTICS / PURPOSE:**

The AN/SPS-49 Radar is a narrow beam, very long range, two dimensional air search radar. This is the primary air search radar for the ship. The AN/SPS-49 offers greatly improved operational performance (range, bearing, and altitude), reliability, and maintainability.

**II. CURRENT FUNDING:**

<u>P-35 Category</u>	<u>FY 2006</u>
Major Hardware	3,700
Spares	0
Eng/ILS/Config Mgmt Support	1,185
Technical Services	<u>590</u>
TOTAL	5,475

**III. CONTRACT DATA:**

<u>PROGRAM</u>	<u>PRIME</u>	<u>AWARD</u>	<u>CONTRACT</u>	<u>NEW /</u>	<u>HARDWARE</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>DATE</u>	<u>TYPE</u>	<u>OPTION</u>	<u>UNIT COST</u>
FY 06	Raytheon	Dec 02	FFP	New	3,700

**IV. DELIVERY DATE:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
Mar-09	22	24	May-05

**V. COMPETITION/SECOND SOURCE INITIATIVE**

None

**SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT SHEET**  
 (Dollars in Thousands)

**Ship Type:** CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)  
**Equipment Item:** AN/SPQ-14 ASDS (Advanced Sensor Distribution System)  
**PARM Code:** PEO IWS 2.RI

**I. DESCRIPTION / CHARACTERISTICS / PURPOSE:**

Advanced Sensor Distribution System - Interfaces RADAR and NAV Sensors signals, converts & distributes digitally.

**II. CURRENT FUNDING:**

<u>P-35 Category</u>	<u>FY 2006</u>
Major Hardware	1,078
Spares	15
Eng/ILS/Config Mgmt Support	129
Technical Services	<u>2,012</u>
TOTAL	3,234

**III. CONTRACT DATA:**

<u>PROGRAM</u>	<u>PRIME</u>	<u>AWARD</u>	<u>CONTRACT</u>	<u>NEW /</u>		<u>HARDWARE</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>DATE</u>	<u>TYPE</u>	<u>OPTION</u>	<u>QTY</u>	<u>UNIT COST</u>
FY 06	Frontier Electronic Sys.	Jan 03	IDIQ	New	1	1,078

**IV. DELIVERY DATE:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
Mar-09	24	12	Mar-06

**V. COMPETITION/SECOND SOURCE INITIATIVE**

None

Exhibit P-10, Advance Procurement Requirements Analysis (Page 1 - Funding)							Date: <b>FEBRUARY 2007</b>					
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number <b>BA #2 OTHER WARSHIPS</b>							P-1 Line Item Nomenclature <b>CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)</b>					
Weapon System <b>BLI: 208600 CVN 71 RCOH</b>				First System (BY3) Award Date <b>Nov 09</b>			First System (BY6) Completion Date <b>Nov 12</b>					
(\$ in Millions)												
	PLT	When Req'd	Prior Years	CY FY07	BY1 FY08	BY2 FY09	BY3 FY10	BY4 FY11	BY5 FY12	BY6 FY13	To Complete	Total
End Item Qty												
Plans (Detailed)			5.0	9.5	10.0	14.5						39.0
Basic				70.6	203.3	331.2						605.1
Other			2.7	3.8	6.4	11.5						24.4
Nuc Prop Equipment			12.0	32.2	7.9	42.6						94.7
HM&E				0.0	6.0	10.6						16.6
Electronics				0.6	33.7	49.2						83.5
Ordnance				0.1	30.0	22.5						52.6
Total AP			19.7	116.6	297.3	482.1						915.7
<p>Description:</p> <p>Funding in FY 2006 thru FY 2009 is required to procure long lead items and fund long lead efforts critical to supporting an FY 2010 contract award. Efforts will include work package planning, integration, shipchecks, drawings, GFE engineering and hardware procurements. The advance planning contracts with NGNN are funded under Basic in each fiscal year.</p> <p>CVN 71 AP begins in FY06 and ends in FY09</p>												

Exhibit P-10, Advance Procurement Requirements Analysis (Page 2 - Budget Justification)							Date: <b>FEBRUARY 2007</b>		
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number <b>BA #2 OTHER WARSHIPS</b>					Weapon System <b>CVN 71 RCOH</b>		P-1 Line Item Nomenclature <b>CVN-68 Class RCOH</b>		
(TOA, \$ in Millions)									
	PLT	QPA	Unit Cost	FY08 Qty	FY08 Contract Forecast Date	FY08 Total Cost Request	FY09 Qty	FY09 Contract Forecast Date	FY09 Total Cost Request
End Item									
Plans (Detailed)	various	Note 1			October 2007	10.0		October 2008	14.5
Basic	various	Note 1			October 2007	203.3		October 2008	331.2
Other	various	Note 1			October 2007	6.4		October 2008	11.5
Nuc Prop Equip	various	Note 1			October 2007	7.9		October 2008	42.6
HM&E	various	Note 1			October 2007	6.0		October 2008	10.6
Electronics	various	Note 1			October 2007	33.7		October 2008	49.2
Ordnance	various	Note 1			October 2007	30.0		October 2008	22.5
Total AP						297.3			482.1
Note 1: QPA is one shipset									
CVN 71 AP begins in FY06 and ends in FY09									

Exhibit P-10, Advance Procurement Requirements Analysis (Page 1 - Funding)							Date: <b>FEBRUARY 2007</b>					
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number <b>BA #2 OTHER WARSHIPS</b>							P-1 Line Item Nomenclature <b>CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)</b>					
Weapon System <b>BLI: 208600 CVN 72 RCOH</b>				First System (BY6) Award Date <b>Feb 13</b>			First System (BY9) Completion Date <b>Feb 16</b>					
(\$ in Millions)												
	PLT	When Req'd	Prior Years	CY FY07	BY1 FY08	BY2 FY09	BY3 FY10	BY4 FY11	BY5 FY12	BY6 FY13	To Complete	Total
End Item Qty												
Plans (Detailed)						4.5	9.3	11.0	12.0			36.8
Basic							76.1	234.5	372.6			683.2
Other						2.3	5.5	7.0	13.9			28.7
Nuc Prop Equipment						14.6	34.0	5.5	47.3			101.4
HM&E							2.0	4.4	5.5			11.9
Electronics							0.4	44.9	57.8			103.1
Ordnance							0.4	34.5	38.7			73.6
Total AP						21.4	127.7	341.8	547.8			1,038.7
<p>Description:</p> <p>Funding in FY 2009 thru FY 2012 is required to procure long lead items and fund long lead efforts critical to supporting an FY 2013 contract award. Efforts will include work package planning, integration, shipchecks, drawings, GFE engineering and hardware procurements. The advance planning contracts with NGNN are funded under Basic in each fiscal year.</p> <p>CVN 72 AP begins in FY09 and ends in FY012</p>												

Exhibit P-10, Advance Procurement Requirements Analysis (Page 2 - Budget Justification)							Date: <b>FEBRUARY 2007</b>		
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number <b>BA #2 OTHER WARSHIPS</b>					Weapon System <b>CVN 72 RCOH</b>		P-1 Line Item Nomenclature <b>CVN-68 Class RCOH</b>		
(TOA, \$ in Millions)									
	PLT	QPA	Unit Cost	FY09 Qty	FY09 Contract Forecast Date	FY09 Total Cost Request			
End Item									
Plans (Detailed)	various	Note 1			October 2008	4.5			
Basic	various	Note 1							
Other	various	Note 1			October 2008	2.3			
Nuc Prop Equip	various	Note 1			October 2008	14.6			
HM&E	various	Note 1							
Electronics	various	Note 1							
Ordnance	various	Note 1							
Total AP						21.4			
Note 1: QPA is one shipset									
CVN 72 AP begins in FY09 and ends in FY12									

CLASSIFICATION; UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET (P-40) FY 2008/2009 President's Budget Estimate Submission (\$M)	DATE: February 2007
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APPROPRIATION/BUDGET ACTIVITY BA #2 OTHER WARSHIPS	P-1 ITEM NOMENCLATURE SSN ERO (BLI 211100)										
	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TO COMPLETE	TOTAL PROGRAM
QUANTITY	7	0	0	0	0	0	0	0	0	0	7
End Cost	1,630.6	-	4.0	-	-	-	-	-	-	-	1,634.6
Less Advance Procurement	141.9	-	4.0	-	-	-	-	-	-	-	145.9
Less FY 02 Appropriations for Prior Year Ships	16.2	-	-	-	-	-	-	-	-	-	16.2
Pending SCN Execution Review Adjustment	-	-	-	-	-	-	-	-	-	-	-
Full Funding TOA	1,472.5	-	-	-	-	-	-	-	-	-	1,472.5
Plus Advance Procurement	284.2	-	-	-	-	-	-	-	-	-	284.2
Total Obligational Authority	1,756.7	-	-	-	-	-	-	-	-	-	1,756.7
Plus Outfitting and Post Delivery	10.2	1.4	1.0	0.3	-	-	-	-	-	-	13.0
Total	1,766.9	1.4	1.0	0.3	-	-	-	-	-	-	1,769.7
SSN Unit Cost (Ave. End Cost)	234.7	-	-	-	-	-	-	-	-	-	-

SSN ERO: This funding provides for Engineered Refueling Overhauls of LOS ANGELES Class (SSN 688) Fast Attack Submarines. This is a major overhaul performed near the mid-point of the submarine's service life to re-capitalize the vessel and extend the useful life to maintain SSN submarine force levels. Work performed includes: refueling of the reactor; major propulsion plant and ship equipments are repaired or upgraded; obsolete equipments are replaced; limited alterations to provide for reliable operations during the remaining operational life of the submarine and the ship is recertified for Unrestricted Operations (SUBSAFE URO). The unit cost reflects the refueling, repair and alterations mandays with the appropriate shipyard rate and material.

SSBN ERO: FY 04 Congressional direction requires separate Budget Line Items (BLI) for SSN EROs & SSBN EROs starting with FY04. Prior to FY04, SSBN ERO and D-5 Backfit Advance Procurement (AP) for SSBN 730 and SSBN 731 refueling overhauls were funded in the 211100 BLI. Details of FY02 and FY03 AP funding for these availabilities are included in the attached AP exhibits. FY04 and outyear funding for these and future SSBN availabilities is submitted in the 211300 BLI.

FY 2007 - The \$4.0M in Advance Procurement is unique, non-recurring AP for rescheduled EROs. These sunk costs, not directly attributable to any FY 2007 ERO, are included in End Cost for accounting purposes only.

<u>Characteristics:</u>	Production Status	<u>FY08</u>	<u>FY09</u>
	Contract Plans	N/A	N/A
<u>SSN 688 Class Hulls</u>	Award Planned (Month)	N/A	N/A
Length Overall 360'	Months to Complete		
Displacement 6,900 TONS	a) Award to Delivery	N/A	N/A
	b) Project Start to Delivery	N/A	N/A
	Commissioning Date	N/A	N/A
	Completion of Fitting Out	N/A	N/A

UNCLASSIFIED

P-5  
 FY 2008/2009 President's  
 Budget Estimate Submission  
 Feb-07

APPROPRIATION: SHIPBUILDING AND  
 CONVERSION, NAVY

SUBHEAD: 8234/H234

BUDGET ACTIVITY : 2  
 SUBMARINES

P-1 ITEM NOMENCLATURE: SSN ERO

ELEMENT OF COST	FY06		FY07		FY08		FY09	
	QTY	TOTAL COST						
PLAN COSTS		-		3,975 **		-		-
BASIC CONST/CONVERSION		-		-		-		-
CHANGE ORDERS		-		-		-		-
ELECTRONICS		-		-		-		-
PROPULSION EQUIPMENT		-		-		-		-
HULL, MECH & ELEC		-		-		-		-
OTHER COSTS		-		-		-		-
ORDNANCE		-		-		-		-
ESCALATION		-		-		-		-
TOTAL SHIP ESTIMATE	0	-	0	3,975 **	0	-	0	-
LESS: ADVANCE PROCUREMENT FY02		5,000 *		-		-		-
LESS: ADVANCE PROCUREMENT FY03		25,471 *		-		-		-
LESS: ADVANCE PROCUREMENT FY04		-		-		-		-
LESS: ADVANCE PROCUREMENT FY05		-		3,975 **		-		-
LESS: ADVANCE PROCUREMENT FY06		-		-		-		-
LESS: ADVANCE PROCUREMENT FY07		-		-		-		-
LESS: ADVANCE PROCUREMENT FY08		-		-		-		-
NET P-1 LINE ITEM		-		-		-		-

\* SSBN 731 ERO AP & D5 Backfit planning: no FY06 ERO in BLI 211100 (see BLI 211300)

\*\* FY07 - The \$3.975M in Advance Procurement is unique, non-recurring AP for rescheduled ERO. These sunk costs, not directly attributable to any FY2007 ERO, are included in End Cost for accounting purposes only.

UNCLASSIFIED

SHIPBUILDING AND CONVERSION, NAVY  
SHIP PRODUCTION SCHEDULE

P-27  
FY 2008/2009 President's  
Budget Estimate Submission  
Feb-07

SHIP TYPE	INDUSTRIAL ACTIVITY	FISCAL YEAR AUTHORIZED	AWARD OF PROJECT	START OF PROJECT	DELIVERY DATE
SSN 698 ERO	PEARL HARBOR NAVAL SHIPYARD & IMF	FY 2003	Oct-02	Mar-04	Mar-07
SSN 699 ERO	PORTSMOUTH NAVAL SHIPYARD	FY 2004	Oct-03	Sep-04	Jan-07
SSN 717 ERO	PEARL HARBOR NAVAL SHIPYARD & IMF	FY 2004	Oct-03	Mar-06	May-08

UNCLASSIFIED

P-8A  
 FY 2008/2009 President's  
 Budget Estimate Submission  
 Feb-07

SHIPBUILDING AND CONVERSION , NAVY  
 Analysis of Ship Cost Estimates - Major Equipment  
 (Dollars in Thousands)

Ship Type: Submarine Refueling Overhaul

**OTHER**

**b. Major Items**

Subtotal

**c. Miscellaneous Other Support**

**TOTAL OTHER**

	(0) FY 06 <u>TOT COST</u>	(0) FY 07 <u>TOT COST</u>	(0) FY 08 <u>TOT COST</u>	(0) FY 09 <u>TOT COST</u>
Subtotal	-	-	-	-
<b>c. Miscellaneous Other Support</b>	-	-	-	-
<b>TOTAL OTHER</b>	-	-	-	-

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Basic Escalation

Ship Type: Submarine Refueling Overhaul

I. Design Schedule

Not Applicable to Refueling Overhauls

Issue Date for TLR

Issue Date for TLS

Preliminary Design

Contract Design

Request for Proposals

Design Agent

II. Classification of Cost Estimate

Class D - Budget Quality Estimate ( Conversion/Modernization/ERO)

III. Basic Construction/Conversion

SSN 698

SSN 699

SSN 717

A. Assumed Award Date

Oct-02

Oct-03

Oct-03

B. Contract Type (and Share Line if applicable)

N/A

FFP

N/A

IV. Escalation

Not Applicable to Refueling Overhauls

Escalation Termination Date

Escalation Requirement

Labor/Material Split

Allowable Overhead Rate

V. Other Basic (Reserves/Miscellaneous)

Amount

None

CLASSIFICATION: UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET (P-40) FY 2008/2009 President's Budget Estimate Submission (\$M)										DATE: February 2007	
APPROPRIATION/BUDGET ACTIVITY BA #2 OTHER WARSHIPS					P-1 ITEM NOMENCLATURE SSBN ERO (BLI 211300)						
	Prior Years *	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TO COMPLETE	TOTAL PROGRAM
QUANTITY	1	1	1	1	1	1	1	1	1	2	11
End Cost	291.0	361.4	249.2	223.8	221.6	247.0	259.9	265.1	262.0	457.6	2,838.6
Less Advance Procurement	30.1	134.4	61.0	36.2	42.3	39.8	44.1	42.6	42.6	47.2	520.1
Full Funding TOA	261.0	227.0	188.2	187.7	179.3	207.2	215.7	222.5	219.5	410.5	2,318.5
Plus Advance Procurement	168.4	61.5	37.0	42.7	39.4	46.1	40.8	41.7	42.6	-	520.1
Total Obligational Authority	429.4	288.5	225.2	230.4	218.7	253.3	256.5	264.2	262.0	410.5	2,838.6
Plus Outfitting and Post Delivery	0.8	1.4	2.0	1.8	1.6	2.1	1.9	1.2	0.3	-	13.1
Total	430.2	289.7	227.7	232.2	220.3	255.4	258.5	265.4	262.3	410.7	2,851.7
SSBN Unit Cost (Ave. End Cost)	291.0	361.4	249.2	223.8	221.6	247.0	259.9	265.1	262.0	228.8	237.3

**NOTE: FY04 Congressional direction created a new SSBN Engineered Refueling Overhaul (ERO) budget line. Advance procurement for the FY05 and FY06 D-5 Backfits was funded in FY02 and FY03 in SCN line item 211100.**

SSBN ERO: This funding provides for Engineered Refueling Overhauls of OHIO Class (TRIDENT, SSBN 726) Strategic Missile Submarines. This is a major overhaul performed near the mid-point of the submarine's service life to re-capitalize the vessel and extend the useful life to maintain the required SSBN force level. Work performed includes: refueling of the reactor; major propulsion plant and ship equipments are repaired or upgraded; obsolete equipments are replaced; Ballistic missile systems are repaired or upgraded; limited alterations to provide for reliable operations during the remaining operational life of the submarines and the ship is re-certified for Unrestricted Operations (SUBSAFE URO). Also provided for is the upgrade of USS HENRY M. JACKSON (SSBN 730) and USS ALABAMA (SSBN 731) strategic weapons systems from TRIDENT I (C4) to TRIDENT II (D5) to achieve the President's Nuclear Posture goal of 14 TRIDENT D-5 equipped SSBN. This upgrade will be performed concurrent with their ERO in FY 2005 and FY 2006, respectively. All funding in the ordnance element of cost provides for procurement and installation of shipboard hardware to upgrade these two C4 configured SSBNs to the D5 configuration. The unit cost reflects the refueling, repair and alterations mandays with the appropriate shipyard rate and material.

		SSBN 731	SSBN 732	SSBN 733	SSBN 734
Characteristics:	Production Status	<u>FY06</u>	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>
	Contract Plans	May-04	Feb-05	Feb-06	Feb-07
<u>SSBN 726 Class Hulls</u>	Award Planned (Month)	May-04	Feb-05	Feb-06	Feb-07
Length Overall	560'				
Displacement	18,750 TONS				
Beam	42'				
Draft	36.25'				
	Months to Complete				
	a) Award to Delivery	47	48	47	50
	b) Project Start to Delivery	27	27	27	30
	Commissioning Date	N/A	N/A	N/A	N/A
	Completion of Fitting Out	Apr-08	Feb-09	Jan-10	Apr-11
	Obligation Work Limiting Date (OWLD)	Mar-09	Jan-10	Dec-10	Mar-12

UNCLASSIFIED

P-5  
 FY 2008/2009 President's  
 Budget Estimate Submission  
 Feb-06

APPROPRIATION: SHIPBUILDING AND  
 CONVERSION, NAVY

SUBHEAD: 8234/H234

BUDGET ACTIVITY : 2  
 OTHER WARSHIPS

P-1 ITEM NOMENCLATURE: SSBN ERO

ELEMENT OF COST	FY06		FY07		FY08		FY09	
	QTY	TOTAL COST						
PLAN COSTS		37,849		33,971		31,879		35,558
BASIC CONST/CONVERSION		129,867		140,079		151,502		140,106
CHANGE ORDERS		-		-		-		-
ELECTRONICS		-		-		-		-
PROPULSION EQUIPMENT		-		-		-		-
HULL, MECH & ELEC		-		-		-		-
OTHER COSTS		3,335		3,301		-		-
ORDNANCE		190,353		71,841		40,456		45,947
ESCALATION		-		-		-		-
<b>TOTAL SHIP ESTIMATE</b>	<b>1</b>	<b>361,404</b>	<b>1</b>	<b>249,192</b>	<b>1</b>	<b>223,837</b>	<b>1</b>	<b>221,611</b>
LESS: ADVANCE PROCUREMENT FY02		-		-		-		-
LESS: ADVANCE PROCUREMENT FY03		-		-		-		-
LESS: ADVANCE PROCUREMENT FY04		74,718		-		-		-
LESS: ADVANCE PROCUREMENT FY05		59,679		3,985		-		-
LESS: ADVANCE PROCUREMENT FY06		-		56,982		4,469		-
LESS: ADVANCE PROCUREMENT FY07*		-		-		31,716		5,282
LESS: ADVANCE PROCUREMENT FY08		-		-		-		37,036
<b>NET P-1 LINE ITEM</b>		<b>227,007</b>		<b>188,225</b>		<b>187,652</b>		<b>179,293</b>

**FY06:** SSBN 731 is being performed @ Puget Sound Naval Shipyard. This TRIDENT I (C4) equipped submarine will commence the concurrent TRIDENT II (D5) Backfits and ERO in FY 2006. All funding in the ordnance element of cost provides for procurement and installation of shipboard hardware to upgrade this C4 configured SSBN to the D5 configuration.

\*FY 2007 includes AP execution realignment between ships.

SHIPBUILDING AND CONVERSION, NAVY  
 Analysis of Ship Cost Estimates - Basic Escalation  
 Ship Type: SSBN ERO

P-5B  
 FY 2008/2009 President's  
 Budget Estimate Submission  
 Feb-06

I. Design Schedule

Not Applicable to SSBN ERO

Issue Date for TLR

Issue Date for TLS

Preliminary Design

Contract Design

Request for Proposals

Design Agent

II. Classification of Cost Estimate

Class D - Budget Quality Estimate ( Conversion/Modernization/ERO)

III. Basic Construction/Conversion

<u>SSBN 731</u>	<u>SSBN 732</u>	<u>SSBN 733</u>	<u>SSBN 734</u>
-----------------	-----------------	-----------------	-----------------

A. Assumed Award Date

May-04	Feb-05	Feb-06	Feb-07
--------	--------	--------	--------

B. Contract Type (and Share Line if applicable)

N/A	N/A	N/A	N/A
-----	-----	-----	-----

IV. Escalation

Not Applicable to Refueling Overhauls

Escalation Termination Date

Escalation Requirement

Labor/Material Split

Allowable Overhead Rate

V. Other Basic (Reserves/Miscellaneous)

Amount

None

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SHIPBUILDING AND CONVERSION, NAVY  
SHIP PRODUCTION SCHEDULE

P-27  
FY 2008/2009 President's  
Budget Estimate Submission  
Feb-06

SHIP TYPE	INDUSTRIAL ACTIVITY	FISCAL YEAR AUTHORIZED	AWARD OF PROJECT	START OF PROJECT	DELIVERY DATE
SSBN 730 ERO	PUGET SOUND NAVAL SHIPYARD & IMF	FY 2005	Mar-03	Nov-04	Feb-07
SSBN 731 ERO	PUGET SOUND NAVAL SHIPYARD & IMF	FY 2006	May-04	Jan-06	Apr-08
SSBN 732 ERO	NORFOLK NAVAL SHIPYARD	FY 2007	Feb-05	Nov-06	Feb-09
SSBN 733 ERO	PUGET SOUND NAVAL SHIPYARD & IMF	FY 2008	Feb-06	Oct-07	Jan-10
SSBN 734 ERO	NORFOLK NAVAL SHIPYARD	FY 2009	Feb-07	Oct-08	Apr-11
SSBN 735 ERO	PUGET SOUND NAVAL SHIPYARD & IMF	FY 2010	Feb-08	Oct-09	Apr-12
SSBN 736 ERO	NORFOLK NAVAL SHIPYARD	FY 2011	Feb-09	Oct-10	Apr-13
SSBN 737 ERO	PUGET SOUND NAVAL SHIPYARD & IMF	FY 2012	Feb-10	Oct-11	Apr-14
SSBN 738 ERO	NORFOLK NAVAL SHIPYARD	FY 2013	Feb-11	Oct-12	Apr-15

UNCLASSIFIED

P-8A  
 FY 2008/2009 President's  
 Budget Estimate Submission  
 Feb-06

SHIPBUILDING AND CONVERSION , NAVY  
 Analysis of Ship Cost Estimates - Major Equipment  
 (Dollars in Thousands)

Ship Type: SSBN ERO

	(1) FY 06 <u>TOT COST</u>	(1) FY 07 <u>TOT COST</u>	(1) FY 08 <u>TOT COST</u>	(1) FY 09 <u>TOT COST</u>
<b>OTHER</b>				
<b>Miscellaneous Other Support</b>	<u>3,335</u>	<u>3,301</u>	<u>-</u>	<u>-</u>
<b>TOTAL OTHER</b>	3,335	3,301	-	-

Date: February 2007

Shipbuilding and Conversion, Navy  
Exhibit P-8a, Analysis of Ship Cost Estimate - Major Equipment  
(Dollars in Thousands)

Ship Type: TRIDENT SSBN

Current Funding	FY 2006		FY 2007		FY 2008		FY 2009	
	Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
<b>Ordnance Equipment</b>								
<b>P-35 Items:</b>								
Launcher & Handling	Partial	53,530						
Fire Control	1 Shipset	28,384						
Navigation	1 Shipset	3,684						
Instrumentation & Missile Checkout	1 Shipset	11,884						
<b>Other Items:</b>								
System Integration / ERO SITP	1 Lot	25,985	1 Lot	29,532	1 Lot	24,457	1 Lot	29,413
Advance Planning	N/A	13,084	N/A	1,635	N/A	590	N/A	1,090
Shipyard Installation	1 Shipset	50,718	1 Shipset	14,852	1 Shipset	9,589	1 Shipset	11,544
DASO Support	1 Shipset	3,084	1 Shipset	3,392	1 Shipset	5,350	1 Shipset	3,600
ERO Equipment	1 Shipset	0	1 Shipset	22,430	1 Shipset	470	1 Shipset	300
<b>Total Ordnance Equipment Estimate</b>	<b>SSBN 731</b>	<b>190,353</b>	<b>SSBN 732</b>	<b>71,841</b>	<b>SSBN 733</b>	<b>40,456</b>	<b>SSBN 734</b>	<b>45,947</b>

P-1 Shopping List - Item No

Exhibit P-8a, Analysis of Ship Cost Estimate - Major Equipment

Launcher & Handling

Date: February 2006

Shipbuilding and Conversion, Navy  
 Exhibit P-35, Major Ship Component Fact Sheet  
 (Dollars in Thousands)

Ship Type - TRIDENT SSBN

Equipment Item - Launcher & Handling

Current Funding	FY 2006			FY 2007			FY 2008			FY 2009	
	SSBN	Total FY		SSBN	Total FY		SSBN	Total FY		SSBN	Total FY
Major Hardware	731	36,452									
Ancillary Equipment	731	1,670									
Technical Data and Documentation											
Spares											
System Engineering											
Technical Engineering Services	731	8,538									
Other Costs (Production Shutdown)	731	6,870									
<b>Total Launcher &amp; Handling</b>	<b>731</b>	<b>53,530</b>									
<b>Contract Data (Major Hardware)</b>											
	Prime Contractor	Contract Award Date	Contract Type	New/Option	Contract Qty	Contract Hardware Unit Cost					
FY 2004	Northrop Grumman Marine Systems	October 2003	CPIF/SS	New	1	36,452					
FY 2005											
<b>Delivery Data</b>											
	Earliest Ship Delivery Date	Months Required before Delivery	Production Lead Time	Required Award Date							
FY 2004	SSBN 731/April 2008	27	12-24	May 2004							
FY 2005											

P-1 Shopping List - Item No

Exhibit P-35, Major Ship Component Fact Sheet

Fire Control

Date: February 2006

Shipbuilding and Conversion, Navy  
 Exhibit P-35, Major Ship Component Fact Sheet  
 (Dollars in Thousands)

Ship Type - TRIDENT SSBN

Equipment Item - Fire Control

Current Funding	FY 2006			FY 2007			FY 2008			FY 2009	
	SSBN	Total FY		SSBN	Total FY		SSBN	Total FY		SSBN	Total FY
Major Hardware	731	22,560									
Ancillary Equipment											
Technical Data and Documentation											
Spares											
System Engineering											
Technical Engineering Services	731	2,262									
Other Costs (LSCG Phase 1 SPALT)	731	3,562									
<b>Total Fire Control</b>	<b>731</b>	<b>28,384</b>									

Contract Data (Major Hardware)	Prime Contractor	Contract Award Date	Contract Type	New/Option	Contract Qty	Contract Hardware Unit Cost
FY 2004	GDAIS	October 2003	CPIF/SS	New	1	22,560
FY 2005						

Delivery Data	Earliest Ship Delivery Date	Months Required before Delivery	Production Lead Time	Required Award Date
FY 2004	SSBN 731/April 2008	27	24	May 2004
FY 2005				

P-1 Shopping List - Item No

Exhibit P-35, Major Ship Component Fact Sheet

Navigation

Date: February 2006

Shipbuilding and Conversion, Navy  
 Exhibit P-35, Major Ship Component Fact Sheet  
 (Dollars in Thousands)

Ship Type - TRIDENT SSBN

Equipment Item - Navigation

Current Funding	FY 2006			FY 2007			FY 2008			FY 2009	
	SSBN	Total FY		SSBN	Total FY		SSBN	Total FY		SSBN	Total FY
Major Hardware											
Ancillary Equipment											
Technical Data and Documentation											
Spares											
System Engineering											
Technical Engineering Services	731	3,684									
Other Costs											
<b>Total Navigation</b>	<b>731</b>	<b>3,684</b>									
<b>Contract Data (Major Hardware)</b>											
	Prime Contractor	Contract Award Date		Contract Type	New/Option	Contract Qty		Contract Hardware Unit Cost			
	FY 2004										
	FY 2005										
<b>Delivery Data</b>											
	Earliest Ship Delivery Date		Months Required before Delivery		Production Lead Time		Required Award Date				
	FY 2004										
	FY 2005										

P-1 Shopping List - Item No

Exhibit P-35, Major Ship Component Fact Sheet

Instrumentation & Msl Checkout

Date: February 2006

Shipbuilding and Conversion, Navy  
 Exhibit P-35, Major Ship Component Fact Sheet  
 (Dollars in Thousands)

Ship Type - TRIDENT SSBN

Equipment Item - Instrumentation & Missile Checkout

Current Funding	FY 2006		FY 2007		FY 2008		FY 2009	
	SSBN	Total FY	SSBN	Total FY	SSBN	Total FY	SSBN	Total FY
Major Hardware	731	2,671						
Ancillary Equipment	731	1,971						
Technical Data and Documentation								
Spares								
System Engineering								
Technical Engineering Services	731	5,971						
Other Costs (M240R Data Recording System)	731	1,271						
<b>Total Instrumentation &amp; Missile Checkout</b>	<b>731</b>	<b>11,884</b>						
<b>Contract Data (Major Hardware)</b>								
	Prime Contractor	Contract Award Date	Contract Type	New/Option	Contract Qty	Contract Hardware Unit Cost		
FY 2004	Lockheed Martin Space Systems Co.	October 2003	CPIF/SS	New	1	0		
FY 2005								
<b>Delivery Data</b>								
	Earliest Ship Delivery Date	Months Required before Delivery	Production Lead Time	Required Award Date				
FY 2004	SSBN 731/April 2008	27	24	May 2004				
FY 2005								

P-1 Shopping List - Item No

Exhibit P-35, Major Ship Component Fact Sheet

Exhibit P-10, Advance Procurement Requirements Analysis (Page 1 - Funding)						Date: Feb-07											
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number 1711 Shipbuilding and Conversion, Navy/BA 02/BLI 211300						P-1 Line Item Nomenclature SSBN EROs											
OHIO (SSBN 726) Class Submarines Submarine Refueling Overhauls (ERO): SSBN 731(FY06),SSBN 732(FY07),SSBN 733(FY08),SSBN 734(FY09) SSBN 735(FY10),SSBN 736(FY11),SSBN 737(FY12),SSBN 738(FY13),SSBN 739 (FY14),SSBN 740 (FY15)						First System Award Date Mar-03			First System Completion Date Feb-07								
(\$ in Millions)						PLT	When Req'd	Prior Years	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	Total
<b>End Item Qty</b>																	
PLANS - FY06 ERO (1)							Various	36.8	-	-	-	-	-	-	-	-	36.8
PLANS - FY07 ERO (1)							Various	4.0	28.9	-	-	-	-	-	-	-	32.9
PLANS - FY08 ERO (1)							Various	-	4.5	26.3	-	-	-	-	-	-	30.8
PLANS - FY09 ERO (1)							Various	-	-	3.9	30.5	-	-	-	-	-	34.4
PLANS - FY10 ERO (1)							Various	-	-	-	4.7	27.7	-	-	-	-	32.4
PLANS - FY11 ERO (1)							Various	-	-	-	-	4.0	32.4	-	-	-	36.4
PLANS - FY12 ERO (1)							Various	-	-	-	-	-	5.5	28.0	-	-	33.5
PLANS - FY13 ERO (1)							Various	-	-	-	-	-	-	3.5	28.6	-	32.1
PLANS - FY14 ERO (1)							Various	-	-	-	-	-	-	-	3.6	29.2	32.8
PLANS - FY15 ERO (1)							Various	-	-	-	-	-	-	-	-	3.7	3.7
ORDNANCE - FY05 ERO (2)							Various	30.1	-	-	-	-	-	-	-	-	30.1
ORDNANCE - FY06 ERO (2)							Various	97.6	-	-	-	-	-	-	-	-	97.6
EQUIPMENT PROCUREMENT - FY07 ERO (3)							Various	-	28.1	-	-	-	-	-	-	-	28.1
EQUIPMENT PROCUREMENT - FY08 ERO (3)							Various	-	-	5.4	-	-	-	-	-	-	5.4
EQUIPMENT PROCUREMENT - FY09 ERO (3)							Various	-	-	1.4	6.5	-	-	-	-	-	7.9
EQUIPMENT PROCUREMENT - FY10 ERO (3)							Various	-	-	-	1.0	6.4	-	-	-	-	7.4
EQUIPMENT PROCUREMENT - FY11 ERO (3)							Various	-	-	-	-	1.3	6.5	-	-	-	7.8
EQUIPMENT PROCUREMENT - FY12 ERO (3)							Various	-	-	-	-	-	1.7	7.3	-	-	9.0
EQUIPMENT PROCUREMENT - FY13 ERO (3)							Various	-	-	-	-	-	-	2.0	8.5	-	10.4
EQUIPMENT PROCUREMENT - FY14 ERO (3)							Various	-	-	-	-	-	-	-	1.0	8.2	9.2
EQUIPMENT PROCUREMENT - FY15 ERO (3)							Various	-	-	-	-	-	-	-	-	1.5	1.5
<b>TOTAL AP</b>								168.4	61.5	37.0	42.7	39.4	46.1	40.8	41.7	42.6	520.1

(1) **PLANS AP:** Submarine Engineered Refueling Overhauls (EROs) are complex, short duration availabilities performed to extend the useful life of the vessel. Average duration of an ERO is 24 months with a production period of less than 15 months. Unlike ships under construction EROs are performed on assembled hulls with limited access. The unique sensitive and safety (SUBSAFE) nature of submarine repair and refueling efforts dictates that the availability must be thoroughly and carefully integrated in advance to minimize disruptions and delays. The production period at the beginning of the ERO is extraordinarily labor intensive advance Procurement (AP) is essential for timely & cost-efficient execution.

(2) **ORDNANCE AP:** Required to procure shipboard hardware needed to upgrade TRIDENT I (C4) configured SSBN 730 & SSBN 731 to TRIDENT II (D5) capability. The following page contains a detailed breakout of these costs.

(3) **Equipment Procurement:** Required to provide Norfolk Naval Shipyard with handling, installation and checkout support equipment and also provided long-lead TRIDENT II (D5) Strategic Weapons Systems (SWS) subsystem replacement shipboard equipment essential to ensuring the operability and maintainability of the TRIDENT II SWS and, by implementing necessary modifications to existing SWS hardware, guaranteeing the homogeneity of all D5 subsystems aboard all 14 TRIDENT II SSBNs.

**FY04 Congressional direction split SSN & SSBN ERO funding in FY04 & out. FY03 & prior SSBN ERO AP in FY02 & FY03 is funded in BLI 211100.**

Exhibit P-10, Advance Procurement Requirements Analysis (Page 1 - Funding)										Date: <b>February 2007</b>			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number: 1711 Shipbuilding and Conversion, Navy/BA 2 - Other Warships/211300										P-1 Line Item Nomenclature: SSBN EROs			
OHIO (SSBN 726) Class Submarines					First System (BY1) Award and Completion Date: January 2002 - October 2004					Interval between Systems: One Year			
(\$ in Millions)													
	PLT in Months	When Required	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total
End Item Qty				0	1	1	1	1	1	1	1	7	14
<i>D5 Backfit AP</i>													
<i>ERO AP</i>	12-24	FY 07/13		28.1	6.8	7.5	7.7	8.2	9.3	9.5	9.7	38.2	124.9
<b>Total Advance Procurement</b>				<b>28.1</b>	<b>6.8</b>	<b>7.5</b>	<b>7.7</b>	<b>8.2</b>	<b>9.3</b>	<b>9.5</b>	<b>9.7</b>	<b>38.2</b>	<b>124.9</b>
Description:  <b>ERO AP</b> - Funds are required to outfit Norfolk Naval Shipyard with handling, installation and checkout support equipment and also to provide long-lead TRIDENT II (D5) Strategic Weapon System (SWS) subsystem replacement shipboard equipment essential to ensuring the operability and maintainability of the TRIDENT II SWS and, by implementing necessary modifications to existing SWS hardware and software, guaranteeing the homogeneity of all D5 subsystems aboard all 14 TRIDENT II SSBNs.													

Exhibit P-10, Advance Procurement Requirements Analysis (Page 2 - Budget Justification)											Date: February 2007	
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number 1711 Shipbuilding and Conversion, Navy/BA 02/BLI 211300					OHIO (SSBN 726) Class Submarines					P-1 Line Item Nomenclature: SSBN EROs		
(TOA, \$ in Millions)												
	PLT	QPA	Unit Cost	FY 06 Qty	FY 06 Contract Forecast Date	FY 06 Total Cost Request	FY 07 Qty	FY 07 Contract Forecast Date	FY 07 Total Cost Request	FY 08 Qty	FY 08 Contract Forecast Date	FY 08 Total Cost Request
End Item				0	May-04		1	February-05		1	February-06	
PLANS (1) FY07 ERO						28.9						
PLANS (1) FY08 ERO						4.5			26.3			
PLANS (1) FY09 ERO									3.9			30.5
PLANS (1) FY10 ERO												4.7
EQUIPMENT (3) FY07 ERO						28.1						
EQUIPMENT (3) FY08 ERO									5.4			
EQUIPMENT (3) FY09 ERO									1.4			6.5
EQUIPMENT (3) FY10 ERO												1.0
<b>Total AP</b>						<b>61.5</b>			<b>37.0</b>			<b>42.7</b>
<p>(1) <b>PLANS AP</b> consists of developing work packages and general engineering design for submarine maintenance, repair, and refueling.</p> <p>(3) <b>EQUIPMENT AP</b> is required to provide handling, installation &amp; checkout support equipment and provide long-lead TRIDENT II Strategic weapons Systems (SWS) subsystem replacement shipboard equipment.</p>												

Exhibit P-10, Advance Procurement Requirements Analysis (Page 2 - Budget Justification)	Date: February 2007
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Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number 1711 Shipbuilding and Conversion, Navy/BA 02/BLI 211300	OHIO (SSBN 726) Class Submarines	P-1 Line Item Nomenclature: SSBN EROs
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(TOA, \$ in Millions)

	PLT	QPA	Unit Cost	FY 09 Qty	FY 09 Contract Forecast Date	FY 09 Total Cost Request					
End Item				1	February-07						
PLANS (1) FY10 ERO						27.7					
PLANS (1) FY11 ERO						4.0					
PLANS (1) FY12 ERO											
PLANS (1) FY13 ERO											
EQUIPMENT (3) FY10 ERO						6.4					
EQUIPMENT (3) FY11 ERO						1.3					
EQUIPMENT (3) FY12 ERO											
EQUIPMENT (3) FY13 ERO											
<b>Total AP</b>						<b>39.4</b>					

(1) **PLANS AP** consists of developing work packages and general engineering design for submarine maintenance, repair, and refueling.

(3) **EQUIPMENT AP** is required to provide handling, installation & checkout support equipment and provide long-lead TRIDENT II Strategic weapons Systems (SWS) subsystem replacement shipboard equipment.

Exhibit P-10, Advance Procurement Requirements Analysis (Page 2 - Budget Justification)							Date: <b>February 2007</b>		
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number: 1711 Shipbuilding and Conversion, Navy/BA 2 - Other Warships/211300					OHIO (SSBN 726) Class Submarines		P-1 Line Item Nomenclature: SSBN EROs		
(TOA, \$ in Millions)									
	PLT in months	QPA	Unit Cost	FY 2006 Qty	FY 2006 Contract Forecast Date	FY 2006 Total Cost Request	FY 2007 Qty	FY 2007 Contract Forecast Date	FY 2007 Total Cost Request
End Item Qty		N/A			May-04	N/A		Feb-05	N/A
CFE/Ordnance:									
Other Advance Proc:									
<i>ERO AP</i>	12	1 Shipset		1 Lot	2nd Quarter FY 06	28.1	1 Lot	1st Quarter FY 07	6.8
<b>Total Advance Procurement</b>						<b>28.1</b>			<b>6.8</b>

Exhibit P-10, Advance Procurement Requirements Analysis (Page 2 - Budget Justification)							Date: <b>February 2007</b>		
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number: 1711 Shipbuilding and Conversion, Navy/BA 2 - Other Warships/211300					OHIO (SSBN 726) Class Submarines		P-1 Line Item Nomenclature: SSBN EROs		
(TOA, \$ in Millions)									
	PLT in months	QPA	Unit Cost	FY 2008 Qty	FY 2008 Contract Forecast Date	FY 2008 Total Cost Request	FY 2009 Qty	FY 2009 Contract Forecast Date	FY 2009 Total Cost Request
End Item Qty		N/A			Feb-06	N/A		Feb-07	N/A
CFE/Ordnance:									
Other Advance Proc:									
<i>ERO AP</i>	12	1 Shipset		1 Lot		7.5	1 Lot		7.7
<b>Total Advance Procurement</b>						<b>7.5</b>			<b>7.7</b>

CLASSIFICATION: UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET (P-40) FY 2008/2009 PRESIDENT'S BUDGET										DATE: February 2007	
APPROPRIATION/BUDGET ACTIVITY BA #2 OTHER WARSHIPS SHIPBUILDING AND CONVERSION NAVY					P-1 ITEM NOMENCLATURE: DDG 1000					BLI: 211900	
	PRIOR YEARS	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	TO COMPLETE	TOTAL PROGRAM
QUANTITY			2	0	1	1	1	1	1	TBD	7
End Cost			6,370.2	0.0	2,562.7	2,501.1	2,265.3	2,370.5	2,115.4	TBD	18,185.2
Less Advance Procurement			1,010.3	0.0	150.9	51.0	50.6	50.0	50.0	TBD	1,362.7
Less Subsequent Year FF			2,802.6	0.0	0.0	0.0	0.0	0.0	0.0	TBD	2,802.6
Plus Subsequent Year FF			0.0	2,802.6	0.0	0.0	0.0	0.0	0.0	TBD	2,802.6
Full Funding TOA			2,557.3	2,802.6	2,411.8	2,450.1	2,214.8	2,320.5	2,065.4	TBD	16,822.5
Plus Advance Procurement	304.0	706.2	0.0	150.9	51.0	50.6	50.0	50.0	0.0	TBD	1,362.7
Total Obligational Authority	304.0	706.2	2,557.3	2,953.5	2,462.8	2,500.7	2,264.8	2,370.5	2,065.4	TBD	18,185.2
Plus Outfitting and Post Delivery			0.0	0.0	0.0	23.4	41.1	95.7	141.2	319.9	621.3
Total	304.0	706.2	2,557.3	2,953.5	2,462.8	2,524.1	2,305.9	2,466.2	2,206.7	TBD	18,486.6
Unit Cost (Ave. End Cost)			3,185.1	0.0	2,562.7	2,501.1	2,265.3	2,370.5	2,115.4	TBD	15,000.1

Mission: This Budget Submission is based on the DDG 1000 Baseline 5.3 design for a DDG 1000 of 14,564 tons displacement with two Advanced Gun Systems (AGS) including a total magazine capacity of 600 rounds. DDG 1000, a multi-mission surface combatant, is the centerpiece of the U.S. Navy's future surface fleet transformation and will serve as a versatile asset in the context of future Naval Strategy. Armed with an array of Sea Strike weapons, DDG 1000 will provide the Joint Force Commander with precision strike and volume fires. Designed with sustainable payload, multi-spectral stealth and optimal manning, DDG 1000 will take the fight to the enemy with unprecedented striking power, sustainability, survivability and information dominance.

**Note: This budget incorporates PB07 Authorization for split funding of dual lead ships.**

<b>Characteristics:</b>		<b>Production Status*:</b>	<b>0701</b>	<b>0702</b>	<b>0901</b>
Hull		Contract Plans			
Length Overall	610'	Award Planned (Month)	02/07	02/07	01/09
Beam	80.7'	Months to Complete			
Displacement (LT)	14,564	a)Award to Delivery	70	70	72
Draft (Navigation)	27.6'	b)Construction Start to Delivery	53	53	52
Speed	30 kts	Commissioning Date	TBD	TBD	TBD
Installed Power	78.4 MW	Completion of			
Crew Size	142	Fitting Out	02/13	02/13	02/15
Hull	Wave-piercing tumblehome	*Dates provided are planning dates only and are subject to change based on ongoing negotiations for construction of lead ships and acquisition strategy determination for follow ships.			
Superstructure	Composite structure				

<b>Weapons:</b>	<b>Sensors:</b>	<b>Integrated Power System:</b>	<b>Aviation:</b>	<b>Boats:</b>
2 Advanced Gun Systems 155mm	Dual Band Radar System	2 Main Gas Turbine Generators	MH60R (Capacity for 2)	2 7m RHIBs
80 Mk 57 Vertical Launch cells	Acoustic Sensor Suite	2 Auxiliary Gas Turbine Generators	3 VTUAVs	(Sized for 2 11m RHIBs)
2 57mm Close-In Gun Systems	EO / IR System	2 Propulsion Motors		

CLASSIFICATION: UNCLASSIFIED

DD Form 2454, JUL 88

UNCLASSIFIED  
CLASSIFICATION

P-5 EXHIBIT  
FY 2008/2009 PRESIDENT'S BUDGET  
BUDGET ESTIMATES  
February 2007

APPROPRIATION: SHIPBUILDING AND  
CONVERSION

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

BUDGET ACTIVITY: 2  
OTHER WARSHIPS

P-1 ITEM NOMENCLATURE: DDG 1000

SUBHEAD: 1226

BLI: 211900

ELEMENT OF COST	FY 2007		FY 2009	
	QTY	TOT COST	QTY	TOT COST
PLAN COSTS		910,100		74,138
BASIC CONST/CONVERSION		2,584,000		1,289,969
CHANGE ORDERS		258,400		64,498
ELECTRONICS		1,651,836		686,508
HM&E		86,151		42,905
OTHER COST		130,000		67,614
ORDNANCE		749,705		337,057
<b>TOTAL SHIP ESTIMATE</b>	<b>2</b>	<b>6,370,193</b>	<b>1</b>	<b>2,562,689</b>
LESS: ADVANCE PROCUREMENT FY 2005		304,048		
LESS: ADVANCE PROCUREMENT FY 2006		706,240		
LESS: ADVANCE PROCUREMENT FY 2008				150,886
FY08 SUBSEQUENT YEAR FULL FUNDING		0		
<b>NET P-1 LINE ITEM</b>		<b>5,359,905</b>		<b>2,411,803</b>

UNCLASSIFIED  
CLASSIFICATION

P-5B EXHIBIT  
FY 2008/2009 PRESIDENT'S BUDGET  
BUDGET ESTIMATES  
February 2007

**SHIPBUILDING AND CONVERSION, NAVY**  
Analysis of Ship Cost Estimated - Basic/Escalation

Fiscal Year                    2008/2009                    Ship Type: DDG 1000

<u>I. Design Schedule</u>	<u>Start / Issue</u>	<u>Complete /Response</u>	<u>Reissue</u>	<u>Complete / Response</u>
Issue date for ORD	11/97 (DD 21)	5/04 (DD(X))		
Preliminary Design Review (PDR)	1/04	3/04		
Request for Proposals (Lead Ships)	1/06	4/06		
Milestone B	11/05	11/05		
Critical Design Review (CDR)	6/05	9/05		
DAB Review (Lead ship construction)	10/06	10/06		

**II. Classification of Cost Estimate**

Class C Budget Estimate

**III. Basic Construction/Conversion**

a. <b>Assumed Award Date</b>	<b>0701</b> Feb 07	<b>0702</b> Feb 07	<b>0901</b> Jan 09
b. <b>Contract Type</b>	CPAF	CPAF	TBD

**IV. Escalation**

Base Date  
Escalation Target Cost  
Escalation Termination Date  
Escalation Requirement  
Labor/Material Split  
Allowable Overhead Rate

N/A Forward Priced

**V. Other Basic (Reserves/Miscellaneous)**

N/A

UNCLASSIFIED  
CLASSIFICATION

P-27 EXHIBIT  
FY 2008/2009 PRESIDENT'S BUDGET  
February 2007

**SHIPBUILDING AND CONVERSION, NAVY**

**SHIP PRODUCTION SCHEDULE**

<b>SHIP TYPE</b>	<b>SHIPBUILDER</b>	<b>FISCAL YEAR AUTHORIZED</b>	<b>CONTRACT AWARD</b>	<b>START OF CONSTRUCTION</b>	<b>DELIVERY DATE*</b>
DDG 1000	NGSS	07	Feb-07	Jul-08	Dec-12
DDG 1001	BIW	07	Feb-07	Jul-08	Dec-12
DDG 1002	TBD	09	Jan-09	Jul-10	Dec-14
DDG 1003	TBD	10	Jan-10	Jul-11	Jul-15
DDG 1004	TBD	11	Jan-11	Jul-12	Jan-16
DDG 1005	TBD	12	Jan-12	Jul-13	Jul-17
DDG 1006	TBD	13	Jan-13	Jul-14	Jan-18

\*Note: Delivery dates are planned dates only.

Actual contract delivery dates are dependent on final shipbuilder construction contract negotiations.

**SHIPBUILDING AND CONVERSION, NAVY**  
**Analysis of Ship Cost Estimates - Major Equipment**  
**(Dollars in TY Thousands)**

Ship Type: DDG-1000

	QTY	FY07 DDG-1000 TOT COST	QTY	FY09 DDG-1000 TOT COST
<b>ELECTRONICS EQUIPMENT</b>				
<b>a. P-35 Items</b>				
1. EXCOMMs	2 Shipsets	272,313	1 Shipset	99,198
2. Integrated Undersea Warfare (IUSW)	2	97,165	1	58,815
3. Dual Band Radar (DBR)	2	569,452	1	293,304
4. Common Array Power System (CAPS)	2	110,379	1	36,119
5. Total Ship Computing Environment (TSCE)	2	192,244	1	71,329
6. Electrical-Optical / Infrared (EO/IR)	2	55,538	1	13,973
7. Identification Friend or Foe (IFF)	2	21,406	1	6,249
8. Common Array Cooling System (CACs)	2	13,537	1	3,692
9. Electronic Modular Enclosures (EME)	2	35,557	1	4,372
10. Ship Control System (SCS)	2	57,862	1	28,225
<b>Subtotal</b>		<b>1,425,453</b>		<b>615,277</b>
<b>b. Major Items</b>				
<b>Subtotal</b>		-		-
<b>c. Mission System Engineering Integration and Test (MSEIT)</b>				
<b>Subtotal</b>		<b>226,383</b>		<b>71,231</b>
<b>TOTAL ELECTRONICS</b>		<b>1,651,836</b>		<b>686,508</b>

**UNCLASSIFIED**  
**CLASSIFICATION**

P-8A EXHIBIT  
FY 2008/2009 PRESIDENT'S BUDGET  
February 2007

**SHIPBUILDING AND CONVERSION, NAVY**  
**Analysis of Ship Cost Estimates - Major Equipment**  
**(Dollars in Thousands)**

**Ship Type: DDG-1000**

<b>HM&amp;E EQUIPMENT</b>	<b>QTY</b>	<b>FY07 DDG-1000 TOT COST</b>	<b>QTY</b>	<b>FY09 DDG-1000 TOT COST</b>
<b>a. P-35 Items</b>				
1. MTG	4	85,117	2	42,367
<b>Subtotal</b>		<b>85,117</b>		<b>42,367</b>
<b>b. Major Items</b>				
1. RHIB	2	1,034	1	538
<b>Subtotal</b>		<b>1,034</b>		<b>538</b>
<b>c. Other HM&amp;E</b>		-		-
<b>Subtotal</b>		-		-
<b>TOTAL HM&amp;E</b>		<b>86,151</b>		<b>42,905</b>

**UNCLASSIFIED**  
**CLASSIFICATION**

P-8A EXHIBIT  
FY 2008/2009 PRESIDENT'S BUDGET  
February 2007

**SHIPBUILDING AND CONVERSION, NAVY**  
**Analysis of Ship Cost Estimates - Major Equipment**  
**(Dollars in TY Thousands)**

**Ship Type: DDG-1000**

	<b>QTY</b>	<b>FY07 DDG-1000 TOT COST</b>	<b>QTY</b>	<b>FY09 DDG-1000 TOT COST</b>
<b>ORDNANCE EQUIPMENT</b>				
<b>a. P-35 Items</b>				
1. Advanced Gun System(AGS)	4	413,538	2	236,156
2. Vertical Launching System (VLS) MK 57 40 4-cell modules		194,581	20 4-cell modules	60,490
3. Close-In Gun System (CIGS)	4	75,064	2	24,774
<b>Subtotal</b>		<b>683,182</b>		<b>321,420</b>
<b>b. Major Items</b>		-		-
<b>Subtotal</b>		-		-
<b>c. Other Ordnance</b>		66,523		15,637
<b>Subtotal</b>		<b>66,523</b>		<b>15,637</b>
<b>TOTAL ORDNANCE</b>		<b>749,705</b>		<b>337,057</b>

**UNCLASSIFIED**  
**CLASSIFICATION**

P-8A EXHIBIT  
FY 2008/2009 PRESIDENT'S BUDGET  
February 2007

**SHIPBUILDING AND CONVERSION, NAVY**  
**Analysis of Ship Cost Estimates - Major Equipment**  
**(Dollars in Thousands)**

Ship Type: DDG-1000

		FY07 DDG-1000 TOT COST		FY09 DDG-1000 TOT COST
Other Costs	QTY		QTY	
<b>a. P-35 Items</b>				
1		-		-
<b>Subtotal</b>		-		-
<b>b. Major Items</b>				
1. Engineering Support	2	87,000	1	45,250
2. ILS Support	2	10,000	1	5,201
3. Program Management Support	2	33,000	1	17,163
<b>Subtotal</b>		<b>130,000</b>		<b>67,614</b>
<b>c. Other</b>				
<b>Subtotal</b>		-		-
<b>TOTAL Other</b>		<b>130,000</b>		<b>67,614</b>

DDG-1000

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(TY\$K)

P-35 EXHIBIT  
FY 2008/2009 PRESIDENT'S BUDGET  
February 2007

ITEM: External Communications (EXCOMMs)

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

EXCOMMs are part of the DDG-1000 C3I Segment and consists of a set of seven (7) external communications elements. The EXCOMM Elements support the DDG-1000 system in achieving its mission by providing communications between DDG-1000 and other land, air, and sea based platforms as well as pier-side communications. These EXCOMM elements provide the voice, data, and video communications between DDG-1000 and the external world at sea as well as when in port. The 7 elements are: Satellite Communications (SATCOMs), Line of Sight (LOS), Common Data Link-Navy (CDL-N), Information Security (INFOSEC), Common Array Element (CAE), Cooperative Engagement Capability (CEC) and Integrated Communications Controller Software (ICCS). \*Government legacy systems include: DCGS-N, CEC, Comm Terminals, WSC-6(V)9, CLIP, ADNS, GBS, CDLS, & NAVMACS

II. CURRENT FUNDING:

SHIPTYPE: DDG-1000	FY 07	FY09
Major Hardware	141,002	68,861
Tech. Eng. Serv.	11,099	5,495
Government legacy systems*	47,623	24,843
Other Costs (NRE)	72,589	0
TOTAL	272,313	99,198

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>CONTRACTOR</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>
FY 07	DDG-1000	Raytheon	2	70,501	2Q07
FY 09	DDG-1000	Raytheon	1	68,861	2Q09

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEADTIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 07	DDG-1000	1Q13	18-37	34	2Q07
FY 09	DDG-1000	1Q15	18-37	30	3Q09

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

DDG-1000

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(TY\$K)

P-35 EXHIBIT  
FY 2008/2009 PRESIDENT'S BUDGET  
February 2007

ITEM: Integrated Undersea Warfare (IUSW)

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The IUSW suite supports DDG-1000 in achieving Undersea and Surface Dominance with the capability to detect and track hostile surface vessels, submarines, and moored volume mines. It supports the Sensor Systems Segment in accomplishing its Integrated Air and Surface Dominance (IASD) and Integrated Undersea Dominance (IUSD) objectives by providing the capability to conduct Anti-Submarine Warfare (ASW), Torpedo Defense (TD) and Mine Warfare (MIW) missions. Military Operations Other than War (MOOTW) objectives, such as Search and Rescue (SAR) (locating downed aircraft and vessels in the ocean) are also supported. There are four major subcomponents: Bow Array Component, Towed Array Component, Towed Torpedo Countermeasures Component, and Software.

II. CURRENT FUNDING:

SHIPTYPE: DDG-1000	FY 07	FY09
Major Hardware	60,708	29,954
Tech. Eng. Serv.	4,779	2,390
Other Costs (NRE)	31,678	0
3rd Ship Battle Spares	0	26,470
<b>TOTAL</b>	<b>97,165</b>	<b>58,815</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>CONTRACTOR</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>
FY 07	DDG-1000	Raytheon	2	30,354	2Q07
FY 09	DDG-1000	Raytheon	1	29,954	2Q09

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEADTIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 07	DDG-1000	1Q13	19-37	30	3Q07
FY 09	DDG-1000	1Q15	19-37	24	1Q10

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

DDG-1000

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(TY\$K)

P-35 EXHIBIT  
FY 2008/2009 PRESIDENT'S BUDGET  
February 2007

ITEM: Dual Band Radar (DBR)

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The Dual Band Radar element supports the DDG-1000 system in achieving Integrated Air and Surface Dominance with the capability to neutralize hostile surface vessels and aircraft at short ranges. The DBR is comprised of X-Band (AN/SPY-3) and S-Band Radar arrays integrated through a common signal data processor offering surface and horizon search capabilities and 3-D air search radar capabilities in both bands. The X-Band portion also has two navigation modes (high power and lower power) for use in piloting and marine navigation.

II. CURRENT FUNDING:

SHIPTYPE: DDG-1000	FY 07	FY09
Major Hardware	390,972	200,110
Tech. Eng. Serv.	30,775	15,967
Other Costs (NRE)	147,705	0
3rd Ship Battle Spares	0	77,227
<b>TOTAL</b>	<b>569,452</b>	<b>293,304</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>CONTRACTOR</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>
FY 07	DDG-1000	Raytheon	2	195,486	2Q07
FY 09	DDG-1000	Raytheon	1	200,110	2Q09

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEADTIME (MTHs)</u>	<u>REQUIRED AWARD DAT</u>
FY 07	DDG-1000	1Q13	37-45	24	2Q07
FY 09	DDG-1000	1Q15	37-45	24	2Q09

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

DDG-1000

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(TY\$K)

P-35 EXHIBIT  
FY 2008/2009 PRESIDENT'S BUDGET  
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ITEM: Common Array Power System (CAPS)

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The Common Array Power System (CAPS) provides electrical power for the Dual Band Radar (DBR), Identification of Friend or Foe (IFF), EW/Cryptology and External Communications (EXCOMMs) Elements. The CAPS is a distributed power system designed to operate from the ship-supplied medium voltage distribution Integrated Power System's (IPS) 13.8 kV AC power source. The CAPS consists of two Power Distribution Unites (PDUs) and six Power Conversion Units (PCUs).

II. CURRENT FUNDING:

SHIPTYPE: DDG-1000	FY 07	FY09
Major Hardware	68,494	33,450
Tech. Eng. Serv.	5,391	2,669
Other Costs (NRE)	36,493	0
TOTAL	110,379	36,119

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>CONTRACTOR</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>
FY 07	DDG-1000	Raytheon	2	34,247	2Q07
FY 09	DDG-1000	Raytheon	1	33,450	2Q09

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEADTIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 07	DDG-1000	1Q13	42-46	23	2Q07
FY 09	DDG-1000	1Q15	42-46	23	2Q09

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

DDG-1000

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(TY\$K)

P-35 EXHIBIT  
FY 2008/2009 PRESIDENT'S BUDGET  
February 2007

ITEM: Total Ship Computing Environment (TSCE)

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The Total Ship Computing Environment (TSCE) Segment provides all computing resources and associated software to the DDG-1000 System. It is a single computing environment for Ship, Combat and Support Systems. The TSCE provides a common middleware platform upon which all application/functional software can build and execute. The segment applications software, combined with TSCE hardware and software infrastructure represent the majority of the computing resources and associated software for the DDG-1000 System.

II. CURRENT FUNDING:

SHIPTYPE: DDG-1000	FY 07	FY09
Major Hardware	120,692	58,942
Tech. Eng. Serv.	9,500	4,703
TSCE Display Systems	14,730	7,684
Other Costs (NRE)	47,322	0
<b>TOTAL</b>	<b>192,244</b>	<b>71,329</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>CONTRACTOR</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>
FY 07	DDG-1000	Raytheon	2	60,346	2Q07
FY 09	DDG-1000	Raytheon	1	58,942	2Q09

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEADTIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 07	DDG-1000	1Q13	29-44	27	2Q07
FY 09	DDG-1000	1Q15	29-44	24	3Q09

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

DDG-1000

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(TY\$K)

P-35 EXHIBIT  
FY 2008/2009 PRESIDENT'S BUDGET  
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ITEM: Electro-Optical / Infrared (EO / IR)

I. DESCRIPTION/CHARACTERISTICS/PU The Electro-Optical / Infrared (EO/IR) Sensor Suite Element is composed of both the hardware and software components required to detect and range on specified targets and report track data to C2. The EO / IR sensor suite consists of five (5) gimballed EO sensors located on the cardinal faces of the deckhouse and associated electronics in Electronic Modular Enclosures (EMEs). Detect and Tracking Software components that provide the embedded control and generates tracks for the C2 system and Mine Like Object (MLO) Detection algorithm are also included.

II. CURRENT FUNDING:

SHIPTYPE: DDG-1000	FY 07	FY09
Major Hardware	25,703	12,941
Tech. Eng. Serv.	2,023	1,033
Other Costs (NRE)	27,812	0
<b>TOTAL</b>	<b>55,538</b>	<b>13,973</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>CONTRACTOR</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>
FY 07	DDG-1000	Raytheon	2	12,852	2Q07
FY 09	DDG-1000	Raytheon	1	12,941	2Q09

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEADTIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 07	DDG-1000	1Q13	43	26	3Q07
FY 09	DDG-1000	1Q15	43	24	3Q09

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

DDG-1000

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(TY\$K)

P-35 EXHIBIT  
FY 2008/2009 PRESIDENT'S BUDGET  
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ITEM: Identification Friend or Foe (IFF)

I. DESCRIPTION/CHARACTERISTICS/PU Identification Friend or Foe (IFF) sensor element supports the DDG-1000 Ship System segment in accomplishing Anti-Air Warfare (AAW) and Anti-Surface Warfare (ASUW) missions. The IFF Sensor Element is a cooperative "challenge and reply" systems that assists in the rapid identification, tracking and control of friendly platforms. IFF is comprised of three hardware components to include the Interrogator component, the Transponder component and the Electronically Scanned Antenna (ESA) component, as well as software.

II. CURRENT FUNDING:

SHIPTYPE: DDG-1000	FY 07	FY09
Major Hardware	11,850	5,787
Tech. Eng. Serv.	933	462
Other Costs (NRE)	8,624	0
TOTAL	21,406	6,249

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>CONTRACTOR</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>
FY 07	DDG-1000	Raytheon	2	5,925	2Q07
FY 09	DDG-1000	Raytheon	1	5,787	2Q09

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEADTIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 07	DDG-1000	1Q13	34	30	4Q07
FY 09	DDG-1000	1Q15	34	24	2Q10

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

DDG-1000

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (TY\$K)

P-35 EXHIBIT  
 FY 2008/2009 PRESIDENT'S BUDGET  
 February 2007

ITEM: Common Array Cooling System (CACS)

I. DESCRIPTION/CHARACTERISTICS/PU The Common Array Cooling System (CACS) provides liquid cooling for the Dual Band Radar (DBR) and External Communications (EXCOMMs) arrays. CACS is a distributed cooling system consisting of three Cooling Equipment Units (CEUs). Each CEU operates an independent coolant loop used to transport, monitor and control coolant flow to the DBR and EXCOMMs Equipment. CEUs consist of redundant pumps, a heat exchanger and filtration system. It is designed to provide liquid coolant to the DBR and EXCOMM equipment and dissipate heat to the ship-supplied chilled water.

II. CURRENT FUNDING:

SHIPTYPE: DDG-1000	FY 07	FY09
Major Hardware	6,791	3,419
Tech. Eng. Serv.	535	273
Other Costs (NRE)	6,212	0
TOTAL	13,537	3,692

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>CONTRACTOR</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>
FY 07	DDG-1000	Raytheon	2	3,395	2Q07
FY 09	DDG-1000	Raytheon	1	3,419	2Q09

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEADTIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 07	DDG-1000	1Q13	42-49	23	2Q07
FY 08					
FY 09	DDG-1000	1Q15	42-49	23	2Q09

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

DDG-1000

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(TY\$K)

P-35 EXHIBIT  
FY 2008/2009 PRESIDENT'S BUDGET  
February 2007

ITEM: EME

I. DESCRIPTION/CHARACTERISTICS/PL Electronic Modular Enclosures (EMEs) provide a higher level of integration for combat system equipment prior to delivery to the shipyard. These fully-tested assemblies provide protection to the Combat System equipment during construction as well as shock isolation and environmental. Each EME consists of a shock isolation system and an enclosure that provides Radio Frequency (RF) and environmental protection.

II. CURRENT FUNDING:

SHIPTYPE: DDG-1000	FY 07	FY09
Major Hardware	8,291	4,049
Tech. Eng. Serv.	653	323
Other Costs (NRE)	26,613	0
TOTAL	35,557	4,372

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>CONTRACTOR</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>
FY 07	DDG-1000	Raytheon	2	4,146	2Q07
FY 09	DDG-1000	Raytheon	1	4,049	2Q09

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEADTIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 07	DDG-1000	1Q13	See Note	See Note	See Note
FY 09	DDG-1000	1Q15	See Note	See Note	See Note

**Note:** EME's delivered with EXCOMMs and TSCE

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

DDG-1000

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(TY\$K)

P-35 EXHIBIT  
FY 2008/2009 PRESIDENT'S BUDGET  
February 2007

ITEM: Ship Control Systems (SCS)

I. DESCRIPTION/CHARACTERISTICS/PL The Flight 1 Ship Controls System (SCS) element is a system of hardware and software items that provides hierarchical and integrated ship control by the DDG-1000 crew. The SCS software architecture allows for various levels of automation for monitoring, control, reporting and configuration of SCS equipment and operations to support mission and low manning concepts. From workstation positions on the ship bridge or in the ship mission centers, the SCS coordinates, controls and monitors the navigation, hull, electric plant, machinery plant and damage control functions on the DDG-1000.

II. CURRENT FUNDING:

SHIPTYPE: DDG-1000	FY 07	FY09
Major Hardware	53,525	26,140
Tech. Eng. Serv.	4,213	2,086
Other Costs (NRE)	124	0
TOTAL	57,862	28,225

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>CONTRACTOR</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>
FY 07	DDG-1000	Raytheon	2	26,762	2Q07
FY 09	DDG-1000	Raytheon	1	26,140	2Q09

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEADTIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 07	DDG-1000	1Q13	24-30	30	2Q07
FY 09	DDG-1000	1Q15	24-30	24	2Q09

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (TY\$K)

P-35 EXHIBIT  
 FY 2008/2009 PRESIDENT'S BUDGET  
 February 2007

ITEM: Main Gas Turbine Generator Sets (MTGs) - 35.2 MW gas turbine generator set

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The Gas Turbine Generator Set (MTG) shall be capable of being utilized as the prime power source on the DDG-1000 Destroyer for electrical power applications (propulsion, ship services, and combat systems loads). The DDG-1000 baseline includes two MTGs.  
 The minimum output power from each MTG shall be 35.25MWm, at 3600 rpm power turbine speed at the standard rating conditions defined in ABS NVR.

II. CURRENT FUNDING:

SHIPTYPE: DDG-1000	FY 07	FY09
Major Hardware	77,703	40,923
Tech. Eng. Serv.	2,776	1,443
Other Costs (NRE)	4,638	0
TOTAL	85,117	42,367

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>CONTRACTOR</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>
FY 07	DDG-1000	TBD	4	19,426	2Q07
FY 09	DDG-1000	TBD	2	20,462	2Q09

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEADTIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 07	DDG-1000	1Q13	25	24	1Q09
FY 09	DDG-1000	1Q15	37	24	1Q10

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

DDG-1000

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(TY\$K)

P-35 EXHIBIT  
FY 2008/2009 PRESIDENT'S BUI  
February 2007

ITEM: Advanced Gun System (AGS)

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The Advanced Gun System is a fully automated, single barrel, 155mm, vertically loaded, stabilized gun mount that is capable of storing, initializing/programming, loading and firing projectiles and propelling charges. Its primary mission is Land Attack Warfare in support of ground and expeditionary forces beyond the Line of Sight in the DDG-1000 system's littoral engagement area where precise, rapid-response, high-volume, long-range fire support is required. Each DDG-1000 will carry two complete AGS systems - Mount 61 and 62. The above deck configurations are identical but each has a slightly different below deck configuration. Presently, the only projectile used in AGS is the Long Range Land Attack Projectile (LRLAP). It is a long-range, GPS guided round that delivers a unitary High Explosive (HE) payload at a controlled burst height above a target or during contact with a range of 20 to 83nm.

II. CURRENT FUNDING:

SHIPTYPE: DDG-1000	FY 07	FY09
Major Hardware	300,000	155,314
Tech. Eng. Serv.	19,338	10,212
Other Costs (NRE)	94,200	0
3rd Ship Battle Spares	0	70,630
<b>TOTAL</b>	<b>413,538</b>	<b>236,156</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>CONTRACTOR</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>
FY 07	DDG-1000	BAE	4	75,000	2Q07
FY 09	DDG-1000	BAE	2	77,657	2Q09

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEADTIME (MTHs)</u>	<u>REQUIRED AWARD DAT</u>
FY 07	DDG-1000	1Q13	24	47	2Q07
FY 09	DDG-1000	1Q15	24	47	2Q09

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

DDG-1000

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(TY\$K)

P-35 EXHIBIT  
FY 2008/2009 PRESIDENT'S BUI  
February 2007

ITEM: Vertical Launching System (VLS) MK 57

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The MK 57 VLS is a general purpose, operationally unmanned launching system capable of stowing, preparing, and launching missiles in support of DDG-1000 mission areas including: land attack warfare, integrated air and surface dominance, and integrated undersea dominance. The MK57 VLS provides the capability for rapid launch of missiles into a 360-degree hemispherical volume above and about the ship. The encanistered missiles are stowed within the launching systems below-deck cells. DDG-1000 will have 80 total cells grouped into 20 four cell modules. Flight 1 missiles to be carried include: Enhanced SeaSparrow Missile (ESSM), Standard Missile-2 (SM-2) Blk III, Tomahawk Land Attack Missile (TLAM) Blk III/IV, and Vertical Launch Anti-Submarine Rocket (VLA).

II. CURRENT FUNDING:

SHIPTYPE: DDG-1000	FY 07	FY09
Major Hardware	116,219	56,758
Tech. Eng. Serv.	7,491	3,732
Other Costs (NRE)	70,870	0
TOTAL	194,581	60,490

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>CONTRACTOR</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>
FY 07	DDG-1000	Raytheon	40 4-cell modules	14,527	2Q07
FY 09	DDG-1000	Raytheon	20 4-cell modules	14,189	2Q09

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEADTIME (MTHs)</u>	<u>REQUIRED AWARD DAT</u>
FY 07	DDG-1000	1Q13	24-30	30	2Q08
FY 09	DDG-1000	1Q15	24-30	24	3Q10

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

DDG-1000

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(TY\$K)

P-35 EXHIBIT  
FY 2008/2009 PRESIDENT'S BUDGET  
February 2007

ITEM: Close-In Gun System (CIGS)

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The Close-In Gun System (CIGS) is a modification of a fully developed system fielded in Foreign Navys and selected through comprehensive trade study process. The CIGS supports the DDG-1000 system in achieving Integrated Air and Surface Dominance with the capability to neutralize hostile surface vessels and aircraft at short ranges. CIGS also supports the Military Operations Other than War (MOOTW) missions, such as performing maritime interdiction, conducting maritime law enforcement, and supporting hostage rescue. Two (2) CIGS will be mounted on the aft end of the hanger. The MK 110 57mm gun fires salvos at 220 rounds/minute from a dual compartment magazine. The standard ammunition is the Bofors 6-mode Prefragmented, Programmable, Proximity fuzed (3P) ammunition which provides range of up to 14.9km with fuzing options allowing three proximity modes as well as settings for time, impact, and armor piercing modes.

II. CURRENT FUNDING:

SHIPTYPE: DDG-1000	FY 07	FY09
Major Hardware	45,693	23,245
Tech. Eng. Serv.	2,945	1,528
Other Costs (NRE)	26,425	0
<b>TOTAL</b>	<b>75,064</b>	<b>24,774</b>

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>CONTRACTOR</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>
FY 07	DDG-1000	BAE	4	11,423	2Q07
FY 09	DDG-1000	BAE	2	11,623	2Q09

IV. DELIVERY DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEADTIME (MTHs)</u>	<u>REQUIRED AWARD DATE</u>
FY 07	DDG-1000	1Q13	27	30	2Q08
FY 09	DDG-1002	1Q15	27	24	3Q10

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A





Exhibit P-10 Advance Procurement Requirements Analysis (Page 1 - Funding)							Date: February 2007						
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number 211900							P-1 Line Item Nomenclature FY09 DDG 1000						
Weapon System / Platform Basic Construction - Shipbuilding				First System (BY2+1) Award Date Jan 09			First System (BY2+1) Completion Date Dec 14						
(\$ in Millions)													
	PLT	When Req'd	Prior Years	PY FY2006	CY FY2007	BY1 FY2008	BY2 FY2009	BY2+1 FY2010	BY2+2 FY2011	BY2+3 FY2012	BY2+4 FY2013	To Complete	Total
<b>End Item Qty</b>													
Plans	Various	Various											
Basic	Various	Various											
HM&E	Various	Various				49.6						0.0	49.6
Electronics	Various	Various				91.6						0.0	91.6
Ordnance	Various	Various				9.7						0.0	9.7
<b>Total Advance Proc</b>						<b>150.9</b>						<b>0.0</b>	<b>150.9</b>
Description: This Advance Procurement funding is for the FY09 ship. <b>Advance Procurement (AP)</b> funding is required to procure material to meet equipment in-yard need dates to maintain ship construction schedules. Funding provides for LLTM procurement for AGS (Ordnance), EXCOMMs to support testing and integration at Wallops Island (Electronics), and IPS equipment to support testing and integration at Philadelphia Land Based Test Site.													



Exhibit P-10 Advance Procurement Requirements Analysis (Page 1 - Funding)							Date: February 2007						
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number 211900							P-1 Line Item Nomenclature FY10 DDG 1000						
Weapon System / Platform Basic Construction - Shipbuilding				First System (BY2+1) Award Date Jan10			First System (BY2+1) Completion Date Jul 15						
(\$ in Millions)													
	PLT	When Req'd	Prior Years	PY FY2006	CY FY2007	BY1 FY2008	BY2 FY2009	BY2+1 FY2010	BY2+2 FY2011	BY2+3 FY2012	BY2+4 FY2013	To Complete	Total
<b>End Item Qty</b>													
Plans	Various	Various											
Basic	Various	Various											
HM&E	Various	Various					51.0						51.0
Electronics	Various	Various											
Ordnance	Various	Various											
<b>Total Advance Proc</b>							<b>51.0</b>					<b>0.0</b>	<b>51.0</b>
Description: This Advance Procurement funding is for the FY10 ship. <b>Advance Procurement (AP)</b> funding is required to procure material to meet equipment in-yard need dates to maintain ship construction schedules. Detailed funding breakout is TBD.													



BUDGET ITEM JUSTIFICATION (P-40)  
FY 2008/2009 President's Budget

DATE: February 2007

Appropriation/Budget Activity

Shipbuilding and Conversion, Navy  
BA#2 OTHER WARSHIPS

Item Nomenclature:- DDG Guided Missile Destroyer 212200

Total Funding By Ship	PRIOR YEARS	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY13	To Complete	TOTAL PROGRAM
Quantity	62	0	0	0	0	0	0	0	0	0	62
End Cost (\$M)	56,751.5	147.4 (1)	354.3 (1)	78.1 (1)	0.0	0.0	0.0	0.0	0.0	0.0	57,331.3
Less A.P.	(1,324.7)	0.0	0.0	0.0							(1,324.7)
Less FY96 Funding for MYP	(99.3)	0.0	0.0	0.0							(99.3)
Less FY97 Funding for MYP	(63.1)	0.0	0.0	0.0							(63.1)
Less Cost to Complete	(731.4)	0.0	0.0	0.0							(731.4)
Less Escalation	(48.2)	0.0	0.0	0.0							(48.2)
Less FY00 Transfer	(32.5)	0.0	0.0	0.0							(32.5)
Less FY01 Supplemental	(151.0)	0.0	0.0	0.0							(151.0)
Less FY02 Transfer Funds (Sec 8130)	(17.5)	0.0	0.0	0.0							(17.5)
Less FY03 Transfer	(13.3)	0.0	0.0	0.0							(13.3)
Less FY06 Hurricane Katrina Supplement	(213.9)	0.0	0.0	0.0							(213.9)
F.F. TOA	54,056.6	147.4	354.3	78.1	0.0	0.0	0.0	0.0	0.0	0.0	54,636.4
PLUS A.P.	1,324.7	0.0	0.0	0.0							1,324.7
PLUS F.F. FOR MYP	162.4	0.0	0.0	0.0							162.4
PLUS Cost to Complete	731.4	0.0	0.0	0.0							731.4
TOA Controls	56,275.1	147.4	354.3	78.1	0.0	0.0	0.0	0.0	0.0	0.0	56,854.9
PLUS FY00 Transfer	32.5	0.0	0.0	0.0							32.5
PLUS FY01 Supplemental	151.0	0.0	0.0	0.0							151.0
PLUS FY02 Transfer Funds (Sec 8130)	17.5	0.0	0.0	0.0							17.5
PLUS FY03 Transfer	13.3	0.0	0.0	0.0							13.3
PLUS FY06 Hurricane Katrina Supplement	0.0	213.9	0.0	0.0							213.9
PLUS Outfitting/ Post Delivery	1,552.0	140.5	118.9	151.0	109.3	116.8	65.9	2.8	0.0	0.0	2,257.2
PLUS FY06 Outfitting Hurricane Katrina Supplement	0.0	7.4	0.0	0.0							7.4
PLUS Escalation	48.2	0.0	0.0	0.0							48.2
Total	58,089.6	509.2	473.2	229.1	109.3	116.8	65.9	2.8	0.0	0.0	59,595.9
Unit Cost (Avg. End Cost)	915.3										924.7

MISSION: DDG 51 will be able to operate offensively and defensively, independently or as units of Carrier Battle Groups and Surface Action Groups, in support of Marine Amphibious Task Forces in multithreat environments that include air, surface and subsurface threats. These ships will respond to Low Intensity Conflict/Coastal and Littoral Offshore Warfare (LIC/CALOW) scenarios as well as open ocean conflict providing or augmenting power projection and forward presence requirements, and escort operations at Sea.

Characteristics:	Production Status:	0401	0402	0403	0501	0502	0503
<u>Hull</u>	FLIGHT IIA						
Length overall	471'						
Beam	59'						
Displacement	9217 TONS						
		a) Award to Delivery	82	79	86	94	93
		b) Construction Start to Delivery	41	40	40	38	38
		Commissioning Date	TBD	TBD	TBD	TBD	TBD
<u>Armament</u>							
AEGIS WEAPON SYSTEM (SPY-1D(V))							
VLS MK41/SM-2							
5"62 Gun							
Tomahawk (TTWCS)							
MK 32 MOD 7 Torpedo Tubes							
CIWS / ESSM							
CEC							
(1) Reflects cost associated with the completion of the program.							

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P-5 EXHIBIT  
FY 2008/2009 President's Budget  
February 2007

APPROPRIATION: SHIPBUILDING AND  
CONVERSION, NAVY

BUDGET ACTIVITY: 2                      SUBHEAD: A224  
OTHER WARSHIPS

<u>ELEMENT OF COST</u>	<u>FY 2006</u> <u>TOT COST</u>	<u>FY 2007</u> <u>TOT COST</u>	<u>FY 2008</u> <u>TOT COST</u>
PLAN COSTS	30,000	106,130	12,169
BASIC CONSTRUCTION	0	16,463	43,218
CHANGE ORDERS	0	0	0
ELECTRONICS	0	0	0
HM&E	0	0	0
OTHER COST	20,757	56,984	0
ORDNANCE	96,690	174,770	22,691
ESCALATION	0	0	0
<b>TOTAL SHIP ESTIMATE</b>	<b>147,447</b> <i>_A/</i>	<b>354,347</b> <i>_A/</i>	<b>78,078</b> <i>_A/</i>
<b>NET P-1 LINE ITEM (REQMT)</b>	<b>147,447</b>	<b>354,347</b>	<b>78,078</b>

A/ Reflects cost associated with the completion of the program.

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P-5 EXHIBIT

FY 2008/2009 President's Budget

February 2007

APPROPRIATION: SHIPBUILDING AND  
CONVERSION, NAVY

BUDGET ACTIVITY: 2  
OTHER WARSHIPS

SUBHEAD: A224

ELEMENT OF COST	FY 2002		FY 2003		FY 2004		FY 2005	
	QTY	TOT COST						
PLAN COSTS	3	83,939	2	88,973	3	76,404	3	79,165
BASIC CONSTRUCTION		1,583,162		1,035,054		1,616,290		1,691,823
CHANGE ORDERS		76,110		49,334		79,948		83,156
ELECTRONICS		505,358		350,522		462,050		494,563
HM&E		50,028		37,639		47,990		48,714
OTHER COST		54,474		50,162		56,066		57,064
ORDNANCE		974,120		835,486		999,588		1,062,499
<b>TOTAL SHIP ESTIMATE</b>		<b>3,327,191</b>		<b>2,447,170</b>		<b>3,338,336</b>		<b>3,516,984</b>
		<i>_A/ B/</i>		<i>_A/</i>		<i>_A/</i>		<i>_A/</i>
LESS: ADVANCE PROCUREMENT FY1998		2,394						
LESS: ADVANCE PROCUREMENT FY1999		979		3,687		2,708		
LESS: ADVANCE PROCUREMENT FY2001		244,960		70,800		77,000		60,000
LESS: ADVANCE PROCUREMENT FY2002				64,442		50,000		
LESS: COMPLETION OF PRIOR YEAR FY 2003		98,000						
LESS: HURRICANE KATRINA SUPPLEMENT FY06		25,800		21,200		14,100		26,900
LESS: PENDING HURRICANE KATRINA SUPPLEMENT FY06		3,300		5,300		1,500		1,800
<b>NET P-1 LINE ITEM</b>	<b>3</b>	<b>2,951,758</b>	<b>2</b>	<b>2,281,741</b>	<b>3</b>	<b>3,193,028</b>	<b>3</b>	<b>3,428,284</b>

A/ Reflects pricing for a 10 ship MYP, FY02-05.

B/ The additional ship in FY02, the option ship from the FY98-FY01 MYP, was awarded to NGSS and transferred to General Dynamics (BIW) in accordance with the LPD/DDG MOU.

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P-5B EXHIBIT  
FY 2008/2009 President's Budget  
February 2007

**SHIPBUILDING AND CONVERSION, NAVY**  
**Analysis of Ship Cost Estimates - Basic/Escalation**

Fiscal Year: 2008 Ship Type: DDG

<b><u>I. Design Schedule</u></b>	<b><u>Start / Issue</u></b>	<b><u>Complete / Issue</u></b>	<b><u>Reissue</u></b>	<b><u>Complete / Response</u></b>
Issue date for TLR	8/85			
Issue date for TLS				
Preliminary Design	2/81	2/83		
Contract Design	3/83	3/84		
Request for Proposals				
Design Agent	BIW			

**II. Classification of Cost Estimate**

Class C Budget Estimate

<b><u>III. Basic Construction/Conversion</u></b>	<b><u>FY 2002-2005</u></b>	<b><u>FY 2006</u></b>	<b><u>FY2007</u></b>	<b><u>FY2008</u></b>
a. Award Date	09/02	N/A	N/A	N/A
b. Contract Type	Multiyear procurement	N/A	N/A	N/A
	Fixed Price Incentive			

**IV. Escalation**

Base Date  
Escalation Target Cost  
Escalation Termination Date  
Escalation Requirement Shipbuilding Contracts are forward priced.  
Labor/Material Split  
Allowable Overhead Rate

**V. Other Basic (Reserves/Miscellaneous)**

N/A

UNCLASSIFIED  
CLASSIFICATION

UNCLASSIFIED  
CLASSIFICATION

P-27 EXHIBIT  
FY 2008/2009 President's Budget  
February 2007

**SHIPBUILDING AND CONVERSION, NAVY  
SHIP PRODUCTION SCHEDULE**

<b>SHIP TYPE</b>	<b>SHIPBUILDER</b>	<b>FISCAL YEAR AUTHORIZED</b>	<b>CONTRACT AWARD</b>	<b>START OF CONSTRUCTION</b>	<b>DELIVERY DATE</b>
DDG 102	BIW	02	Jul-02	Feb-04	May-07
DDG 103	NGSS	02	Sep-02	May-04	Aug-08
DDG 104	BIW	02	Sep-02	Oct-04	Jan-08
DDG 105	NGSS	03	Sep-02	Apr-05	Dec-08
DDG 106	BIW	03	Sep-02	May-05	Aug-08
DDG 107	NGSS	04	Sep-02	Feb-06	Jul-09
DDG 108	BIW	04	Sep-02	Dec-05	Apr-09
DDG 109	BIW	04	Sep-02	Jul-06	Nov-09
DDG 110	NGSS	05	Sep-02	May-07	Jul-10
DDG 111	BIW	05	Sep-02	Apr-07	Jun-10
DDG 112	BIW	05	Sep-02	Jan-08	Feb-11

Northrop Grumman (NGSS) ship delivery dates reflect proposed schedule changes as a result of Hurricane Katrina and the DDG 103 fire and are under review.

UNCLASSIFIED  
CLASSIFICATION

P-8A EXHIBIT  
FY 2008/2009 President's Budget  
February 2007

Ship Type: DDG-51 AEGIS DESTROYERS

	FY 06		FY 07		FY 08	
	<u>QTY</u>	<u>TOT COST</u>	<u>QTY</u>	<u>TOT COST</u>	<u>QTY</u>	<u>TOT COST</u>
<b>ORDNANCE EQUIPMENT</b>						
<b>a. P-35 Items</b>						
1. AEGIS WEAPON SYSTEM (MK-7)	0	54,483		108,621		18,153
2. VLS MK 41	0					4,538
<b>Subtotal</b>		<b>54,483</b>		<b>108,621</b>		<b>22,691</b>
<b>b. Major Items</b>						
<b>Subtotal</b>		<b>0</b>		<b>0</b>		<b>0</b>
<b>c. Misc. Ordnance</b>		42,207		66,149		
<b>TOTAL ORDNANCE</b>		<b>96,690</b> _A/		<b>174,770</b> _A/		<b>22,691</b> _A/

A/ Reflects cost associated with the completion of the program.

UNCLASSIFIED  
CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET (P-40)  
FY 2008/2009 PRESIDENT'S BUDGET

DATE: February 2007

Appropriation/Budget Activity

Shipbuilding and Conversion, Navy  
BA #2 OTHER WARSHIPS

'Item Nomenclature:- DDG 51 Modernization 212300

Total Funding By Ship	PRIOR YEARS	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	To Complete	TOTAL PROGRAM
End Cost (\$M)	49.8	49.3								99.1
F.F. TOA	49.8	49.3								99.1
Total	49.8	49.3								99.1

MISSION: The DDG 51 Modernization Program is a collective, significant, integrated advancement in the DDG 51 Class Combat and H,M&E Systems to keep the DDG 51 portion of the AEGIS-equipped Fleet an integral part of the Navy's SEAPOWERT 21 Plan through 2047. The SCN Modernization Program will incorporate HM&E upgrades in new Construction of DDG 51 Class ship: to leverage development, engineering, and test to reduce risk on the Modernization backfit Program. This SCN Modernization Program will achieve overall system improvements while significantly reducing ship manning and total ownership costs.

Modernization Upgrades

- Change Fiber Optic DMS to GIG-E Fiber Optic DMS
- Machinery Control System/Damage Control System Upgrades
- H,M&E Systems Automation
- Digital Video Surveillance System

UNCLASSIFIED  
CLASSIFICATION

P-5 EXHIBIT  
FY 2008/2009 PRESIDENT'S BUDGET  
FEBRUARY 2007

APPROPRIATION: SHIPBUILDING AND  
CONVERSION, NAVY

BUDGET ACTIVITY: 2  
OTHER WARSHIPS

SUBHEAD: 1225

<b>ELEMENT OF COST</b>	<b>FY 2006 TOT COST</b>	<b>FY 2007 TOT COST</b>	<b>FY 2008 TOT COST</b>	<b>FY 2009 TOT COST</b>
PLAN COSTS	21,240			
BASIC CONSTRUCTION	8,000			
CHANGE ORDERS	10,079			
ELECTRONICS	0			
HM&E	10,000			
OTHER COST	0			
ORDNANCE	0			
<b>TOTAL SHIP ESTIMATE</b>	<b>49,319</b>			
<b>NET P-1 LINE ITEM (REQMT)</b>	<b>49,319</b>			

UNCLASSIFIED  
CLASSIFICATION

P-8A EXHIBIT  
FY 2008/2009 PRESIDENT'S BUDGET  
FEBRUARY 2007

Ship Type: DDG-51 AEGIS DESTROYER

HM&E EQUIPMENT	FY 06		FY 07		FY 08	
	<u>QTY</u>	<u>TOT COST</u>	<u>QTY</u>	<u>TOT COST</u>	<u>QTY</u>	<u>TOT COST</u>
a. P-35 Items						
b. Major Items						
c. Misc. HM&E		10,000				
TOTAL HM&E		10,000		0		0

UNCLASSIFIED  
CLASSIFICATION

CLASSIFICATION: UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET (P-40)							DATE:				
FY 2008 Presidents Budget (\$M)							February 2007				
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE: LCS								
BA 2 OTHER SHIPS			LCS (Seaframe)/ 212700								
	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Cost to Complete	TOTAL PROGRAM
QUANTITY	0	2	2	3	6	6	6	6	5	17	53
End Cost	0.0	538.8	518.5	910.5	1,767.1	1,761.4	1,803.1	1,856.5	1,608.8	5,881.9	16,646.6
Less OMNIBUS	0.0	66.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.0
Less Hurricane Supplemental	0.0	38.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.8
Full Funding TOA	0.0	434.0	518.5	910.5	1,767.1	1,761.4	1,803.1	1,856.5	1,608.8	5,881.9	16,541.8
Plus Advance Procurement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Obligational Authority	0.0	434.0	518.5	910.5	1,767.1	1,761.4	1,803.1	1,856.5	1,608.8	5,881.9	16,541.8
Plus Outfitting and Post Delivery	0.0	0.0	6.2	13.3	51.9	126.8	110.5	128.0	97.8	140.0	674.5
Total	0.0	434.0	524.7	923.8	1,819.0	1,888.2	1,913.6	1,984.5	1,706.6	6,021.9	17,216.3
Unit Cost (Ave. End Cost)	0.0	269.4	259.3	303.5	294.5	293.6	300.5	309.4	321.8	346.0	314.1

\*Note: FY2006 does not include \$66M OMNIBUS funding or \$38.8M Hurricane Supplemental funding .

Mission: The LCS is a fast, agile, and stealthy surface combatant capable of operating in support of anti-access missions against asymmetric threats in the littorals. Primary access-focused missions include prosecution of small boats, mine counter-measures, littoral anti-submarine warfare (ASW). Inherent capabilities include: intelligence, surveillance and reconnaissance, homeland defense, Special Operating Forces (SOF) support and logistic support for movement of personnel and supplies.

	FY06		FY07		FY08			FY09			
<u>Production Status:</u>	<u>LCS 3</u>	<u>LCS 4</u>	<u>LCS 5</u>	<u>LCS 6</u>	<u>LCS 7</u>	<u>LCS 8</u>	<u>LCS 9</u>	<u>LCS 10</u>	<u>LCS 11</u>	<u>LCS 12/13</u>	<u>LCS 14/15</u>
Contract Award Date	6/06	12/06	6/07	6/07	10/07	10/07	10/07	10/08	10/08	10/08	10/08
Months to Completion											
a) Contract Award to Delivery	34 months	30 months	29 months	29 months	29 months	29 months	32 months	29 months	29 months	32 months	35 months
b) Construction Start to Delivery	24 months	24 months	24 months	24 months							
Delivery Date	4/09	6/09	11/09	11/09	3/10	3/10	6/10	3/11	3/11	6/11	9/11
Completion of Fitting Out	7/09	8/09	2/10	2/10	6/10	6/10	9/10	6/11	7/11	9/11	12/11
Obligation Work Limiting Date	6/10	7/10	1/11	1/11	5/11	5/11	8/11	5/12	6/12	8/12	11/12

<u>Characteristics:</u>	<u>LM</u>	<u>GD</u>	<u>Armament:</u>	<u>Sensors:</u>
Overall Length:	115m	127m	Medium Cal. Gun	Radar (Air and Surface)
Max Beam:	18m	30m	Small Cal. Guns	ESM
Displacement:	3089 mt	2842 mt	Missile Launcher	EO/IR

P-5 EXHIBIT  
 FY 08 Presidents Budget  
 BUDGET ESTIMATES  
 February-07

UNCLASSIFIED  
 CLASSIFICATION

APPROPRIATION: SHIPBUILDING AND WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)  
 CONVERSION

BUDGET ACTIVITY: 2 P-1 ITEM NOMENCLATURE: LCS SUBHEAD: 1281  
 OTHER WARSHIPS Littoral Combat Ship  
 BLI: 212700

ELEMENT OF COST	FY 2006		FY 2007		FY 2008		FY 2009	
	QTY	TOT COST						
PLAN COSTS	2	0	2	10,000	3	45,000	6	20,000
BASIC CONSTRUCTION		504,000		440,302		751,531		1,560,348
CHANGE ORDERS		9,642		23,100		37,600		78,000
ELECTRONICS		21,365		21,070		35,189		66,220
OTHER COST		3,800		24,000		41,162		42,544
TOTAL SHIP ESTIMATE		538,807		518,472		910,482		1,767,112
Less Hurricane Supplemental		38,800						
Less OMNIBUS Request		66,000						
NET P-1 LINE ITEM		434,007		518,472		910,482		1,767,112

UNCLASSIFIED  
CLASSIFICATION

P-5B EXHIBIT  
FY 08 Presidents Budget  
February-07

**SHIPBUILDING AND CONVERSION, NAV**  
**Analysis of Ship Cost Estimates - Basic/Escalation**

Fiscal Year: 2006

Ship Type: Littoral Combat Ship

**I. Design Schedule**

	<u>Start / Issue</u>	<u>Complete / Issue</u>	<u>Start / Issue</u>	<u>Complete / Issue</u>	<u>Reissue</u>	<u>Complete / Response</u>
Issue Date for TLR	N/A	N/A	N/A	N/A		
Issue Date for TLS	N/A	N/A	N/A	N/A		
Preliminary Design	7/03	12/03	7/03	12/03		
Contract Design	5/04	12/04	5/04	10/05		
Detail Design	12/04	6/07	10/05	10/07		
Request for Proposals	N/A	N/A	N/A	N/A		
Design Agent	Lockheed Martin		General Dynamics			

**II. Classification of Cost Estimate**

FY06 - Class X Budget Estimate

FY07 & Out - Class C Budget Estimate

**III. Basic Construction**

	<u>2006</u>	<u>2006</u>	<u>2007</u>	<u>2007</u>	<u>2008</u>	<u>2008</u>	<u>2008</u>	<u>2009</u>	<u>2009</u>	<u>2009</u>	<u>2009</u>	<u>2009</u>
a. Assumed Award Date	06/06	12/06	06/07	06/07	10/07	10/07	10/07	10/08	10/08	10/08	10/08	10/08
b. Contract Type	AF/IF	AF/IF	TBD									

**IV. Escalation**

Base Date  
Escalation Target Cost  
Escalation Termination Date  
Escalation Requirement  
Labor/Material Split  
Allowable Overhead Rate

**V. Other Basic (Reserves/Miscellaneous)**

N/A

UNCLASSIFIED  
CLASSIFICATION

P-8A EXHIBIT  
FY 08 Presidents Budget  
February-07

Ship Type: Littoral Combat Ship

	QTY	FY 06		QTY	FY 07		QTY	FY 08		QTY	FY 09	
		TOTAL COST			TOTAL COST			TOTAL COST			TOTAL COST	
		Lockheed Martin 602	General Dynamics 603		Lockheed Martin 701	General Dynamics 702		Lockheed Martin 801/803	General Dynamics 802		Lockheed Martin 902/904/906	General Dynamics 901/903/905
<b>Electronics</b>												
<b>a. P-35 Items</b>												
None												
<b>Subtotal</b>		<b>0</b>			<b>0</b>			<b>0</b>			<b>0</b>	
<b>b. Major Items (Lockheed Martin)</b>												
1 AN/SSN-6D (V)4 NAVSSI Block 4	1	2,080	-	1	2,122	-	2	4,329	-	3	6,623	-
2 AN/WSN-7 RLGN CDU	1	605	-	1	617	-	2	1,259	-	3	1,926	-
3 EKMS/CRYPTO System	2	444	438	2	453	447	3	924	456	6	1,414	1,395
4 CDLMS w/CDLMS Software Version 3.X	1	1,037	-	1	1,058	-	2	2,158	-	3	3,302	-
5 AN/URC-141 (C) MIDS on Ship (MOS)	2	2,099	1,731	2	2,141	1,766	3	4,369	1,801	6	6,685	5,511
6 AN/SYQ-26(V)4 NAVMACS II/SMS	1	279	-	1	285	-	2	581	-	3	889	-
7 NAVMACSII/SMS, (AN/SYQ-26(V)3)	1	-	401	1	-	409	1	-	417	3	-	1,276
8 Automated Digital Network System (ADNS) AN/USQ-144H(V) (LM GFI Only)	2	72	848	2	73	865	3	149	882	6	228	2,699
9 AN/SSR-1 Fleet Broadcast	2	211	50	2	215	51	3	439	52	6	672	159
10 AN/WSC-6E(V)9 Super High Frequency (SHF)	2	3,000	3,000	2	2,094	2,094	3	4,272	2,136	6	6,536	6,536
11 AN/USQ-172(V)5 GCCS-M/Compose	2	2,125	628	2	2,170	641	3	4,423	654	6	6,767	2,001
12 C4I Schedule 'B' Services	1	188	-	1	192	-	2	392	-	3	600	-
13 Navy Tactical Command Support System (NTCSS)	2	314	62	2	320	63	3	653	64	6	999	196
14 Navy Integrated Tactical Environmental Subsystem (NITES) Latest Fleet Release Software	1	-	125	1	-	128			131	3	-	401
15 Chemical/Biological/Radiological Warfare Equipment	2	81	81	2	83	83	3	169	85	6	259	260
16 AN/PDR-65A Radiac Set	2	3	3	2	3	3	3	6	3	6	9	9
17 VLA Lighting	1	161	-	1	164	-	2	335	-	3	513	-
18 Wave Off Light System (WOLS)	2	13	77	2	13	79	3	27	81	6	41	248
19 Stabilized Glide Slope Indicator (SGSI)	2	195	296	2	199	302	3	706	308	6	1,080	942
20 Flight Deck Status and Signaling System (FDSSS)	2	76	144	2	78	147	3	159	150	6	243	459
21 UCARS-V2, Unmanned Common Automatic Recovery System - Version 2 (* Partial funding)	1	498 *	-	2	856	856	3	1,746	873	6	2,671	2,671
<b>Subtotal</b>		<b>13,481</b>	<b>7,884</b>		<b>13,136</b>	<b>7,934</b>		<b>27,096</b>	<b>8,093</b>		<b>41,457</b>	<b>24,763</b>
<b>c. Misc. Other</b>		-			-			-			-	
<b>TOTAL ELECTRONICS</b>		<b>21,365</b>			<b>21,070</b>			<b>35,189</b>			<b>66,220</b>	

UNCLASSIFIED  
CLASSIFICATION

P-8A EXHIBIT  
FY 08 Presidents Budget  
February-07

Ship Type: Littoral Combat Ship

	<u>FY 06</u>		<u>FY 07</u>		<u>FY 08</u>		<u>FY 09</u>	
	<u>QTY</u>	<u>TOT COST</u>						
<b>Other</b>								
<b>a. P-35 Items</b>								
None								
<b>Subtotal</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>
<b>b. Major Items</b>								
1 Engineering Services		-		14,000		23,933		24,820
2 ILS Support		-		4,000		6,974		7,174
3 Management Support		3,800		6,000		10,255		10,550
<b>Subtotal</b>		<b>3,800</b>		<b>24,000</b>		<b>41,162</b>		<b>42,544</b>
<b>c. Misc. Other</b>		-		-		-		-
<b>TOTAL OTHER</b>		<b>3,800</b>		<b>24,000</b>		<b>41,162</b>		<b>42,544</b>

*UNCLASSIFIED*  
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P-27 EXHIBIT  
FY 08 Presidents Budget  
Budget Estimates  
February-07

**SHIPBUILDING AND CONVERSION, NAVY  
SHIP PRODUCTION SCHEDULE**

<b>SHIP TYPE</b>	<b>SHIPBUILDER</b>	<b>FISCAL YEAR AUTHORIZED</b>	<b>CONTRACT AWARD</b>	<b>START OF CONSTRUCTION</b>	<b>DELIVERY DATE</b>
LCS 3	Lockheed Martin	06	Jun-06	Apr-07	Apr-09
LCS 4	General Dynamics	06	Dec-06	Jun-07	Jun-09
LCS 5	TBD	07	Jun-07	Nov-07	Nov-09
LCS 6	TBD	07	Jun-07	Nov-07	Nov-09
LCS 7	TBD	08	Oct-07	Mar-08	Mar-10
LCS 8	TBD	08	Oct-07	Mar-08	Mar-10
LCS 9	TBD	08	Oct-07	Jun-08	Jun-10
LCS 10	TBD	09	Oct-08	Mar-09	Mar-11
LCS 11	TBD	09	Oct-08	Mar-09	Mar-11
LCS 12	TBD	09	Oct-08	Jun-09	Jun-11
LCS 13	TBD	09	Oct-08	Jun-09	Jun-11
LCS 14	TBD	09	Oct-08	Sep-09	Sep-11
LCS 15	TBD	09	Oct-08	Sep-09	Sep-11
LCS 16	TBD	10	Oct-09	Mar-10	Mar-12
LCS 17	TBD	10	Oct-09	Mar-10	Mar-12
LCS 18	TBD	10	Oct-09	Jun-10	Jun-12
LCS 19	TBD	10	Oct-09	Jun-10	Jun-12
LCS 20	TBD	10	Oct-09	Sep-10	Sep-12
LCS 21	TBD	10	Oct-09	Sep-10	Sep-12
LCS 22	TBD	11	Oct-10	Mar-11	Mar-13
LCS 23	TBD	11	Oct-10	Mar-11	Mar-13
LCS 24	TBD	11	Oct-10	Jun-11	Jun-13
LCS 25	TBD	11	Oct-10	Jun-11	Jun-13
LCS 26	TBD	11	Oct-10	Sep-11	Sep-13
LCS 27	TBD	11	Oct-10	Sep-11	Sep-13
LCS 28	TBD	12	Oct-11	Mar-12	Mar-14
LCS 29	TBD	12	Oct-11	Mar-12	Mar-14
LCS 30	TBD	12	Oct-11	Jun-12	Jun-14
LCS 31	TBD	12	Oct-11	Jun-12	Jun-14
LCS 32	TBD	12	Oct-11	Sep-12	Sep-14
LCS 33	TBD	12	Oct-11	Sep-12	Sep-14
LCS 34	TBD	13	Oct-12	Mar-13	Mar-15
LCS 35	TBD	13	Oct-12	Jun-13	Jun-15
LCS 36	TBD	13	Oct-12	Jun-13	Jun-15
LCS 37	TBD	13	Oct-12	Sep-13	Sep-15
LCS 38	TBD	13	Oct-12	Sep-13	Sep-15

FY08/FY09 President's Budget										DATE: FEBRUARY 2007	
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE								
BA #3 AMPHIBIOUS SHIPS			LHD-1 AMPHIBIOUS ASSAULT SHIPS; BLI - 303500; SUBHEAD - 2385/2386/1386								
	PRIOR YEARS	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TO COMPLETE	TOTAL PROGRAM
QUANTITY	8	0	0	0	0	0	0	0	0	0	8
End Cost	9,644.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9,644.3
Less Advance Procurement	1,730.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,730.6
Less Escalation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Less Subsequent Year FF	257.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	257.1
Full Funding TOA	7,656.6	195.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,851.7
Plus Hurricane Supplemental	0.0	37.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.6
Plus Advance Procurement	1,730.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,730.6
Total Obligational Authority	9,387.2	232.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9,582.3
Plus Outfitting and Post Delivery	261.3	13.7	10.1	19.9	8.4	0.0	0.0	0.0	0.0	0.0	313.4
Plus Hurricane Supplemental (OF/PD)	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Plus Escalation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	9,648.5	246.6	10.1	19.9	8.4	0.0	0.0	0.0	0.0	0.0	9,895.9
Unit Cost (Avg. End Cost)	1,205.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,205.5

\*Note: FY2006 does not include \$24.4M Hurricane Supplemental funding that has been transferred from the Cost-to-Complete line.

**MISSION:** The primary mission of the ship will be amphibious assault. As a secondary mission, the LHD will operate AV-8s in the attack role. The LHD will have the capability to operate and support helicopters, Very Short Take-Off and Landing (VSTOL) aircraft, amphibious craft and landing craft. It will be capable of embarking troops, vehicles, cargo and aircraft landing forces and launching them insurface and vertical assault.

<b>Characteristics:</b>		<b>Production Status</b>	<b>FY02</b>
<b>Hull</b>		Award	4/02
Length overall	844'	Months to Complete	
Beam	106'	a) Award to Delivery	73**
Displacement	40,533 TONS	b) Construction Start to Delivery	60**
Draft	26'6"	Commissioning Date	6/08**

\*\*Reflects May 08 delivery date. Contract mod is currently being negotiated reflecting the May 08 date.

<b>Armament:</b>	<b>Major Electronics</b>
CIWS/MK-15 Mod 12	AN/SLQ-32(V)3
AN/SPS-49(V)5 Radar	EXCOMM
AN/SPS-48E	Ship Surveillance Exploitation System
NATO Seasparrow	NTCS-A
Rolling Airframe Missile	CEC (LHD 8)
	SSDS MK II (LHD 8)

**APPROPRIATION: SHIPBUILDING AND  
CONVERSION, NAVY**

**WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)**

**BUDGET ACTIVITY: 3  
AMPHIBIOUS SHIPS**

**P-1 ITEM NOMENCLATURE: LHD 1 CLASS AMPHIBIOUS ASSAULT SHIP**

**SUBHEAD: 2385/2386/1386**

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ELEMENT OF COST	QTY	FY02 TOT COST
PLAN COSTS	1	0
BASIC CONST/CONVERSION		1,406,696
CHANGE ORDERS		77,272
ELECTRONICS		236,148
HM&E		58,363
OTHER COST		83,240
ORDNANCE		90,574
ESCALATION		181,728
HURRICANE SUPPLEMENTAL		62,000
TOTAL SHIP ESTIMATE		2,196,021
LESS ADVANCE PROCUREMENT FY99		44,205
LESS ADVANCE PROCUREMENT FY00		355,170
LESS ADVANCE PROCUREMENT FY01		455,777
LESS FY03 SUBSEQUENT YEAR FULL FUNDING		238,058
LESS FY04 SUBSEQUENT YEAR FULL FUNDING		351,694
LESS FY05 SUBSEQUENT YEAR FULL FUNDING		238,051
LESS FY06 SUBSEQUENT YEAR FULL FUNDING		195,075
LESS FY06 HURRICANE SUPPLEMENTAL		62,000
NET P-1 LINE ITEM		255,991

SHIPBUILDING AND CONVERSION, NAVY  
Analysis of Ship Cost Estimates - Basic/Escalation

Ship Type: LHD

<u>I. Design Schedule</u>	<u>Start</u>	<u>Complete</u>
Preliminary Design		
Contract Design		
Issue Date for TOR		
Detail Design (LHD 8)	JUN 2000	JUN 2002

II. Classification of Cost Estimates

CLASS C

<u>III. Basic Construction/Conversion</u>	<u>FY02</u>
a. RFP Response Date	NOV 2001
b. Award Date	APR 2002
c. Contract Type	FPI

<u>IV. Escalation</u>	
Base Date	JUN 2001

SHIPBUILDING AND CONVERSION, NAVY  
Ship Production Schedule

SHIP TYPE	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
LHD 8	NGSS Ingalls	2002	Apr-02	May-03	May-08*

\*Contract mod currently being negotiated reflecting May 08 delivery date.

SHIPBUILDING AND CONVERSION, NAVY  
Analysis of Ship Cost Estimates - Major Equipment  
(Dollars in Thousands)

Ship Type: LHD

(1)

FY 02

QTY TOT COST

**ELECTRONIC EQUIPMENT**

a. P-35 Items

1. AADS	1	4,579
2. AN/SLQ-32	1	4,923
3. BFTT	1	5,844
4. C4ISR	1	97,392
5. AN/SPN-41	1	3,258
6. AN/TPX-42	1	3,773
7. CEC	1	11,819
8. IVN	1	8,982
10. MK-12 IFF	1	5,119
11. SSDS	1	52,940

Subtotal 198,629

b. Major Items

1. AN/SLQ-25	1	1,369
2. AN/SPN-43	1	2,682
3. AN/SRC-55	1	2,388
4. AN/WSN-7	1	2,676
5. AN/SPN-35C	1	2,162

Subtotal 11,277

c. Other Electronics 26,242

TOTAL ELECTRONICS 236,148

SHIPBUILDING AND CONVERSION, NAVY  
Analysis of Ship Cost Estimates - Major Equipment  
(Dollars in Thousands)

Ship Type: LHD

(1)  
FY 02  
QTY TOT COST

**HM&E EQUIPMENT**

a. P-35 Items

1. LM2500+ Spare Engine

6,560

Subtotal

6,560

b. Major Items

1. Equipment & Engineering

40,395

2. SUPSHIP Material/Svcs

3,675

3. Test & Instrumentation

7,733

Subtotal

51,803

c. Other HM&E

0

NONE

**TOTAL HM&E**

58,363



ITEM: AMPHIBIOUS ASSAULT DIRECTION SYSTEM (AADS)

I. DESCRIPTION/CHARACTERISTIC/PURPOSE: AADS uses the Position Location Reporting System (PLRS) and/or the Enhanced PLRS (EPLRS) to track those ships and craft equipped with PLRS or EPLRS radios launched from the Expeditionary Strike Group (ESG). The Position Location Information (PLI) tracks are calculated at the PLRS Master Station (MS) or EPLRS Net Control Station (NCS) installed on the ESG Command Ship (LHD/LHA) and transmitted to the AN/KSQ-1 workstation resident in the Combat Information Center (CIC). The track data-base is displayed on the KSQ-1 workstation, allowing the Boat Control Officer to monitor the craft transiting the lanes to and from the objective.

II. CURRENT FUNDING

SHIPTYPE: LHD	FY02
MAJOR HARDWARE	970
ENGINEERING SVCS	3,609
TOTAL	4,579

III. CONTRACT DATA:

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
02	LHD	AVAYA AND DYNALEC	1	VARIOUS	VARIOUS

IV. DELIVERY DATA:

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
02	LHD	VARIOUS	VARIOUS	VARIOUS	VARIOUS

V. COMPETITION/SECOND SOURCE INITIATIVES  
 N/A

ITEM: BATTLE FORCE TACTICAL TRAINING (BFTT) SYSTEM AND INTEGRATION

I. DESCRIPTION/CHARACTERISTIC/PURPOSE: The AN/USQ-T46(V)BFTT System provides standardized combat system team proficiency training for the Surface Fleet in accordance with the Afloat Training Strategy. BFTT interfaces and/or provides an integrated training capability for the primary combat system elements onboard LHD8.

II. CURRENT FUNDING

SHIPTYPE: LHD	FY02
MAJOR HARDWARE	3,937
SPARES	150
ENGINEERING	1,757
TOTAL	5,844

III. CONTRACT DATA:

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
02	LHD	N/A	1	3,937	APR 03

IV. DELIVERY DATA:

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
02	LHD	N/A	N/A	12	N/A

V. COMPETITION/SECOND SOURCE INITIATIVES:  
 N/A

ITEM: AN/SLQ-32A(V3)

I. DESCRIPTION/CHARACTERISTIC/PURPOSE: The AN/SLQ-32A(V)3 is the Anti-Ship Missile Defense (ASMD) electronic warfare system that provides a family of modular shipborne electronic warfare equipments. The Electronic Support Measures (ESM) part of the system automatically detects, sorts, classifies, identifies, and continuously displays signals within their frequency band.

II. CURRENT FUNDING

SHIPTYPE: LHD	FY02
MAJOR HARDWARE	3,855 *
SPARES	119
ENGINEERING SVCS	929
ENGINEERING SVCS - Katrina	20
TOTAL	4,923

III. CONTRACT DATA:

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
02	LHD	N/A	1	3,855	N/A*

IV. DELIVERY DATA:

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
02	LHD	Jun-04	30 Months	30 Months	N/A*

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

\* Refurbished System

ITEM: COMMAND, CONTROL, COMMUNICATION, COMPUTER, INTELLIGENCE, SURVEILANCE, AND RECONNAISSANCE (C4ISR)

I. DESCRIPTION/CHARACTERISTIC/PURPOSE: The Command, Control, Communication, Computer, Intelligence, Surveillance, and Reconnaissance (C4ISR) system provides the link between the ship and the command hierarchy and other units of the operation force.

II. CURRENT FUNDING

SHIPTYPE: LHD	FY02
MAJOR HARDWARE	51,289
SPARES	2,477
ENGINEERING	43,626
TOTAL	97,392

III. CONTRACT DATA:

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
02	LHD	VARIOUS	1	VARIOUS	VARIOUS

IV. DELIVERY DATA:

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
02	LHD	VARIOUS	VARIOUS	VARIOUS	VARIOUS

V. COMPETITION/SECOND SOURCE INITIATIVES

N/A

ITEM:AN/SPN-41A

I. DESCRIPTION/CHARACTERISTIC/PURPOSE: AN/SPN-41/41A: Transmitting set that provides all weather instrument approach guidance from the ship to the aircraft. Used as the ship's Instrument Landing System (ILS) & Monitor to provide azimuth and elevation alignment information.

II. CURRENT FUNDING

SHIPTYPE: LHD	FY02
MAJOR HARDWARE	2,247
ENGINEERING SVCS	1,011
TOTAL	3,258

III. CONTRACT DATA:

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
02	LHD	VARIOUS	1	2,247	VARIOUS

IV. DELIVERY DATA:

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
02	LHD	Nov-06	23 Months	12 Months	Nov-03

V. COMPETITION/SECOND SOURCE INITIATIVES  
 Non-Competitive/Sole Source Production Contract/CPAF

ITEM:AN/TPX-42A(V) 14

I. DESCRIPTION/CHARACTERISTIC/PURPOSE: The AN/TPX-42A(V) Direct Altitude and Identity Readout (DAIR) systems are designed to provide improved flight data processing, tracking and display capabilities for air traffic control (ATC) centers. They provide air traffic controllers with identity, altitude, and current status on aircraft within 50nm of the aviation capable platform.

II. CURRENT FUNDING

SHIPTYPE: LHD	FY02
MAJOR HARDWARE	2,629
ENGINEERING SVCS	1,144
TOTAL	3,773

III. CONTRACT DATA:

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
02	LHD	VARIOUS	1	2,629	VARIOUS

IV. DELIVERY DATA:

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
02	LHD	Feb-04	32 Months	24 Months	Feb-02

V. COMPETITION/SECOND SOURCE INITIATIVES  
 Non-Competitive/Sole Source Production Contract/CPAF

ITEM: AN/USG-2 COOPERATIVE ENGAGEMENT CAPABILITY (CEC)

I. DESCRIPTION/CHARACTERISTIC/PURPOSE: AN/USG-2 Cooperative Engagement Capability (CEC) significantly improves Battle Force Anti-Air Warfare (AAW) capability. CEC significantly improves strategic awareness by coordinating all Battle Force AAW sensors into a single, real-time, composite track picture capable of fire control quality. CEC distributes sensor data from each ship and aircraft, or cooperating unit (CU), to all other CU's in the battle force through a real-time, line of sight, high data rate sensor and engagement data distribution network. CEC data is presented as a superset of the best AAW sensor capabilities from each CU, all of which are integrated into a single input to each CU's combat weapons system. Moreover, CEC will provide critical connectivity and integration of over-land air defense systems capable of countering emerging air threats, including land attack cruise missiles, in a complex littoral environment. CEC consists of the DATA Distribution System (DDS), the Cooperative Engagement Processor (CEP), and Combat System modifications. The DDS encodes and distributes own-ship sensors, providing precision gridlocking and high throughput of data. The CEP is a high capacity distributed processor that is able to process force levels of data in a timely manner, allowing its output to be considered real-time fire control data.

II. CURRENT FUNDING

SHIPTYPE: LHD	FY02
MAJOR HARDWARE	5,928
SPARES	1,291
ENGINEERING	4,600
TOTAL	11,819

III. CONTRACT DATA:

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
02	LHD	RAYTHEON	1	5,928	Jun-01

IV. DELIVERY DATA:

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
02	LHD	Nov-02		18 Months	Jun-01

V. COMPETITION/SECOND SOURCE INITIATIVES  
 Non-Competitive/Sole Source Production Contract/CPAF

ITEM: INTEGRATED VOICE NETWORK (IVN)

I. DESCRIPTION/CHARACTERISTIC/PURPOSE: The Integrated Voice Network (IVN) system provides replacement of current unsupportable, labor intensive shipboard tactical interior communication systems. IVN provides increased video, voice and data communications capability, and decreases the number of handsets and terminals in confined operational spaces onboard ship. IVN provides all interfaces to shipboard C41 installations.

II. CURRENT FUNDING

SHIPTYPE: LHD	FY02
MAJOR HARDWARE	7,227
ENGINEERING SERVICES	1,755
TOTAL	8,982

III. CONTRACT DATA:

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
02	LHD	AVAYA AND DYNALEC	1	7,227	Feb-03

IV. DELIVERY DATA:

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
02	LHD	Nov-06	9 Months	7 Months	Apr-06

V. COMPETITION/SECOND SOURCE INITIATIVES  
 Non-Competitive/Sole Source Production Contract/CPAF

ITEM:MK12 IFF

I. DESCRIPTION/CHARACTERISTIC/PURPOSE: The Interrogator System AN/UPX-29 (V) is deployed on high capability, state of the art surface platforms that require Identification Friend or Foe (IFF) operational performance beyond that provided by a standard Mark XII system for combat identification.

II. CURRENT FUNDING

SHIPTYPE: LHD	FY02
MAJOR HARDWARE	3,485
SPARES	289
ENGINEERING	1,345
TOTAL	5,119

III. CONTRACT DATA:

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
02	LHD	LITTON	1	2,589	Nov-01
02	LHD	SANDERS	1	896	Mar-01

IV. DELIVERY DATA:

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
02	LHD	Feb-04	32 Months	22 Months	N/A

V. COMPETITION/SECOND SOURCE INITIATIVES  
 Non-Competitive/Sole Source Production Contract/CPAF

ITEM: SHIP SELF DEFENSE SYSTEM (SSDS)

I. DESCRIPTION/CHARACTERISTIC/PURPOSE: The SSDS MK2 provides selected ships with greater capability to defend themselves against Anti-Ship Cruise Missile (ASCM) attacks. The system integrates and coordinates all of the existing sensors and weapons systems aboard ship. It provides a Local Area Network (LAN), LAN Access Units (LAU), a modular command table (consisting of UYK-70 cards and components augmented by communications modules) and UYQ-70(V) Command and Decision consoles.

II. CURRENT FUNDING

SHIPTYPE: LHD	FY02
MAJOR HARDWARE	14,808
SPARES	870
ENGINEERING	37,262
TOTAL	52,940

III. CONTRACT DATA:

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
02	LHD	RAYTHEON	1	14,808	May-02

IV. DELIVERY DATA:

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
02	LHD	Feb-04	28 Months	18 Months	Aug-02

V. COMPETITION/SECOND SOURCE INITIATIVES

N/A

ITEM: LM2500+ SPARE ENGINE

I. DESCRIPTION/CHARACTERISTIC/PURPOSE: LHD 8 eliminated the steam plant and systems though the introduction of gas turbine propulsion. The LHD 8 is the first ship to introduce this type of gas turbine engine and is required to procure a spare.

II. CURRENT FUNDING

SHIPTYPE: LHD	FY02
MAJOR HARDWARE	6,095
ENGINEERING SVCS	465
TOTAL	6,560

III. CONTRACT DATA:

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
02	LHD	GENERAL ELECTRIC	1	6,095	Jan-05

IV. DELIVERY DATA:

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
02	LHD	N/A	Required at delivery		Jan-05

ITEM: AN/SPQ-9B

I. DESCRIPTION/CHARACTERISTIC/PURPOSE: The AN/SPQ-9B is a multimode, X-Band, narrow beam, pulse Doppler radar that detects all known projected sea skimming missiles at the horizon in heavy clutter, while simultaneously providing detection and tracking of surface targets and beacon responses.

II. CURRENT FUNDING

SHIPTYPE: LHD	FY02
MAJOR HARDWARE	4,477
SPARES	363
SYSTEMS ENGINEERING	1,110
TOTAL	5,950

III. CONTRACT DATA:

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
02	LHD	NORTHROP GRUMMAN	1	4,477	Jun-02

IV. DELIVERY DATA:

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
02	LHD	N/A	12 Months	18 Months	Jun-02

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

ITEM: AN/SPS-48E RADAR

I. DESCRIPTION/CHARACTERISTIC/PURPOSE: The AN/SPS-48E Radar is a three-coordinate air search radar whose primary function is to provide target position data to a weapon system. Collateral functions include air traffic and intercept control.

II. CURRENT FUNDING

SHIPTYPE: LHD	FY02
MAJOR HARDWARE	5,978 *
SPARES	700
ENGINEERING	3,688
TOTAL	10,366

III. CONTRACT DATA:

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
02	LHD	ITT/GILFILLAN	1	5,978	N/A*

IV. DELIVERY DATA:

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
02	LHD	Dec 05	32 Months	18 Months	N/A*

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

\* Refurbished system

ITEM: AN/SPS-49 (V)5 RADAR

I. DESCRIPTION/CHARACTERISTIC/PURPOSE: The AN/SPS-49 Radar is a narrow beam, very long range, two dimensional air search radar. In replacing some older radars which are nearing end-of-life, the AN/SPS-49 offers greatly improved operational performance, reliability and maintainability.

II. CURRENT FUNDING

SHIPTYPE: LHD	FY02
MAJOR HARDWARE	4,760 *
SPARES	189
ENGINEERING - KATRINA	1,271
TOTAL	6,220

III. CONTRACT DATA:

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
02	LHD	RAYTHEON	1	4,760	N/A

IV. DELIVERY DATA:

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
02	LHD	Dec 05	32 Months	24 Months	N/A

V. COMPETITION/SECOND SOURCE INITIATIVES:  
 N/A

\* Refurbished system

ITEM: CLOSE-IN WEAPONS SYSTEM (CIWS)

I. DESCRIPTION/CHARACTERISTIC/PURPOSE: A fast reaction terminal defense against low-flying high speed, anti-ship missiles penetrating other fleet defensive envelopes. The system is an automatic, self contained unit consisting of search and track radar, digitalized fire control and a 20 MM gun on CIWS all mounted in a single above-deck structure requiring a minimum of interference with other ship systems.

II. CURRENT FUNDING

SHIPTYPE: LHD	FY02
MAJOR HARDWARE	10,654 *
ENGINEERING	883
TOTAL	11,537

III. CONTRACT DATA:

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
02	LHD	RAYTHEON	2	5,327	Feb-04

IV. DELIVERY DATA:

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
02	LHD	Dec-05	19 Months	22 Months	Feb-04

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

\* Refurbished System

ITEM: NATO SEASPARROW SURFACE MISSILE SYSTEM (NSSMS)

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The Rearch NATO SEASPARROW (NSS) Surface Missile System consists of a guided missile fire control system containing a power driven illuminator with bore-sight television, below deck control, and a digital computation, lightweight/low silhouette, cell-type launcher in an eight-cell configuration. Directors will incorporate a transmitter enhancement. System will provide for cross launcher assignments.

II. CURRENT FUNDING

SHIPTYPE: LHD	FY02
MAJOR HARDWARE	9,597 *
SPARES	204
OTHER COSTS	11,020
TOTAL	20,821

III. CONTRACT DATA:

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
02	LHD	RAYTHEON	2	4,798	Jan-03

IV. DELIVERY DATA:

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
02	LHD	Nov-04	24 Months	24 Months	Jan-03

V. COMPETITION/SECOND SOURCE SELECTION:

N/A

\*Refurbished System

ITEM: ROLLING AIRFRAME MISSILE (RAM)

I. DESCRIPTION/CHARACTERISTIC/PURPOSE: RAM is a lightweight, quick reaction, high firepower missile system designed to provide anti-ship defense. The system is comprised of a MK44 Guided Missile Round Pack (GMRP) and the MK49 Guided Missile Launching System (GMLS) which holds 21 RAM missiles. This system is designed to counter high density anti-ship cruise missile raids and provides for ship survivability with accurate terminal guidance, proven lethality and no fire control channel dependence.

II. CURRENT FUNDING

SHIPTYPE: LHD	FY02
MAJOR HARDWARE	10,804
SPARES	318
ENGINEERING SERVICES	5,850
TOTAL	16,972

III. CONTRACT DATA:

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
02	LHD	RAYTHEON	2	5,402	Dec-01

IV. DELIVERY DATA:

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
02	LHD	Oct-03	33 Months	21 Months	N/A

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

CLASSIFICATION: UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET (P-40)								DATE:	
		FY 2008 President's Budget								February-07	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
BA #3 AMPHIBIOUS SHIPS		LPD-17 AMPHIBIOUS TRANSPORT DOCK					BLI 303600; SUBHEAD 8317/2317/2316				
	PRIOR YRS	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TO COMPL	TOTAL PROGRAM
QUANTITY	7	1		1							9
<b>Total Funding By Ship</b>											
End Cost	9,530.4	1,486.3	0.0	1,798.3	0.0	0.0	0.0	0.0	0.0	0.0	12,815.0
Less Advance Procurement	857.9	6.9	0.0	296.2	0.0	0.0	0.0	0.0	0.0	0.0	1,161.0
Less Cost to Complete	1604.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,604.0
Less FY 2001 Transfer	27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.0
Less FY 2001 Supplemental Transfer	113.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	113.0
Less FY 2002 Transfer	90.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.8
Less FY 2003 Transfer	20.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.2
Less Program Closeout	0.0	0.0	0.0	103.2	0.0	0.0	0.0	0.0	0.0	0.0	103.2
Less Escalation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Less Hurricane Katrina Supplemental	894.2	153.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,047.2
Full Funding TOA	5923.3	1326.4	0.0	1398.9	0.0	0.0	0.0	0.0	0.0	0.0	8648.6
Plus Advance Procurement	864.8	0.0	296.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,161.0
Plus Transfer / Supplemental	251.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	251.0
Plus Cost to Complete	1,266.6	187.9	83.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,537.9
Plus Program Closeout	0.0	0.0	0.0	0.0	103.2	0.0	0.0	0.0	0.0	0.0	103.2
Total Obligational Authority	7,039.1	1,514.3	379.7	1,398.9	103.2	0.0	0.0	0.0	0.0	0.0	10,163.8
<b>Total Program Funding By Fiscal Year</b>											
Plus Cost to Complete	1,266.6	187.9	83.4	66.0	0.0	0.0	0.0	0.0	0.0	0.0	1,603.9
Plus Hurricane Katrina Supplemental	0.0	1,047.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,047.2
Plus Outfitting & Post Delivery	141.2	98.6	79.8	74.8	70.3	55.3	56.5	48.0	12.2	0.0	636.7
Plus Hurricane Katrina Supplemental (OF & PD)	0.0	28.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.4
<b>TOTAL</b>	8,446.9	2,876.4	542.9	1,539.7	173.5	55.3	56.5	48.0	12.2	0.0	13,480.0
Unit Cost (Ave. End Cost)	1,361.5	1,486.3		1,798.3							1,423.9

\*Note: FY2006 does not include \$153M Hurricane Supplemental funding that has been transferred from the Cost-to-Complete line.

**MISSION:** Functional replacement for LKA 113, LPD 4, LSD 36, and LST 1179 classes of Amphibious Ships in embarking, transporting, and landing elements of a Marine landing force in an assault by helicopters, landing craft, amphibious vehicles, and by a combination of these methods to conduct primary amphibious warfare missions.

**CHARACTERISTICS:**

**Hull**

Length overall	208.5M (684')	Award Planned (Month)	November 2007
Beam	31.9M (105')	Months to Complete	
Displacement	25.3L MT (24.9K1)	a) Award to Delivery	46
Draft	7M (23')	b) Const. Start to Delivery	44
		Commissioning Date	TBD

**Armament**

- RAM Missile System
- SPQ-9B
- AN/SPS-48E
- 30 mm Mark 46 Gun System
- 50 cal Machine Gun

*Totals may not add due to rounding.*

UNCLASSIFIED

CLASSIFICATION  
 APPROPRIATION: SHIPBUILDING AND  
 CONVERSION, NAVY

P-5 EXHIBIT  
 FY 2008 President's Budget  
 Feb-07

WEAPONS SYSTEM COST ANALYSIS (EXHIBIT P-5)  
 (Dollars in Thousands)

BUDGET ACTIVITY: 3		P-1 ITEM NOMENCLATURE: LPD-17				SUBHEAD: 8317						
AMPHIBIOUS SHIPS		AMPHIBIOUS TRANSPORT DOCK										
ELEMENT OF COST	FY 1999		FY 2000		FY 2003		FY 2004		FY 2005		FY 2006	
	LPD 18		LPD 19/20		LPD 21		LPD 22		LPD 23		LPD 24	
	QTY	TOT COST	QTY	TOT COST	QTY	TOT COST	QTY	TOT COST	QTY	TOT COST	QTY	TOT COST
PLAN COSTS	1	0	2	0	1	0	1	0	1	0	1	0
BASIC CONSTRUCTION		1,039,522		2,003,854		995,300		1,164,782		1,178,759		1,220,324
CHANGE ORDERS		24,923		41,030		13,900		18,385		18,409		29,080
ELECTRONICS		119,437		221,968		157,044		137,825		106,271		142,596
PROPULSION EQUIPMENT		0		0		0		0		0		0
HM&E		18,519		42,122		40,650		35,261		5,629		41,224
OTHER COST		8,478		10,425		11,264		5,065		5,000		5,000
ORDNANCE		40,481		96,616		68,408		42,100		43,161		48,065
ESCALATION		0		0		0		0		0		0
TOTAL SHIP ESTIMATE		1,251,360		2,416,015		1,286,566		1,403,418		1,357,229		1,486,290
LESS: ADVANCE PROCUREMENT (FY98)		96,026										
LESS: ADVANCE PROCUREMENT (FY01)						402,756		63,749		7,184		6,865
LESS: ADVANCE PROCUREMENT (FY02)						154,249						
LESS: ADVANCE PROCUREMENT (FY03)												
LESS: ADVANCE PROCUREMENT (FY04)												
LESS: ADVANCE PROCUREMENT (FY04)										133,939		
LESS: FY 2001 TRANSFER												
LESS: FY 2001 SUPPLEMENTAL TRANSFER												
LESS: FY 2002 TRANSFER		90,783										
LESS: FY02 COST TO COMPLETE												
LESS: FY 2003 TRANSFER		20,220										
LESS: FY03 COST TO COMPLETE		82,000		187,000								
LESS: FY04 COST TO COMPLETE		51,100		112,778								
LESS: FY05 COST TO COMPLETE		38,100		171,681								
LESS: FY06 COST TO COMPLETE		94,050		93,852								
LESS: FY07 COST TO COMPLETE				66,049						17,400		
LESS: FY08 COST TO COMPLETE										65,999		
LESS: HURRICANE KATRINA SUPPLEMENTAL		141,000		279,000		146,200		157,000		171,000		153,000
NET P-1 LINE ITEM		638,081		1,505,655		583,361		1,182,669		961,707		1,326,425

UNCLASSIFIED

CLASSIFICATION

APPROPRIATION: SHIPBUILDING AND  
CONVERSION, NAVY

P-5 EXHIBIT

FY 08 Presiden't Budget  
Feb-07

WEAPONS SYSTEM COST ANALYSIS (EXHIBIT P-5)  
(Dollars in Thousands)

BUDGET ACTIVITY: 3

SUBHEAD: 8317

AMPHIBIOUS SHIPS

ELEMENT OF COST	FY 2008	
	QTY	TOT COST
PLAN COSTS	1	0
BASIC CONSTRUCTION		1,267,759
CHANGE ORDERS		56,645
ELECTRONICS		225,828
PROPULSION EQUIPMENT		0
HM&E		54,865
OTHER COST		10,572
ORDNANCE		79,489
ESCALATION		0
PROGRAM CLOSEOUT		103,216
TOTAL SHIP ESTIMATE		1,798,374
LESS: ADVANCE PROCUREMENT (FY07)		296,236
LESS: PROGRAM CLOSEOUT IN FY 09 FULL FUNDING		103,216
NET P-1 LINE ITEM		1,398,922

SHIPBUILDING AND CONVERSION, NAVY  
 Analysis of Ship Cost Estimates - Basic/Escalation

Ship Type: LPD 17

I. Design Schedule

	<u>Start</u>	<u>Complete</u>
Preliminary Design	JAN 1993	NOV 1993
Contract Design	DEC 1993	MAR 1996
Issue Date for TOR	-	SEP 1988
Detail Design	DEC 1996	JUL 2002

II. Classification of Cost Estimates

CLASS C

III. Basic Construction/Conversion

	<u>FY96 (0001)</u>	<u>FY99 (0001)</u>	<u>FY00 (0001)</u>	<u>FY00 (0002)</u>	<u>FY03 (0001)</u>	<u>FY04 (0001)</u>	<u>FY05 (0001)</u>	<u>FY06 (0001)</u>	<u>FY08 (0001)</u>
a. RFP Response Date	JUN 1996	JUN 1996	JUN 1996	OCT 1999	JAN 2003	MAY 2004	MAY 2004	JUN 2005	JUN 2006
b. Award Date	DEC 1996	DEC 1998	FEB 2000	MAY 2000	NOV 2003	JUN 2006	JUN 2006	NOV 2006	NOV 2007
c. Contract Type	CPIF	CPIF	CPIF	CPIF	CPIF	FPIF/AF	FPIF/AF	FPIF/AF	FPIF/AF

IV. Escalation

Base Date	FORWARD								
	PRICED								

UNCLASSIFIED

CLASSIFICATION

SHIPBUILDING AND CONVERSION, NAVY  
SHIP PRODUCTION SCHEDULE

EXHIBIT P-27  
FY 2008 President's Budget  
Feb-07

SHIP TYPE	HULL NUMBER	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
LPD 9901	LPD 18	NGSS	1999	DECEMBER 1998	FEBRUARY 2002	DECEMBER 2006
LPD 0001	LPD 19	NGSS	2000	FEBRUARY 2000	JULY 2001	APRIL 2007
LPD 0002	LPD 20	NGSS	2000	MAY 2000	OCTOBER 2002	JULY 2008
LPD 0301	LPD 21	NGSS	2003	NOVEMBER 2003	MARCH 2004	APRIL 2009
LPD 0401	LPD 22	NGSS	2004	JUNE 2006	JULY 2006	JUNE 2010
LPD 0501	LPD 23	NGSS	2005	JUNE 2006	MARCH 2007	OCTOBER 2010
LPD 0601	LPD 24	NGSS	2006	NOVEMBER 2006	AUGUST 2007	MARCH 2011
LPD 0801	LPD 25	NGSS	2008	NOVEMBER 2007	FEBRUARY 2008	OCTOBER 2011

SHIPBUILDING AND CONVERSION, NAVY  
Analysis of Ship Cost Estimates - Major Equipment  
(Dollars in Thousands)

Ship Type: LPD 17

	(1) FY 99		(2) FY 00		(1) FY 03		(1) FY 04		(1) FY 05		(1) FY 06	
	<u>QTY</u>	<u>TOT COST</u>										
ELECTRONIC EQUIPMENT												
a. P-35 Items												
1. C4ISR	1	61,016	2	92,621	1	62,201	1	63,658	1	54,094	1	60,424
2. SSDS Mark 2	1	32,370	2	54,702	1	27,733	1	18,800	1	18,082	1	28,184
3. CEC (FY 96-00 included in SSDS MK2)	0	0	0	0	1	6,833	1	7,010	1	7,342	1	6,751
4. MK 12 AIMS IFF	1	4,907	2	12,106	1	5,455	1	5,316	1	6,165	1	6,896
5. AN/SLQ-32(V)2 (Refurb)	1	3,505	2	6,748	1	5,165	1	5,797	1	5,571	1	5,571
6. BATTLE FORCE TACTICAL TRAINER	1	2,853	2	5,706	1	4,912	1	3,347	1	4,417	1	4,119
Subtotal		104,651		171,883		112,299		103,928		95,671		111,945
b. Major Items												
1. NULKA	1	1,044	2	2,153	1	1,546	1	1,427	1	1,411	1	1,529
2. AMPHIB ASSAULT DIR SYSTEM	1	2,574	2	5,815	1	3,237	1	3,536	1	2,965	1	2,965
3. NIXIE	1	519	2	1,073	1	937	1	1,146	1	1,146	1	902
4. RADIAC	1	30	2	80	1	32	1	32	1	33	1	33
5. SSSE Inc E (CFE to GFE in FY03)	0	0	0	0	1	526	1	477	1	477	1	493
6. AN/SPQ-14 (FY 96-00 included in SSDS MK2)	0	1,025	0	1,313	1	1,244	1	1,812	1	1,041	1	1,082
7. Doppler Sonar Velocity Log Sys. (CFE to GFE in FY05)	0	0	0	0	0	0	0	0	0	717	1	717
8. AN/UQN-4 (Fathmoter)	0	0	0	0	1	190	1	190	1	199	1	203
9. AN/WSN-7(RLGN)	0	0	0	0	0	0	1	2,327	1	2,611	1	4,029
Subtotal		5,192		10,434		7,712		10,947		10,600		11,953
c. Other Electronics		9,594		39,651		37,033		22,950		0		18,698
TOTAL ELECTRONICS		119,437		221,968		157,044		137,825		106,271		142,596

UNCLASSIFIED

CLASSIFICATION

P-8A EXHIBIT

FY 2008 President's Budget

Feb-07

SHIPBUILDING AND CONVERSION, NAVY  
Analysis of Ship Cost Estimates - Major Equipment  
(Dollars in Thousands)

Ship Type: LPD 17

(1)

FY 08

QTY      TOT COST

ELECTRONIC EQUIPMENT

a. P-35 Items

1. C4ISR	1	75,776
2. SSDS Mark 2	1	25,139
3. CEC (FY 96-00 included in SSDS MK2)	1	6,918
4. MK 12 AIMS IFF	1	6,781
5. AN/SLQ-32(V)2 (Refurb)	1	5,792
6. BATTLE FORCE TACTICAL TRAINER	1	4,685

Subtotal

125,092

b. Major Items

1. NULKA	1	1,601
2. AMPHIB ASSAULT DIR SYSTEM	1	2,833
3. NIXIE	1	1,140
4. RADIAC	1	33
5. SSSE Inc E (CFE to GFE in FY03)	1	502
6. AN/SPQ-14 (FY 96-00 included in SSDS MK2)	1	1,722
7. Doppler Sonar Velocity Log Sys. (CFE to GFE in FY05)	1	717
8. AN/UQN-4 (Fathmoter)	1	215
9. AN/WSN-7(RLGN)	1	4,438

Subtotal

13,201

c. Other Electronics

87,535

TOTAL ELECTRONICS

225,828

SHIPBUILDING AND CONVERSION, NAVY  
Analysis of Ship Cost Estimates - Major Equipment  
(Dollars in Thousands)

Ship Type: LPD 17	(1)		(2)		(1)		(1)		(1)		(1)	
	FY 99		FY 00		FY 03		FY 04		FY 05		FY 06	
	QTY	TOT COST										
HM&E EQUIPMENT												
a. P-35 Items												
NONE												
Subtotal		0		0		0		0		0		0
b. Major Items												
1. Boats	3	858	6	1,779	3	968	3	918	3	918	3	937
2. CCTV, Site 400	1	325	2	650	1	359	1	376	1	381	1	385
3. Truck, Forklift	14	873	28	1,476	14	929	14	948	14	983	14	989
4. Chemical Warfare Detector	1	87	2	66	1	177	1	173	1	183	1	93
5. Military Payroll System (Navy Cash System & NSIPS)	0	0	0	0	1	686	1	575	1	696	1	653
6. Integrated Condition Assessment System (ICAS)					1	406	1	267	1	270	1	280
7. Oily Water Separator				16		8	1	232	1	216	1	221
8. Plastic Waste Processing Eq												
Subtotal		2,143		3,987		3,533		3,489		3,647		3,558
c. Other HM&E		16,376		38,135		37,117		31,772		1,982		37,666
TOTAL HM&E		18,519		42,122		40,650		35,261		5,629		41,224

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CLASSIFICATION

P-8A EXHIBIT

FY 2008 President's Budget

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SHIPBUILDING AND CONVERSION, NAVY  
Analysis of Ship Cost Estimates - Major Equipment  
(Dollars in Thousands)

Ship Type: LPD 17

(1)

FY 08

QTY      TOT COST

HM&E EQUIPMENT

a. P-35 Items

Subtotal

0

b. Major Items

1. Boats	3	1,121
2. CCTV, Site 400	1	399
3. Truck, Forklift	14	1,050
4. Chemical Warfare Detector	1	195
5. Military Payroll System (Navy Cash System & NSIPS)	1	743
6. Integrated Condition Assessment System (ICAS)	1	448
7. Plastic Waste Processing Eqp	1	227

Subtotal

4,183

c. Other HM&E

50,682

TOTAL HM&E

54,865

SHIPBUILDING AND CONVERSION, NAVY  
Analysis of Ship Cost Estimates - Major Equipment  
(Dollars in Thousands)

Ship Type: LPD 17

	(1)		(2)		(1)		(1)		(1)		(1)	
	FY 99		FY 00		FY 03		FY 04		FY 05		FY 06	
	<u>QTY</u>	<u>TOT COST</u>										
ORDNANCE EQUIPMENT												
a. P-35 Items												
1. RAM Missile System	2	19,124	4	37,345	2	24,642	2	12,641	2	19,074	2	19,106
2. AN/SPS-48E	1	9,846	2	19,560	1	13,325	1	15,550	1	13,643	1	13,534
3. SPQ-9B	1	5,141	2	13,032	1	6,544	1	6,911	1	7,681	1	7,729
Subtotal		34,111		69,937		44,511		35,102		40,398		40,369
b. Major Items												
1. 50 CAL Machine Gun		0	4	84	2	43	0	0	0	-	0	0
2. Flight Cntrl & Instrument Landing System with Helicopter Operations Surveillance System and Dynamic Interface Test	1	577	2	976	1	659	1	1,441	1	1,383	1	1,353
3. MK46 Gun Barrels	2	621	4	1,082	2	650	2	2,024	2	1,020	2	732
4. Ordnance Handling Equipment	1	356	2	674	1	368		350		360	1	360
Subtotal		1,554		2,816		1,720		3,815		2,763		2,445
c. Other Ordnance		4,816		23,863		22,177		3,183		-		5,251
TOTAL ORDNANCE		40,481		96,616		68,408		42,100		43,161		48,065

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P-8A EXHIBIT

FY 2008 President's Budget

Feb-07

SHIPBUILDING AND CONVERSION, NAVY  
Analysis of Ship Cost Estimates - Major Equipment  
(Dollars in Thousands)

Ship Type: LPD 17

(1)

FY 08

QTY    TOT COST

ORDNANCE EQUIPMENT

a. P-35 Items

1. RAM Missile System	2	27,816
2. AN/SPS-48E	1	17,039
3. SPQ-9B	1	8,652

Subtotal 53,508

b. Major Items

1. 50 CAL Machine Gun	0	0
2. Flight Cntrl & Instrument Landing System with Helicopter Operations Surveillance System and Dynamic Interface Test	1	1,406
3. MK46 Gun Barrels	2	811
4. Ordnance Handling Equipment	1	427

Subtotal 2,644

c. Other Ordnance 23,337

TOTAL ORDNANCE 79,489

Ship Type - LPD 17

Item - Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

To provide the link between the ship, the command hierarchy and other units of the operating forces.

II. CURRENT FUNDING:

	<u>QTY</u>	<u>FY 99</u>	<u>QTY</u>	<u>FY 00</u>	<u>QTY</u>	<u>FY 03</u>	<u>QTY</u>	<u>FY 04</u>	<u>QTY</u>	<u>FY 05</u>	<u>QTY</u>	<u>FY 06</u>
Major Hardware	1	23,431	2	41,111	1	29,914	1	29,925	1	27,155	1	31,300
Ancillary Equipment		172		2,423		415		425		501		514
Documentation and Systems Engineering		5,150		6,763		3,705		3,102		2,653		2,848
Software		90		100		750		578		571		619
Technical Engineering		4,958		2,231		2,710		2,783		3,178		3,174
Spares		289		942		1,507		1,357		962		971
Other Appropriate Costs		9,209		10,295		5,106		4,857		4,938		4,377
Turnkey		<u>17,717</u>		<u>28,756</u>		<u>18,094</u>		<u>20,631</u>		<u>14,136</u>		<u>16,621</u>
TOTAL		61,016		92,621		62,201		63,658		54,094		60,424

III. CONTRACT DATA:

<u>PROGRAM</u>		<u>HARDWARE</u>	<u>CONTRACT</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>QUANTITY</u>	<u>UNIT COST</u>
			<u>AWARD DATE</u>

IV. DELIVERY DATA:

<u>PROGRAM</u>	<u>SHIP</u>	<u>EARLIEST SHIP</u>	<u>MONTHS REQ.</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>YEAR</u>	<u>TYPE</u>	<u>DELIVERY DATE</u>	<u>BEFORE DELIVER</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>

V. COMPETITION/SECOND SOURCE INITIATIVES:

UNCLASSIFIED

CLASSIFICATION

P-35 EXHIBIT

FY 2008 President's Budget

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Ship Type - LPD 17

Item - Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

To provide the link between the ship, the command hierarchy and other units of the operating forces.

II. CURRENT FUNDING:

	<u>QTY</u>	<u>FY 08</u>
Major Hardware	1	38,741
Ancillary Equipment		500
Documentation and Systems Engineering		2,896
Software		1,140
Technical Engineering		3,257
Spares		1,073
Other Appropriate Costs		5,433
Turnkey		<u>22,736</u>
TOTAL		75,776

III. CONTRACT DATA:

<u>PROGRAM</u>			<u>HARDWARE</u>	<u>CONTRACT</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>QUANTITY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>

IV. DELIVERY DATA:

<u>PROGRAM</u>	<u>SHIP</u>	<u>EARLIEST SHIP</u>	<u>MONTHS REQ.</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>YEAR</u>	<u>TYPE</u>	<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>

V. COMPETITION/SECOND SOURCE INITIATIVES:

Ship Type - LPD 17

Item - Ship Self Defense System Mark 2

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

Ship Self Defense System Mark 2 is microcomputer-based, self-defense coordination system that integrates and automates multiple sensors, self defense weapons, and softkill systems to provide quick reaction combat capability against anti-ship cruise missile threats. Cooperative Engagement Capability (CEC) coordinates all anti-air warfare sensors into single, real time, fire control quality composite track which improves battle force air defense (CEC funding is included FY 96-00).

II. CURRENT FUNDING:

	<u>QTY</u>	<u>FY 99</u>	<u>QTY</u>	<u>FY 00</u>	<u>QTY</u>	<u>FY 03</u>	<u>QTY</u>	<u>FY 04</u>	<u>QTY</u>	<u>FY 05</u>	<u>QTY</u>	<u>FY 06</u>
Major Hardware	1	16,737	2	28,813	1	11,250	1	11,249	1	11,250	1	12,530
Ancillary Equipment		0		0		0		0		0		0
Systems Engineering		5,289		4,356		1,833		937		600		741
Technical Data and Documentation		37		4,122		1,102		0		0		0
Technical Engineering		69		804		402		402		402		402
Spares		723		797		808		587		587		587
Other Appropriate Costs		<u>9,515</u>		<u>15,810</u>		<u>12,338</u>		<u>5,625</u>		<u>5,243</u>		<u>13,924</u>
TOTAL		32,370		54,702		27,733		18,800		18,082		28,184

III. CONTRACT DATA:

<u>PROGRAM</u>	<u>CONTRACTOR</u>	<u>QUANTITY</u>	<u>HARDWARE</u>	<u>CONTRACT</u>
<u>YEAR</u>			<u>UNIT COST</u>	<u>AWARD DATE</u>

IV. DELIVERY DATA:

<u>PROGRAM</u>	<u>SHIP</u>	<u>EARLIEST SHIP</u>	<u>MONTHS REQ.</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>YEAR</u>	<u>TYPE</u>	<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>

V. COMPETITION/SECOND SOURCE INITIATIVES:

UNCLASSIFIED

CLASSIFICATION

Ship Type - LPD 17

Item - Ship Self Defense System Mark 2

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

Ship Self Defense System Mark 2 is microcomputer-based, self-defense coordination system that integrates and automates multiple sensors, self defense weapons, and softkill systems to provide quick reaction combat capability against anti-ship cruise missile threats. CEC funding is included FY 96-00.

II. CURRENT FUNDING:

	<u>QTY</u>	<u>FY 08</u>
Major Hardware	1	10,650
Ancillary Equipment		0
Systems Engineering		600
Technical Data and Documentation		0
Technical Engineering		402
Spares		587
Other Appropriate Costs		<u>12,900</u>
TOTAL		25,139

III. CONTRACT DATA:

<u>PROGRAM</u>		<u>HARDWARE</u>	<u>CONTRACT</u>	
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>QUANTITY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>

IV. DELIVERY DATA:

<u>PROGRAM</u>	<u>SHIP</u>	<u>EARLIEST SHIP</u>	<u>MONTHS REQ.</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>YEAR</u>	<u>TYPE</u>	<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>

V. COMPETITION/SECOND SOURCE INITIATIVES:

Ship Type - LPD 17  
 Item - CEC AN/USG-2(V)

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

Cooperative Engagement Capability (CEC) coordinates all anti-warfare sensors into single, real time, fire control quality composite track which improves battle force air defense.  
 FY 96-00 CEC funding is included with SSDS Mark 2.

II. CURRENT FUNDING:

	<u>QTY</u>	<u>FY 99</u>	<u>QTY</u>	<u>FY 00</u>	<u>QTY</u>	<u>FY 03</u>	<u>QTY</u>	<u>FY 04</u>	<u>QTY</u>	<u>FY 05</u>	<u>QTY</u>	<u>FY 06</u>
Major Hardware	0	0	0	0	1	5,264	1	5,571	1	5,868	1	4,698
Ancillary Equipment		0		0		0		0		0		0
Systems Engineering		0		0		425		614		500		500
Technical Data and Documentation		0		0		0		0		0		0
Technical Engineering		0		0		221		214		300		300
Spares		0		0		395		314		395		395
Other Appropriate Costs		0		0		528		297		279		858
TOTAL		0		0		6,833		7,010		7,342		6,751

III. CONTRACT DATA:

PROGRAM		HARDWARE	CONTRACT
YEAR	CONTRACTOR	QUANTITY	UNIT COST
			AWARD DATE

IV. DELIVERY DATA:

PROGRAM	SHIP	EARLIEST SHIP	MONTHS REQ.	PRODUCTION	REQUIRED
YEAR	TYPE	DELIVERY DATE	BEFORE DELIVERY	LEAD TIME	AWARD DATE

V. COMPETITION/SECOND SOURCE INITIATIVES:

UNCLASSIFIED

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Ship Type - LPD 17

Item - CEC AN/USG-2(V)

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

Cooperative Engagement Capability (CEC) coordinates all anti-warfare sensors into single, real time, fire control quality composite track which improves battle force air defense. FY 96-00 CEC funding is included with SSDS Mark 2.

II. CURRENT FUNDING:

	<u>QTY</u>	<u>FY 08</u>
Major Hardware	1	4,888
Ancillary Equipment		0
Systems Engineering		500
Technical Data and Documentation		0
Technical Engineering		300
Spares		395
Other Appropriate Costs		<u>835</u>
TOTAL		6,918

III. CONTRACT DATA:

<u>PROGRAM</u>		<u>HARDWARE</u>	<u>CONTRACT</u>	
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>QUANTITY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>

IV. DELIVERY DATA:

<u>PROGRAM</u>	<u>SHIP</u>	<u>EARLIEST SHIP</u>	<u>MONTHS REQ.</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>YEAR</u>	<u>TYPE</u>	<u>DELIVERY DATE</u>	<u>BEFORE DELIVER</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>

V. COMPETITION/SECOND SOURCE INITIATIVES:

UNCLASSIFIED

CLASSIFICATION

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Ship Type - LPD 17

Item - MK 12 AIMS IFF [AN/UPX-28 ]

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The Transponder Set is an Automatic Identification and Monitoring System (AIMS) Identification Friend or Foe (IFF) system that receives interrogation signals from air, surface and land IFF - equipped units and automatically replies with a coded response signal that provides ownship position and identification.

II. CURRENT FUNDING:

	QTY	FY 99	QTY	FY 00	QTY	FY 03	QTY	FY04	QTY	FY05	QTY	FY 06
Major Hardware	1	3,236	2	8,468	1	3,651	1	3,510	1	4,456	1	4,667
Ancillary Equipment		236		262		35		96		128		130
Systems Engineering		843		1,488		420		1,210		601		1,060
Technical Data and Documentation		26		34		273		0		0		0
Technical Engineering		77		204		238		55		195		195
Spares		107		936		308		65		65		94
Other Appropriate Costs		<u>382</u>		<u>714</u>		<u>532</u>		<u>380</u>		<u>720</u>		<u>750</u>
TOTAL		4,907		12,106		5,455		5,316		6,165		6,896

III. CONTRACT DATA:

PROGRAM		HARDWARE	CONTRACT
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>QUANTITY</u>	<u>UNIT COST</u>
			<u>AWARD DATE</u>

IV. DELIVERY DATA:

PROGRAM	SHIP	EARLIEST SHIP	MONTHS REQ.	PRODUCTION	REQUIRED
<u>YEAR</u>	<u>TYPE</u>	<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>

V. COMPETITION/SECOND SOURCE INITIATIVES:

UNCLASSIFIED

CLASSIFICATION

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Ship Type - LPD 17

Item - MK 12 AIMS IFF [AN/UPX-28 ]

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The Transponder Set is an Automatic Identification and Monitoring System (AIMS) Identification Friend or Foe (IFF) system that receives interrogation signals from air, surface and land IFF - equipped units and automatically replies with a coded response signal that provides ownship position and identification.

II. CURRENT FUNDING:

	<u>QTY</u>	<u>FY08</u>
Major Hardware	1	4,889
Ancillary Equipment		132
Systems Engineering		1,000
Technical Data and Documentation		0
Technical Engineering		0
Spares		125
Other Appropriate Costs		<u>635</u>
TOTAL		6,781

III. CONTRACT DATA:

<u>PROGRAM</u>			<u>HARDWARE</u>	<u>CONTRACT</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>QUANTITY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>

IV. DELIVERY DATA:

<u>PROGRAM</u>	<u>SHIP</u>	<u>EARLIEST SHIP</u>	<u>MONTHS REQ.</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>YEAR</u>	<u>TYPE</u>	<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>

V. COMPETITION/SECOND SOURCE INITIATIVES:

UNCLASSIFIED

CLASSIFICATION

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Ship Type - LPD 17

Item - AN/SLQ-32(V)2 (Refurbished)

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The AN/SLQ-32(V)2 is a passive electronics countermeasure system.

II. CURRENT FUNDING:

	<u>QTY</u>	<u>FY 99</u>	<u>QTY</u>	<u>FY 00</u>	<u>QTY</u>	<u>FY 03</u>	<u>QTY</u>	<u>FY 04</u>	<u>QTY</u>	<u>FY 05</u>	<u>QTY</u>	<u>FY 06</u>
Major Hardware	1	2,698	2	5,170	1	2,585	1	4,328	1	4,342	1	4,342
Ancillary Equipment		150		300		150		158		165		165
Systems Engineering		0		0		0		16		0		0
Technical Data and Documentation		2		12		6		6		6		6
Technical Engineering		387		580		315		327		17		17
Spares		78		156		85		132		137		137
Other Appropriate Costs		<u>190</u>		<u>530</u>		<u>2,024</u>		<u>830</u>		<u>904</u>		<u>904</u>
TOTAL		3,505		6,748		5,165		5,797		5,571		5,571

III. CONTRACT DATA:

<u>PROGRAM</u>	<u>CONTRACTOR</u>	<u>QUANTITY</u>	<u>HARDWARE</u>	<u>CONTRACT</u>
<u>YEAR</u>			<u>UNIT COST</u>	<u>AWARD DATE</u>

IV. DELIVERY DATA:

<u>PROGRAM</u>	<u>SHIP</u>	<u>EARLIEST SHIP</u>	<u>MONTHS REQ.</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>YEAR</u>	<u>TYPE</u>	<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>

V. COMPETITION/SECOND SOURCE INITIATIVES:

UNCLASSIFIED

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Ship Type - LPD 17

Item - AN/SLQ-32(V)2 (Refurbished)

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The AN/SLQ-32(V)2 is a passive electronics countermeasure system.

II. CURRENT FUNDING:

	<u>QTY</u>	<u>FY 08</u>
Major Hardware	1	4,424
Ancillary Equipment		168
Systems Engineering		0
Technical Data and Documentation		7
Technical Engineering		17
Spares		140
Other Appropriate Costs		<u>1,036</u>
TOTAL		5,792

III. CONTRACT DATA:

<u>PROGRAM</u>			<u>HARDWARE</u>	<u>CONTRACT</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>QUANTITY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>

IV. DELIVERY DATA:

<u>PROGRAM</u>	<u>SHIP</u>	<u>EARLIEST SHIP</u>	<u>MONTHS REQ.</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>YEAR</u>	<u>TYPE</u>	<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>

V. COMPETITION/SECOND SOURCE INITIATIVES:

Ship Type - LPD 17

Item - BATTLE FORCE TACTICAL TRAINING (BFTT)

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The AN/USQ-146(V) BFTT System provides standardized combat system team proficiency training for the Surface Fleet in accordance with the Afloat Training Str. BFTT interfaces to and/or provides integrated training capability for the primary combat system elements onboard LPD 17 Class ships.

II. CURRENT FUNDING:

	<u>QTY</u>	<u>FY 99</u>	<u>QTY</u>	<u>FY 00</u>	<u>QTY</u>	<u>FY 03</u>	<u>QTY</u>	<u>FY 04</u>	<u>QTY</u>	<u>FY 05</u>	<u>QTY</u>	<u>FY 06</u>
Major Hardware	1	2,270	2	4,199	1	2,270	1	1,701	1	2,432	1	2,432
Ancillary Equipment		0		0		0		0		0		0
Systems Engineering		215		435		365		100		376		221
Technical Data and Documentation		147		291		350		0		0		0
Technical Engineering		181		354		400		420		428		433
Spares		0		0		0		26		26		26
Other Appropriate Costs		<u>40</u>		<u>427</u>		<u>1,527</u>		<u>1,100</u>		<u>1,155</u>		<u>1,007</u>
TOTAL		2,853		5,706		4,912		3,347		4,417		4,119

III. CONTRACT DATA:

<u>PROGRAM</u>	<u>CONTRACTOR</u>	<u>QUANTITY</u>	<u>HARDWARE</u>	<u>CONTRACT</u>
<u>YEAR</u>			<u>UNIT COST</u>	<u>AWARD DATE</u>

IV. DELIVERY DATA:

<u>PROGRAM</u>	<u>SHIP</u>	<u>EARLIEST SHIP</u>	<u>MONTHS REQ.</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>YEAR</u>	<u>TYPE</u>	<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>

V. COMPETITION/SECOND SOURCE INITIATIVES:

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Ship Type - LPD 17

Item - BATTLE FORCE TACTICAL TRAINING (BFTT)

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The AN/USQ-146(V) BFTT System provides standardized combat system team proficiency training for the Surface Fleet in accordance with the Afloat Training Str. BFTT interfaces to and/or provides integrated training capability for the primary combat system elements onboard LPD 17 Class ships.

II. CURRENT FUNDING:

	<u>QTY</u>	<u>FY 08</u>
Major Hardware	1	2,600
Ancillary Equipment		0
Systems Engineering		407
Technical Data and Documentation		0
Technical Engineering		446
Spares		26
Other Appropriate Costs		<u>1,206</u>
TOTAL		4,685

III. CONTRACT DATA:

<u>PROGRAM</u>			<u>HARDWARE</u>	<u>CONTRACT</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>QUANTITY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>

IV. DELIVERY DATA:

<u>PROGRAM</u>	<u>SHIP</u>	<u>EARLIEST SHIP</u>	<u>MONTHS REQ.</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>YEAR</u>	<u>TYPE</u>	<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>

V. COMPETITION/SECOND SOURCE INITIATIVES:

Ship Type - LPD 17  
 Item - RAM Missile System [MK31 MOD 0 ]

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The Rolling Airframe Missile system is a short-range, fast-reaction, high-firepower, lightweight weapon designed to destroy incoming anti-ship cruise missiles.

<u>II. CURRENT FUNDING:</u>	<u>QTY</u>	<u>FY 99</u>	<u>QTY</u>	<u>FY 00</u>	<u>QTY</u>	<u>FY 01</u>	<u>QTY</u>	<u>FY 03</u>	<u>QTY</u>	<u>FY 04</u>	<u>QTY</u>	<u>FY 05</u>	<u>QTY</u>	<u>FY 06</u>
Major Hardware	2	10,675	4	21,571	0	0	2	8,304	2	8,303	2	10,861	2	10,620
Ancillary Equipment		485		970				0		0		485		485
Systems Engineering		3,377		7,271				1,318		0		3,799		3,899
Technical Data and Documentation		0		0				0		0		0		0
Technical Engineering		500		0				1,938		1,508		25		25
Spares		371		871				0		0		121		121
Other Appropriate Costs		<u>3,716</u>		<u>6,662</u>				<u>13,082</u> **		<u>2,830</u>		<u>3,783</u>		<u>3,956</u>
TOTAL END COST		19,124		37,345				24,642		12,641		19,074		19,106

\*\* Includes \$13,082K of canceled MYP material diverted to the carrier program (6,214) and excess (6,868).

III. CONTRACT DATA:

<u>PROGRAM</u>	<u>CONTRACTOR</u>	<u>QUANTITY</u>	<u>HARDWARE</u>	<u>CONTRACT</u>
<u>YEAR</u>			<u>UNIT COST</u>	<u>AWARD DATE</u>

IV. DELIVERY DATA:

<u>PROGRAM</u>	<u>SHIP</u>	<u>EARLIEST SHIP</u>	<u>MONTHS REQ.</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>YEAR</u>	<u>TYPE</u>	<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>

V. COMPETITION/SECOND SOURCE INITIATIVES:

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Ship Type - LPD 17

Item - RAM Missile System [MK31 MOD 0 ]

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The Rolling Airframe Missile system is a short-range, fast-reaction, high-firepower, lightweight weapon designed to destroy incoming anti-ship cruise missiles.

II. CURRENT FUNDING:

	<u>QTY</u>	<u>FY 08</u>
Major Hardware	2	18,226
Ancillary Equipment		505
Systems Engineering		4,060
Technical Data and Documentation		0
Technical Engineering		26
Spares		126
Other Appropriate Costs		<u>4,872</u>
TOTAL END COST		27,816

III. CONTRACT DATA:

<u>PROGRAM</u>			<u>HARDWARE</u>	<u>CONTRACT</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>QUANTITY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>

IV. DELIVERY DATA:

<u>PROGRAM</u>	<u>SHIP</u>	<u>EARLIEST SHIP</u>	<u>MONTHS REQ.</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>YEAR</u>	<u>TYPE</u>	<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>

V. COMPETITION/SECOND SOURCE INITIATIVES:

UNCLASSIFIED

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Ship Type - LPD 17

Item - AN/SPS-48E (Refurbished)

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The AN/SPS-48E is a long-range, three dimensional, air-search radar system that provides contact range, bearing, and height information.

II. CURRENT FUNDING:

	<u>QTY</u>	<u>FY 99</u>	<u>QTY</u>	<u>FY 00</u>	<u>QTY</u>	<u>FY 03</u>	<u>QTY</u>	<u>FY 04</u>	<u>QTY</u>	<u>FY 05</u>	<u>QTY</u>	<u>FY 06</u>
Major Hardware	1	8,212	2	15,886	1	9,205	1	9,908	1	9,465	1	10,550
Ancillary Equipment		0		0		135		120		120		120
Systems Engineering		100		947		710		0		0		0
Technical Data and Documentation		111		129		150		35		35		0
Technical Engineering		471		256		532		415		415		415
Spares		0		636		400		200		200		200
Other Appropriate Costs		952		1,706		2,193		4,872		3,408		2,249
TOTAL		9,846		19,560		13,325		15,550		13,643		13,534

III. CONTRACT DATA:

<u>PROGRAM</u>	<u>HARDWARE</u>	<u>CONTRACT</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>QUANTITY</u>
	<u>UNIT COST</u>	<u>AWARD DATE</u>

IV. DELIVERY DATA:

<u>PROGRAM</u>	<u>SHIP</u>	<u>EARLIEST SHIP</u>	<u>MONTHS REQ.</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>YEAR</u>	<u>TYPE</u>	<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>

V. COMPETITION/SECOND SOURCE INITIATIVES:

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Ship Type - LPD 17

Item - AN/SPS-48E (Refurbished)

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The AN/SPS-48E is a long-range, three dimensional, air-search radar system that provides contact range, bearing, and height information.

II. CURRENT FUNDING:

	<u>QTY</u>	<u>FY 08</u>
Major Hardware	1	12,500
Ancillary Equipment		120
Systems Engineering		0
Technical Data and Documentation		40
Technical Engineering		682
Spares		200
Other Appropriate Costs		<u>3,497</u>
TOTAL		17,039

III. CONTRACT DATA:

<u>PROGRAM</u>		<u>HARDWARE</u>	<u>CONTRACT</u>	
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>QUANTITY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>

IV. DELIVERY DATA:

<u>PROGRAM</u>	<u>SHIP</u>	<u>EARLIEST SHIP</u>	<u>MONTHS REQ.</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>YEAR</u>	<u>TYPE</u>	<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>

V. COMPETITION/SECOND SOURCE INITIATIVES:

UNCLASSIFIED

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Ship Type - LPD 17

Item - AN/SPQ-9B

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The AN/SPQ-9B is a high resolution, X-band, narrow beam radar that provides both air and surface tracking information.

II. CURRENT FUNDING:

	<u>QTY</u>	<u>FY 99</u>	<u>QTY</u>	<u>FY 00</u>	<u>QTY</u>	<u>FY 03</u>	<u>QTY</u>	<u>FY 04</u>	<u>QTY</u>	<u>FY 05</u>	<u>QTY</u>	<u>FY 06</u>
Major Hardware	1	4,433	2	9,483	1	4,797	1	4,797	1	5,819	1	5,819
Ancillary Equipment		0		0		0		0		0		0
Systems Engineering		292		858		604		250		271		271
Technical Data and Documentation		98		200		62		62		100		100
Technical Engineering		17		64		210		478		500		500
Spares		210		200		100		100		109		109
Other Appropriate Costs		91		2,227		771		1,224		882		930
TOTAL		5,141		13,032		6,544		6,911		7,681		7,729

III. CONTRACT DATA:

<u>PROGRAM</u>	<u>HARDWARE</u>	<u>CONTRACT</u>		
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>QUANTITY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>

IV. DELIVERY DATA:

<u>PROGRAM</u>	<u>SHIP</u>	<u>EARLIEST SHIP</u>	<u>MONTHS REQ.</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>YEAR</u>	<u>TYPE</u>	<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>

V. COMPETITION/SECOND SOURCE INITIATIVES:

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Ship Type - LPD 17

Item - AN/SPQ-9B

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The AN/SPQ-9B is a high resolution, X-band, narrow beam radar that provides both air and surface tracking information.

II. CURRENT FUNDING:

	<u>QTY</u>	<u>FY 08</u>
Major Hardware	1	6,574
Ancillary Equipment		0
Systems Engineering		246
Technical Data and Documentation		100
Technical Engineering		465
Spares		111
Other Appropriate Costs		<u>1,156</u>
TOTAL		8,652

III. CONTRACT DATA:

<u>PROGRAM</u>			<u>CONTRACT</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>QUANTITY</u>	<u>AWARD DATE</u>

IV. DELIVERY DATA:

<u>PROGRAM</u>	<u>SHIP</u>	<u>EARLIEST SHIP</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>YEAR</u>	<u>TYPE</u>	<u>DELIVERY DATE</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>

V. COMPETITION/SECOND SOURCE INITIATIVES:

FY2008/2009 PRESIDENT'S BUDGET											DATE: FEBRUARY 2007
APPROPRIATION/BUDGET ACTIVITY					P-1 ITEM NOMENCLATURE						
BA #3 AMPHIBIOUS SHIPS					LHA REPLACEMENT; BLI - 304100; SUBHEAD - 1387						
	PRIOR YEARS	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TO COMPLETE	TOTAL PROGRAM
QUANTITY	0	0	1	0	0	0	0	0	0	0	1
End Cost	0.0	0.0	2,806.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,806.2
Less Advance Procurement	149.3	148.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	297.7
Less Escalation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Less Subsequent Year FF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Full Funding TOA	0.0	0.0	1,131.1	1,377.4	0.0	0.0	0.0	0.0	0.0	0.0	2,508.5
Plus Advance Procurement	149.3	148.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	297.7
Total Obligational Authority	149.3	148.4	1,131.1	1,377.4	0.0	0.0	0.0	0.0	0.0	0.0	2,806.2
Plus Outfitting and Post Delivery	0.0	0.0	0.0	0.0	6.9	8.6	27.8	30.6	0.0	0.0	73.9
Plus Escalation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	149.3	148.4	1,131.1	1,377.4	6.9	8.6	27.8	30.6	0.0	0.0	2,880.1
Unit Cost (Ave. End Cost)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,806.2

**MISSION:**  
Provide functional replacement for the LHA 1 Class ships which reach the end of their extended service lives in consecutive years beginning in FY11. Ensure that the Amphibious Fleet remains capable of Expeditionary Warfare well into the 21st Century and provide for an affordable and sustainable amphibious ship development program. Provide forward presence and power projection as an integral part of Joint, interagency and multinational maritime expeditionary forces. Operate for sustained periods in transit to and operations in an Amphibious Objective Area to include the embarkation, deployment, and landing of a Marine Landing Force in an assault by helicopters and tilt rotors, supported by Joint Strike Fighters.

<b>Characteristics</b>		<b>Production Status</b>	
<b>Hull</b>		<b>Contract Plans</b>	
Length overall	844'	Award Planned (Month)	FEB 2007
Beam	106'	Months to Complete	
Displacement	45,594 tons	a) Award to Delivery	58
Draft	29'1"	b) Construction Start to Delivery	49
		Commissioning Date	TBD
<b>Armament</b>		<b>Major Electronics</b>	
NATO Sea Sparrow Missile System		AN/SLQ-32(V)2	
Rolling Airframe Missile (RAM)		C41SR Suite	
AN/SPS-49(V)5 Radar		BFTT	
AN/SPS-48E Radar		CEC P3I	
CIWS		SSDS MK II 4B	

**APPROPRIATION: SHIPBUILDING AND  
CONVERSION, NAVY**

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BUDGET ACTIVITY: 3                      P-1 ITEM NOMENCLATURE:                      LHA REPLACEMENT                      SUBHEAD: 1387  
AMPHIBIOUS SHIPS

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FY 2007

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ELEMENT OF COST	QTY	TOTAL COST
PLAN COSTS		191,000
BASIC CONST/CONVERSION		1,937,837
CHANGE ORDERS		130,000
ELECTRONICS		284,594
HM&E		52,008
OTHER COST		92,787
ORDNANCE		117,985
TOTAL SHIP ESTIMATE	1	2,806,211
LESS: FY05 ADVANCE PROCUREMENT		149,278
LESS: FY06 ADVANCE PROCUREMENT		148,398
LESS: FY08 SUBSEQUENT FUNDING		1,377,414
NET P-1 LINE ITEM		1,131,121

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**UNCLASSIFIED**  
**CLASSIFICATION**

**P-5B EXHIBIT**  
**FY08/09 PRESIDENT'S BUDGET**  
**FEBRUARY 2007**

**SHIPBUILDING AND CONVERSION, NAVY**  
**Analysis of Ship Cost Estimates - Basic/Escalation**

Ship Type: LHA Replacement

<u>I. Design Schedule</u>	<u>Start</u>	<u>Complete</u>
Preliminary Design	MAY 2004	AUG 2005
Contract Design	MAY 2004	AUG 2005
Detail Design	FEB 2006	FEB 2008

II. Classification of Cost Estimates

CLASS C

<u>III. Basic Construction/Conversion</u>	<u>FY07</u>
a. RFP Response Date	MAR 2006
b. Award Date	FEB 2007
c. Contract Type	FPI

IV. Escalation

Base Date N/A

**SHIPBUILDING AND CONVERSION, NAVY**  
**Ship Production Schedule**

<u>SHIP TYPE</u>	<u>SHIPBUILDER</u>	<u>FISCAL YEAR AUTHORIZED</u>	<u>CONTRACT AWARD</u>	<u>START OF CONSTRUCTION</u>	<u>DELIVERY DATE</u>
LHA 6	NGSS/INGALLS	2007	FEB 2007	NOV 07	DEC 11

SHIPBUILDING AND CONVERSION, NAVY  
Analysis of Ship Cost Estimates - Major Equipment  
(Dollars in Thousands)

Ship Type: LHA Replacement

(1)

FY 07

QTY TOT COST

ELECTRONIC EQUIPMENT

a. P-35 Items

1. AN/SLQ-32	1	11,826
2. C4ISR	1	120,680
3. CEC	1	15,000
4. SSDS	1	39,385
5. DCGS-N	1	20,260
6. BFTT	1	10,873
7. IVN	1	14,824
8. MK-12 IFF	1	7,335
9. AN/SRC-55	1	4,054
10. AN/TPX-42 ATC	1	4,648
11. AN/SPN-35C	1	4,459
12. AN/WSN-7 RLGN	1	4,309

Subtotal 257,653

b. Major Items

1. AN/SLQ-25	1	2,403
2. AN/SPN-43C	1	2,738
3. AN/SPN-41A	1	2,999
4. MK 53 NULKA Mod 3	1	2,554
5. MK70 SWBD w MK443 SWBD	1	1,185
6. Announcing Systems	1	1,591
7. Digital Photo Lab	1	1,524
8. CADRT	1	1,938

Subtotal 16,932

c. Other Electronics 10,009

**TOTAL ELECTRONICS 284,594**

**SHIPBUILDING AND CONVERSION, NAVY**  
**Analysis of Ship Cost Estimates - Major Equipment**  
**(Dollars in Thousands)**

**Ship Type: LHA Replacement**

	(1) FY 07
<u>QTY</u>	<u>TOT COST</u>
HM&E EQUIPMENT	
a. P-35 Items	
NONE	
Subtotal	0
b. Major Items	
1. Equipment & Engineering	40,454
2. SUPSHIP Material/Svcs	3,995
3. Test & Instrumentation	7,559
Subtotal	52,008
c. Other HM&E	
None	
Subtotal	0
<b>TOTAL HM&amp;E</b>	<b>52,008</b>

UNCLASSIFIED  
CLASSIFICATION

P-8A EXHIBIT  
FY08/09 PRESIDENT'S BUDGET  
FEBRUARY 2007

SHIPBUILDING AND CONVERSION, NAVY  
Analysis of Ship Cost Estimates - Major Equipment  
(Dollars in Thousands)

Ship Type: LHA Replacement

(1)  
FY 07  
QTY TOT COST

ORDNANCE EQUIPMENT

a. P-35 Items

1. AN/SPS-48E	1	15,552
2. AN/SPS-49	1	11,521
3. CIWS	2	11,631
4. AN/SPQ-9B	1	9,135
5. NATO Seasparrow	2	26,490
6. RAM	2	25,769
Subtotal		100,098

b. Major Items

1. AN/SPS-73	2	991
2. 25MM MK 38 Gun	2	2,153
2. AN/SPQ-14	1	2,975
Subtotal		6,119

c. Other Ordnance

1. Aviation Support		3,396
2. Misc Ordnance		1,250
3. Total Ship Test Program		7,122
Subtotal		11,768

**TOTAL ORDNANCE** **117,985**

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

**P-35 EXHIBIT  
 FY08/09 PRESIDENT'S BUDGET  
 FEBRUARY 2007**

**ITEM: AN/SLQ-32A(V)2**

**I. DESCRIPTION/CHARACTERISTIC/PURPOSE:** The AN/SLQ-32A(V)2 is the Anti-Ship Missile Defense (ASMD) electronic warfare system that provides a family of modular shipborne electronic warfare equipments. The Electronic Support Measures (ESM) part of the system automatically detects, sorts, classifies, identifies, and continuously displays signals within their frequency band.

**II. CURRENT FUNDING**

SHIPTYPE: LHA REPLACEMENT	FY07
MAJOR HARDWARE	9,758
SPARES	130
ENGINEERING SUPPORT	399
SOFTWARE & PROGRAMMING	667
OTHER COSTS	872
TOTAL	11,826

**III. CONTRACT DATA:**

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY07	LHA 6	Raytheon	1	9,758	JUL 05

**IV. DELIVERY DATA:**

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
FY07	LHA 6	Dec 11	37 Months	30 Months	May 06

**V. COMPETITION/SECOND SOURCE INITIATIVES:**

N/A

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

**P-35 EXHIBIT  
 FY08/09 PRESIDENT'S BUDGET  
 FEBRUARY 2007**

**ITEM: COMMAND, CONTROL, COMMUNICATION, COMPUTER, INTELLIGENCE, SURVEILANCE, AND RECONNAISSANCE (C4ISR)**

**I. DESCRIPTION/CHARACTERISTIC/PURPOSE:** The Command, Control, Communication, Computer, Intelligence, Surveillance, and Reconnaissance (C4ISR) system provides the link between the ship, the command hierarchy and other units of the operation force.

**II. CURRENT FUNDING**

SHIPTYPE: LHA REPLACEMENT	FY07
MAJOR HARDWARE	79,609
TECH DATA & DOC	2,626
SPARES	3,458
ENGINEERING SUPPORT	24,106
SOFTWARE & PROGRAMMING	3,871
OTHER COSTS	7,010
<b>TOTAL</b>	<b>120,680</b>

**III. CONTRACT DATA:**

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY07	LHA 6	VARIOUS	1	VARIOUS	VARIOUS

**IV. DELIVERY DATA:**

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
FY07	LHA 6	Dec 11	VARIOUS	VARIOUS	VARIOUS

**V. COMPETITION/SECOND SOURCE INITIATIVES**

N/A

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

**P-35 EXHIBIT  
 FY08/09 PRESIDENT'S BUDGET  
 FEBRUARY 2007**

**ITEM: AN/USG-2 COOPERATIVE ENGAGEMENT CAPABILITY (CEC)**

**I. DESCRIPTION/CHARACTERISTIC/PURPOSE:** AN/USG-2 Cooperative Engagement Capability (CEC) significantly improves Battle Force Anti-Air Warfare (AAW) capability (CEC) by coordinating all Battle Force AAW sensors into a single, real-time, composite track picture capable of fire control quality. CEC distributes sensor data from each ship and aircraft, or cooperating unit (CU), to all other CU's in the battle force through a real-time, line of sight, high data rate sensor and engagement data distribution network. CEC data is presented as a superset of the best AAW sensor capabilities from each CU, all of which are integrated into a single input to each CU's combat weapons system. Moreover, CEC will provide critical connectivity and integration of over-land air defense systems capable of countering emerging air threats, including land attack cruise missiles, in a complex littoral environment. CEC consists of the DATA Distribution System (DDS), the Cooperative Engagement Processor (CEP), and Combat System modifications. The DDS encodes and distributes ownship sensor and providing a precision gridlocking and high throughput of data. The CEP is a high capacity distributed processor that is able to process force levels of data in a timely manner, allowing its output to be considered real-time fire control data.

**II. CURRENT FUNDING**

SHIPTYPE: LHA REPLACEMENT	FY07
MAJOR HARDWARE	6,720
SPARES	1,901
ENGINEERING SPT	965
SOFTWARE & PROGRAMMING	4,709
OTHER COSTS	705
<b>TOTAL</b>	<b>15,000</b>

**III. CONTRACT DATA:**

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY07	LHA 6	Raytheon	1	6,720	JAN 06

**IV. DELIVERY DATA:**

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
FY07	LHA 6	Dec 11	37 Months	18 Months	May 07

**V. COMPETITION/SECOND SOURCE INITIATIVES**

N/A

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

**P-35 EXHIBIT  
 FY08/09 PRESIDENT'S BUDGET  
 FEBRUARY 2007**

**ITEM: SHIP SELF DEFENSE SYSTEM (SSDS)**

**I. DESCRIPTION/CHARACTERISTIC/PURPOSE:** The SSDS MK2 provides selected ships with greater capability to defend themselves against Anti-Ship Cruise Missile (ASCM) attacks.

**II. CURRENT FUNDING**

SHIPTYPE: LHA REPLACEMENT	FY07
MAJOR HARDWARE	15,616
SPARES	937
ENGINEERING SPT	6,130
SOFTWARE & PROGRAMMING	7,023
OTHER COSTS	9,679
<b>TOTAL</b>	<b>39,385</b>

**III. CONTRACT DATA:**

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY07	LHA 6	Raytheon	1	15,616	Apr 07

**IV. DELIVERY DATA:**

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
FY07	LHA 6	Dec 11	37 Months	18 Months	May 07

**V. COMPETITION/SECOND SOURCE INITIATIVES**

N/A

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

**P-35 EXHIBIT  
 FY08/09 PRESIDENT'S BUDGET  
 FEBRUARY 2007**

**ITEM: DISTRIBUTED COMMON GROUND SYSTEM (DCGS-N)**

**I. DESCRIPTION/CHARACTERISTIC/PURPOSE:** The Distributed Common Ground System is a shipboard digital imagery system with the capability to receive, process, exploit, store and disseminate imagery products and imagery derived intelligence reports based upon multi-source imagery from national and tactical sensors. The primary purpose of DCGS-N is to increase the self-sufficiency afloat of tactical aviators and strike, naval fire support and expeditionary force planners in the precision delivery of ordnance.

**II. CURRENT FUNDING**

SHIPTYPE: LHA REPLACEMENT	FY07
MAJOR HARDWARE	11,168
SPARES	1,498
ENGINEERING SPT	6,656
OTHER COSTS	938
<b>TOTAL</b>	<b>20,260</b>

**III. CONTRACT DATA:**

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY07	LHA 6	TBD	1	11,168	TBD

**IV. DELIVERY DATA:**

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
FY07	LHA 6	Dec 11	TBD	TBD	TBD

**V. COMPETITION/SECOND SOURCE INITIATIVES**

TBD

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

**P-35 EXHIBIT  
 FY08/09 PRESIDENT'S BUDGET  
 FEBRUARY 2007**

**ITEM: BATTLE FORCE TACTICAL TRAINING (BFTT) SYSTEM AND INTEGRATION**

**I. DESCRIPTION/CHARACTERISTIC/PURPOSE:** The AN/USQ-T46(V)BFTT System provides standardized combat system team proficiency training for the Surface Fleet in accordance with the Afloat Training Strategy. BFTT interfaces to and/or provides an integrated training capability for the primary combat system elements.

**II. CURRENT FUNDING**

SHIPTYPE: LHA REPLACEMENT	FY07
MAJOR HARDWARE	6,026
SPARES	263
ENGINEERING SPT	1,305
SOFTWARE & PROGRAMMING	1,088
OTHER COSTS	2,191
<b>TOTAL</b>	<b>10,873</b>

**III. CONTRACT DATA:**

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY07	LHA 6	VARIOUS	1	6,026	VARIOUS

**IV. DELIVERY DATA:**

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
FY07	LHA 6	Dec 11	37 Months	12	Nov 07

**V. COMPETITION/SECOND SOURCE INITIATIVES:**

N/A

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

**P-35 EXHIBIT  
 FY08/09 PRESIDENT'S BUDGET  
 FEBRUARY 2007**

**ITEM: INTEGRATED VOICE NETWORK (IVN)**

**I. DESCRIPTION/CHARACTERISTIC/PURPOSE:** The Integrated Voice Network (IVN) system provides replacement of current unsupported, labor intensive shipboard tactical interior communication systems. IVN provides increased video, voice and data communications capability, and decreases the number of handsets and terminals in confined operational spaces onboard ship. IVN provides all interfaces to C41 installations onboard ship.

**II. CURRENT FUNDING**

SHIPTYPE: LHA REPLACEMENT	FY07
MAJOR HARDWARE	12,443
TECH DATA & DOC	102
ENGINEERING SUPPORT	944
OTHER COSTS	1,335
<b>TOTAL</b>	<b>14,824</b>

**III. CONTRACT DATA:**

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY07	LHA 6	Avaya	1	12,443	VARIOUS

**IV. DELIVERY DATA:**

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
FY07	LHA 6	Dec 11	9 months	7 Months	Aug 10

**V. COMPETITION/SECOND SOURCE INITIATIVES**

Non-Competitive/Sole Source Production Contract/CPAF

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

**P-35 EXHIBIT  
 FY08/09 PRESIDENT'S BUDGET  
 FEBRUARY 2007**

**ITEM: MK12 IFF**

**I. DESCRIPTION/CHARACTERISTIC/PURPOSE:** The Interrogator System AN/UPX-29 (V) is deployed on high capability, state of the art surface platforms that require Identification Friend or Foe (IFF) operational performance beyond that provided by a standard Mark XII system for combat identification.

**II. CURRENT FUNDING**

SHIPTYPE: LHA REPLACEMENT	FY07
MAJOR HARDWARE	4,602
SPARES	733
ENGINEERING SUPPORT	1,040
SOFTWARE & PROGRAMMING	200
OTHER COSTS	760
TOTAL	7,335

**III. CONTRACT DATA:**

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY07	LHA 6	VARIOUS	1	4,602	VARIOUS

**IV. DELIVERY DATA:**

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
FY07	LHA 6	Dec 11	37 Months	24 Months	Nov 06

**V. COMPETITION/SECOND SOURCE INITIATIVES**

N/A

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

**P-35 EXHIBIT  
 FY08/09 PRESIDENT'S BUDGET  
 FEBRUARY 2007**

**ITEM: AN/SRC-55 HYDRA**

**I. DESCRIPTION/CHARACTERISTIC/PURPOSE:** Provides critical wireless voice communication nets in support of shipboard operations.

**II. CURRENT FUNDING**

SHIPTYPE: LHA REPLACEMENT	FY07
MAJOR HARDWARE	2,553
SPARES	34
ENGINEERING SUPPORT	964
OTHER COSTS	503
<b>TOTAL</b>	<b>4,054</b>

**III. CONTRACT DATA:**

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY07	LHA 6	M/A COM	1	2,553	FY08

**IV. DELIVERY DATA:**

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
FY07	LHA 6	Dec 11	23 Months	6 Months	Jul 09

**V. COMPETITION/SECOND SOURCE INITIATIVES**

N/A

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

**P-35 EXHIBIT  
 FY08/09 PRESIDENT'S BUDGET  
 FEBRUARY 2007**

**ITEM: AN/TPX-42A(V) Amphibious Air Traffic Control Direct Altitude & Identify Readout**

**I. DESCRIPTION/CHARACTERISTIC/PURPOSE:** The AN/TPX42A(V)14 system is designed to provide improved flight data processing, tracking and display capabilities for Air Traffic Control centers. They provide air traffic controllers with identity, altitude and current status on aircraft within 50 NMI of the aviation capable platform. IFF and radar targets are automatically tracked by the system and can be electronically handed off Ship Self Defense System.

**II. CURRENT FUNDING**

SHIPTYPE: LHA REPLACEMENT	FY07
MAJOR HARDWARE	3,099
SPARES	158
ENGINEERING SUPPORT	653
SOFTWARE & PROGRAMMING	219
OTHER COSTS	519
<b>TOTAL</b>	<b>4,648</b>

**III. CONTRACT DATA:**

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY07	LHA 6	NAWC-AD	1	3,099	MAR 06

**IV. DELIVERY DATA:**

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
FY07	LHA 6	Dec 11	37 Months	24 Months	Nov 06

**V. COMPETITION/SECOND SOURCE INITIATIVES**

N/A

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

**P-35 EXHIBIT  
 FY08/09 PRESIDENT'S BUDGET  
 FEBRUARY 2007**

**ITEM : AN/SPN-35C**

**I. DESCRIPTION/CHARACTERISTIC/PURPOSE:** Precision approach radar used for aircraft recovery during adverse weather conditions and night conditions.

**II. CURRENT FUNDING**

SHIPTYPE: LHA REPLACEMENT	FY07
MAJOR HARDWARE	2,925
ENGINEERING SUPPORT	841
OTHER COSTS	693
<b>TOTAL</b>	<b>4,459</b>

**III. CONTRACT DATA:**

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY07	LHA 6	NAWC-AD	1	2,925	JUL 05

**IV. DELIVERY DATA:**

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
FY07	LHA 6	Dec 11	37 Months	24 Months	Nov 06

**V. COMPETITION/SECOND SOURCE INITIATIVES**

N/A

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

**P-35 EXHIBIT  
 FY08/09 PRESIDENT'S BUDGET  
 FEBRUARY 2007**

**ITEM: AN/WSN-7 RLGN**

**I. DESCRIPTION/CHARACTERISTIC/PURPOSE:** Provides realtime navigation data for use by navigation and combat systems.

**II. CURRENT FUNDING**

SHIPTYPE: LHA REPLACEMENT	FY07
MAJOR HARDWARE	2,020
SPARES	663
ENGINEERING SUPPORT	883
SOFTWARE & PROGRAMMING	102
OTHER COSTS	641
TOTAL	4,309

**III. CONTRACT DATA:**

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY07	LHA 6	Sperry Marine	1	2,020	MAY 07

**IV. DELIVERY DATA:**

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
FY07	LHA 6	Dec 11	37 Months	24 Months	Nov 07

**V. COMPETITION/SECOND SOURCE INITIATIVES**

N/A

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

**P-35 EXHIBIT  
 FY08/09 PRESIDENT'S BUDGET  
 FEBRUARY 2007**

**ITEM: AN/SPS-48 RADAR (Refurbished)**

**I. DESCRIPTION/CHARACTERISTIC/PURPOSE:** The AN/SPS-48 Radar is a three-coordinate air search radar whose primary function is to provide target position data to a weapon system. Collateral functions include air traffic and intercept control.

**II. CURRENT FUNDING**

SHIPTYPE: LHA REPLACEMENT	FY07
MAJOR HARDWARE	11,373
SPARES	226
ENGINEERING SPT	921
SOFTWARE & PROGRAMMING	666
OTHER COSTS	2,366
TOTAL	15,552

**III. CONTRACT DATA:**

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY07	LHA 6	ITT/Gilfillan	1	11,373	Sep 06

**IV. DELIVERY DATA:**

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
FY07	LHA 6	Dec 11	37 Months	30	May 06

**V. COMPETITION/SECOND SOURCE INITIATIVES:**

N/A

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

**P-35 EXHIBIT  
 FY08/09 PRESIDENT'S BUDGET  
 FEBRUARY 2007**

**ITEM: AN/SPS-49 (V)5 RADAR (Refurbished)**

**I. DESCRIPTION/CHARACTERISTIC/PURPOSE:** The AN/SPS-49 Radar is a narrow beam, very long range, two dimensional air search radar. In replacing some older radars which are nearing end-of-life, the AN/SPS-49 offers greatly improved operational performance, reliability and maintainability.

**II. CURRENT FUNDING**

SHIPTYPE: LHA REPLACEMENT	FY07
MAJOR HARDWARE	7,315 *
SPARES	475
ENGINEERING SPT	469
OTHER COSTS	3,262
<b>TOTAL</b>	<b>11,521</b>

**III. CONTRACT DATA:**

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY07	LHA 6	Raytheon	1	7,315	Jul 05/Mar 06

**IV. DELIVERY DATA:**

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
FY07	LHA 6	Dec 11	37 Months	30 Months	May 06

**V. COMPETITION/SECOND SOURCE INITIATIVES:**

N/A

\* Refurbished Item

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

**P-35 EXHIBIT  
 FY08/09 PRESIDENT'S BUDGET  
 FEBRUARY 2007**

**ITEM: CLOSE-IN WEAPONS SYSTEM (CIWS)**

**I. DESCRIPTION/CHARACTERISTIC/PURPOSE:** A fast reaction terminal defense against low-flying high speed, anti-ship missile penetrating other fleet defensive envelopes. The system is an automatic, self contained unit consisting of search and track radar, digitalized fire control and a 20 MM gun on CIWS all mounted in a single above deck structure requiring a minimum of interference with other ship systems.

**II. CURRENT FUNDING**

SHIPTYPE: LHA REPLACEMENT	FY07
MAJOR HARDWARE	9,482
SPARES	736
ENGINEERING SUPPORT	844
OTHER COSTS	569
<b>TOTAL</b>	<b>11,631</b>

**III. CONTRACT DATA:**

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY07	LHA 6	Raytheon	2	4,741	1Q08

**IV. DELIVERY DATA:**

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
FY07	LHA 6	Dec 11	19 Months	22 Months	Jul 08

**V. COMPETITION/SECOND SOURCE INITIATIVES:**

N/A

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

**P-35 EXHIBIT  
 FY08/09 PRESIDENT'S BUDGET  
 FEBRUARY 2007**

**ITEM: AN/SPQ-9B**

**I. DESCRIPTION/CHARACTERISTIC/PURPOSE:** The AN/SPQ-9B is a multimode, X-Band, narrow beam, pulse Doppler radar that detects all known projected sea skimming missiles at the horizon in heavy clutter, while simultaneously providing detection and tracking of surface targets and beacon responses.

**II. CURRENT FUNDING**

SHIPTYPE: LHA REPLACEMENT	FY07
MAJOR HARDWARE	6,806
SPARES	428
ENGINEERING SUPPORT	1,086
SOFTWARE & PROGRAMMING	135
OTHER COSTS	680
<b>TOTAL</b>	<b>9,135</b>

**III. CONTRACT DATA:**

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY07	LHA 6	Northrop Grumman	1	6,806	Feb 06

**IV. DELIVERY DATA:**

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
FY07	LHA 6	Dec 11	37 Months	18 Months	May 07

**V. COMPETITION/SECOND SOURCE INITIATIVES:**

N/A

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

**P-35 EXHIBIT  
 FY08/09 PRESIDENT'S BUDGET  
 FEBRUARY 2007**

**ITEM: NATO SEASPARROW SURFACE MISSILE SYSTEM (NSSMS)**

**I. DESCRIPTION/CHARACTERISTIC/PURPOSE:** The NSSMS consists of a guided missile fire control system containing a power driven illuminator with bore sight television below deck control, digital computation, lightweight/low silhouette in an eight cell type launcher.

**II. CURRENT FUNDING**

SHIPTYPE: LHA REPLACEMENT	FY07
MAJOR HARDWARE	14,301
SPARES	870
ENGINEERING SUPPORT	4,928
SOFTWARE & PROGRAMMING	2,196
OTHER COSTS	4,195
<b>TOTAL</b>	<b>26,490</b>

**III. CONTRACT DATA:**

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY07	LHA 6	Raytheon	2	7,151	Dec 06

**IV. DELIVERY DATA:**

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
FY07	LHA 6	Dec 11	37 months	24 Months	Dec-06

**V. COMPETITION/SECOND SOURCE SELECTION:**

N/A

SHIPBUILDING AND CONVERSION, NAVY  
 MAJOR SHIP COMPONENT FACT SHEET  
 (\$000)

**P-35 EXHIBIT  
 FY08/09 PRESIDENT'S BUDGET  
 FEBRUARY 2007**

**ITEM: ROLLING AIRFRAME MISSILE (RAM) (Refurbished)**

**I. DESCRIPTION/CHARACTERISTIC/PURPOSE:** RAM is a lightweight, quick reaction high firepower missile system designed to provide anti-ship defense. The system is comprised of a MK44 Guided Missile Round Pack (GMRP) and the MK49 Guided Missile Launching System (GMLS) which holds 21 RAM missiles. This system is designed to counter high density anti-ship cruise missile raids and provides for ship survivability with accurate terminal guidance, proven lethality and no fire control channel dependence.

**II. CURRENT FUNDING**

SHIPTYPE: LHA REPLACEMENT	FY07
MAJOR HARDWARE	15,514
SPARES	119
ENGINEERING SUPPORT	6,508
OTHER COSTS	3,628
<b>TOTAL</b>	<b>25,769</b>

**III. CONTRACT DATA:**

PROGRAM YEAR	SHIPTYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY07	LHA 6	Raytheon	2	7,757	Mar 07 *

\* First launcher to be refurbished and delivered to NGSS Nov 2008; 2nd launcher to be refurbished and delivered to NGSS Jan 2010

**IV. DELIVERY DATA:**

PROGRAM YEAR	SHIPTYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE SHIP DEL	PRODUCTION LEAD TIME	REQUIRED AWARD
FY07	LHA 6	Dec 11	37 Months	24 Months	Mar-07

**V. COMPETITION/SECOND SOURCE INITIATIVES:**

N/A

CLASSIFICATION: UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET (P-40) FY 2008/FY2009 PRESIDENT'S BUDGET								DATE: February 2007																																																									
APPROPRIATION/BUDGET ACTIVITY/BUDGET LINE ITEM SHIPBUILDING AND CONVERSION, NAVY/BA-3/BLI 3043								P-1 ITEM NOMENCLATURE INTRATHEATER CONNECTOR (Joint High Speed Vessel)																																																									
	PRIOR YEAR	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TO COMPLETE	TOTAL PROGRAM																																																						
QUANTITY	0	0	0	0	1	1	1	0	0	0	3																																																						
End Cost	0.0	0.0	0.0	0.0	174.7	174.3	181.9	0.0	0.0	0.0	530.9																																																						
Full Funding TOA	0.0	0.0	0.0	0.0	174.7	174.3	181.9	0.0	0.0	0.0	530.9																																																						
Total Obligational Authority	0.0	0.0	0.0	0.0	174.7	174.3	181.9	0.0	0.0	0.0	530.9																																																						
Plus Outfitting and Post Delivery	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.4	21.4																																																						
Total	0.0	0.0	0.0	0.0	174.7	174.3	181.9	0.0	0.0	0.0	530.9																																																						
Unit Cost (Ave. End Cost)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	177.0																																																						
<p><b>MISSION:</b>            Future joint forces will be responsive, deployable, agile, versatile, lethal, survivable, and sustainable. The nation will need lift assets that can provide for assured access, decrease predictability and dwell time and have the capacity to quickly deliver troops and equipment together in a manner that provides for unit integrity. Joint High Speed Vessel (JHSV) will provide combatant commanders high-speed intra-theater sealift mobility with inherent cargo handling capability and the agility to achieve positional advantage over operational distances. Not limited to major ports, the JHSV will be able to operate in austere port environments. The Joint High Speed Vessel is one of three programs in the Department's "Capital Account Pilot Program."</p>																																																																	
<table border="0"> <tr> <td colspan="3"><u>Characteristics:</u></td> <td colspan="3"><u>Production Status</u></td> </tr> <tr> <td><u>Hull</u></td> <td>Pending Source Selection</td> <td></td> <td>Contract Plans</td> <td></td> <td><u>0901</u></td> </tr> <tr> <td>Length overall</td> <td>Less than 450ft</td> <td></td> <td>Award Planned (Month)</td> <td></td> <td>Mar-09</td> </tr> <tr> <td>Beam</td> <td>PANAMAX</td> <td></td> <td>Months to Complete</td> <td></td> <td></td> </tr> <tr> <td>Displacement</td> <td>TBD</td> <td></td> <td>a) Award to Delivery</td> <td></td> <td>26</td> </tr> <tr> <td>Draft</td> <td>Less than 15 ft</td> <td></td> <td>b) Construction Start to Delivery</td> <td></td> <td>24</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Commissioning Date</td> <td></td> <td>TBD</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Completion of Fitting-Out</td> <td></td> <td>Jul-11</td> </tr> <tr> <td><u>Armament:</u></td> <td>N/A</td> <td></td> <td><u>Major Electronics:</u></td> <td></td> <td>TBD</td> </tr> </table>												<u>Characteristics:</u>			<u>Production Status</u>			<u>Hull</u>	Pending Source Selection		Contract Plans		<u>0901</u>	Length overall	Less than 450ft		Award Planned (Month)		Mar-09	Beam	PANAMAX		Months to Complete			Displacement	TBD		a) Award to Delivery		26	Draft	Less than 15 ft		b) Construction Start to Delivery		24				Commissioning Date		TBD				Completion of Fitting-Out		Jul-11	<u>Armament:</u>	N/A		<u>Major Electronics:</u>		TBD
<u>Characteristics:</u>			<u>Production Status</u>																																																														
<u>Hull</u>	Pending Source Selection		Contract Plans		<u>0901</u>																																																												
Length overall	Less than 450ft		Award Planned (Month)		Mar-09																																																												
Beam	PANAMAX		Months to Complete																																																														
Displacement	TBD		a) Award to Delivery		26																																																												
Draft	Less than 15 ft		b) Construction Start to Delivery		24																																																												
			Commissioning Date		TBD																																																												
			Completion of Fitting-Out		Jul-11																																																												
<u>Armament:</u>	N/A		<u>Major Electronics:</u>		TBD																																																												

UNCLASSIFIED  
CLASSIFICATION

P-5 EXHIBIT  
FY 2008/FY2009 PRESIDENT'S BUDGET  
February 2007

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

APPROPRIATION: SHIPBUILDING AND CONVERSION, NAVY

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BUDGET ACTIVITY: BA-3	P-1 ITEM NOMENCLATURE: INTRATHEATER CONNECTOR	SUBHEAD: TBD
BUDGET LINE ITEM: 3043	(Joint High Speed Vessel)	

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ELEMENT OF COST	FY 2009	
	QTY	TOT COST
PLAN COSTS		0
BASIC CONST/CONVERSION	1	152,656
CHANGE ORDERS		8,610
ELECTRONICS		8,839
PROPULSION EQUIPMENT		0
HM&E		3,542
OTHER COST		1,022
ORDNANCE		0
ESCALATION		0
TOTAL SHIP ESTIMATE		174,669
NET P-1 LINE ITEM		174,669

UNCLASSIFIED  
CLASSIFICATION

P-27 EXHIBIT  
FY 2008/FY2009 PRESIDENT'S BUDGET  
February 2007

SHIPBUILDING AND CONVERSION, NAVY  
SHIP PRODUCTION SCHEDULE

SHIP TYPE	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
JHSV 0901	TBD	2009	Mar-09	May-09	May-11





UNCLASSIFIED  
CLASSIFICATION

P-27 EXHIBIT  
FY 2008/FY2009 PRESIDENT'S BUDGET SUBMISSION (\$M)  
February 2007

SHIPBUILDING AND CONVERSION, NAVY  
SHIP PRODUCTION SCHEDULE

SHIP TYPE	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
Special Purpose	TBD	2007	TBD	TBD	TBD

BUDGET ITEM JUSTIFICATION SHEET (P-40) FY 2008/FY2009 PRESIDENT'S BUDGET									DATE: February 2007		
APPROPRIATION/BUDGET ACTIVITY/BUDGET LINE ITEM SHIPBUILDING AND CONVERSION, NAVY/BA-5/BLI 5087									P-1 ITEM NOMENCLATURE AGOR Oceanographic Class		
	PRIOR YEAR	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TO COMPLETE	TOTAL PROGRAM
QUANTITY	0	0	1	0	0	0	1	1	0	0	3
End Cost	0.0	0.0	116.5	0.0	0.0	0.0	92.5	92.5	0.0	0.0	301.5
Full Funding TOA	0.0	0.0	116.5	0.0	0.0	0.0	92.5	92.5	0.0	0.0	301.5
Total Obligational Authority	0.0	0.0	116.5	0.0	0.0	0.0	92.5	92.5	0.0	0.0	301.5
Plus Outfitting and Post Delivery	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.0	0.0	116.5	0.0	0.0	0.0	92.5	92.5	0.0	0.0	301.5
Unit Cost (Ave. End Cost)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.5
<b>MISSION:</b>											
The 2007 Department of Defense Appropriations Act included a Congressional add for T-AGS Oceanographic Survey Ship. The ship will be capable of deep ocean and coastal surveys, oceanographic sampling and data collections of surface, midwater and ocean floor parameters, shipboard oceanographic data processing and sample analysis, and operation of remotely operated vehicles (AUVs) and hydrographic survey launches (HSLs). In FY11 and FY12, funds are added for a new class of general purpose research vessels (called AGOR Ocean), designed for integrated, interdisciplinary research that will support science, educational, and engineering operations in all oceans.											
<b>Characteristics:</b>											
<u>Hull</u>			<u>Production Status</u>								
Length overall	353 ft	Contract Plans			0701						
Beam	58 ft	Award Planned (Month)			Mar-08						
Displacement	5,144 LT	Months to Complete									
Draft	18 ft	a) Award to Delivery			40						
		b) Construction Start to Delivery			36						
		Commissioning Date			TBD						
		Completion of									
		Fitting-Out			Sep-11						
<u>Armament:</u> N/A			<u>Major Electronics:</u>			TBD					

UNCLASSIFIED  
CLASSIFICATION

P-5 EXHIBIT  
FY 2008/FY2009 PRESIDENT'S BUDGET  
February 2007

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

APPROPRIATION: SHIPBUILDING AND CONVERSION, NAVY

BUDGET ACTIVITY: BA-5  
BUDGET LINE ITEM: 5087

P-1 ITEM NOMENCLATURE: AGOR Oceanographic Class

SUBHEAD: 1599

ELEMENT OF COST	QTY	FY 2007
		TOT COST
PLAN COSTS		4,000
BASIC CONST/CONVERSION	1	77,633
CHANGE ORDERS		3,388
ELECTRONICS		22,023
PROPULSION EQUIPMENT		0
HM&E		6,962
OTHER COST		2,500
ORDNANCE		0
ESCALATION		0
TOTAL SHIP ESTIMATE		116,506
NET P-1 LINE ITEM		116,506

UNCLASSIFIED  
CLASSIFICATION

UNCLASSIFIED  
CLASSIFICATION

P-27 EXHIBIT  
FY 2008/FY2009 PRESIDENT'S BUDGET  
February 2007

SHIPBUILDING AND CONVERSION, NAVY  
SHIP PRODUCTION SCHEDULE

SHIP TYPE	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
AGOR 0701	TBD	2007	Mar-08	Jul-08	Jul-11

UNCLASSIFIED  
CLASSIFICATION

OUTFITTING

P-40

CLASSIFICATION: UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET (P-40)											February 2007	
FY 08 President's Budget (\$M)												
APPROPRIATION/BUDGET ACTIVITY BA 5, Auxiliaries and Craft										P-1 ITEM NOMENCLATURE OUTFITTING		BLI 5110
	PY	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	CTC	TOTAL	
Full Funding TOA-Outfitting	407.2	131.6	154.6	180.4	166.0	199.2	164.2	158.1	129.1	710.6	2,400.9	
Hurricane Supplemental Funding (OF)	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.0	
Full Funding TOA-Post Delivery	437.6	228.4	211.5	235.1	251.0	238.5	238.9	259.4	297.0	483.3	2,880.7	
Hurricane Supplemental Funding (PD)	0.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.7	
Full Funding TOA-First Destination	7.3	4.3	3.0	4.4	4.8	5.6	5.7	5.8	5.9	TBD	46.7	
<b>Total Obligational Authority</b>	<b>852.1</b>	<b>372.0</b>	<b>369.1</b>	<b>419.8</b>	<b>421.8</b>	<b>443.3</b>	<b>408.8</b>	<b>423.2</b>	<b>432.0</b>	<b>1,193.9</b>	<b>5,336.1</b>	

MISSION:

Outfitting funds are used to acquire on board repair parts, other secondary items, equipage, recreation items, precommissioning crew support and general use consumables furnished to the shipbuilder or the fitting-out activity to fill the ship's initial allowances as defined by the baseline Coordinated Shipboard Allowance List (COSAL). The program also budgets for contractor-furnished spares, a lead-time away from delivery. The program ensures operational readiness of ships undergoing new construction, conversion, ship life extension program, and nuclear refueling. It ensures these ships receive their full allowances of spare parts and equipment which are vitally required to support the shipboard maintenance process; ensures ships are equipped with operating space items (tools, test equipment, damage control), personnel safety and survivability commodities for successful completion of builder sea trials; supports shipboard maintenance and thereby achieving the OPNAV-directed Supply Readiness goals for material on board ship at delivery. SCN funding for the initial fill of allowance list items is limited to those items on the COSAL and authorized requirements through the Obligation Work Limiting Date (OWLD).

\* FY06 Full Funding TOA-Outfitting does not include \$2.7M for Hurricane Katrina impacts.

Post Delivery funding covers the fixing of government-responsible items which were believed to have been complete to standard and/or operable at delivery, as well as funding to conduct tests and trials after delivery. It is essential to deliver to the Fleet complete ships, free from both contractor and government responsible deficiencies, capable of supporting the Navy's mission from the first day of service. The Post Shakedown Availability (PSA) is a shipyard availability assigned to commence after delivery and to be completed prior to the expiration of the SCN OWLD. It is during this time that Acceptance and Final Contract Trials deficiencies will be corrected. The purpose of the PSA is to accomplish correction of new construction deficiencies found during the shakedown period which are authorized; correction of other contractor and government responsible deficiencies previously authorized; and accomplishment of other improvements or class items as authorized. Funding is used for corrections authorized by the Ship Program Manager as a result of builders' trials (pre-delivery), acceptance or underway trials, final contract trials, trial board items, and correction of production-related defects or deficiencies which develop during the Post Delivery period.

\* FY06 Full Funding TOA-Post Delivery does not include \$25.6M for LPD 17 Hurricane Katrina impacts.

First Destination Transportation (FDT) finances the movement of newly procured equipment and materials from the contractor's plant to the initial point of receipt by the government.

The Outfitting, Post Delivery and First Destination Transportation program is a separate budget line item in the SCN appropriation and while not part of the end cost of the ship, is subject to the OWLD.

FY	Ship Class	Hull #	Contract Award	Start of Constr.	DEL DATE	CFO	PSA START	PSA FINISH	OWLD	PY OF	FY 06 OF	FY 07 OF	FY 08 OF	FY 09 OF	CTC OF	TOTAL OF
01	CVN	77	Jan-01	Mar-01	Nov-08	Feb-09	Jun-09	Nov-09	Jan-10	8,144	11,161	34,524	25,185	5,353	-	84,367
08	CVN	78	Dec-07	Mar-08	Sep-15	Nov-15	Jun-16	Sep-16	Oct-16	-	-	-	-	-	97,511	97,511
12	CVN	79	Dec-11	Mar-12	Sep-19	Nov-19	Jun-20	Sep-20	Oct-20	-	-	-	-	-	105,614	105,614
	CVN									8,144	11,161	34,524	25,185	5,353	203,125	287,492
01	CVN-RCOH	69	May-01	May-01	Mar-05	Jul-05	Jun-05	Oct-05	Dec-06	89,811	-	-	-	-	-	89,811
06	CVN-RCOH	70	Nov-05	Nov-05	Mar-09	May-09	Jul-09	Nov-09	Apr-10	2,643	12,712	16,867	26,089	11,662	-	69,973
10	CVN-RCOH	71	Nov-09	Nov-09	Nov-12	Jan-13	Mar-13	Jul-13	Dec-13	-	-	-	-	4,144	71,644	75,788
13	CVN-RCOH	72	Feb-13	Feb-13	Feb-16	Apr-16	Jun-16	Sep-16	Mar-17	-	-	-	-	-	80,479	80,479
	CVN-RCOH									92,454	12,712	16,867	26,089	15,806	152,123	316,051
99	DDG	94	Mar-98	Sep-01	Dec-04	Feb-05	Sep-05	Dec-05	Jan-07	18,780	204	100	-	-	-	19,084
99	DDG	95	Mar-98	Jul-01	Aug-04	Dec-04	Jul-05	Oct-05	May-06	15,934	439	-	-	-	-	16,373
00	DDG	96	Mar-98	May-02	Jun-05	Oct-05	May-06	Aug-06	Sep-06	17,643	293	-	-	-	-	17,936
00	DDG	97	Mar-98	Dec-01	Jan-05	May-05	Jan-06	Apr-06	Jun-06	16,056	1,325	-	-	-	-	17,381
00	DDG	98	Mar-98	Jul-02	Aug-05	Dec-05	Aug-06	Nov-06	May-07	16,573	458	-	-	-	-	17,031
01	DDG	99	Mar-98	Dec-02	Jan-06	May-06	Feb-07	May-07	Jun-07	16,097	1,312	500	-	-	-	17,909
01	DDG	100	Mar-98	Jan-03	Dec-06	May-07	Jan-08	Apr-08	Apr-08	12,554	3,518	854	188	-	-	17,114
	DDG 100 Hurricane Katrina Supplemental Funding										1,700	-	-	-	-	1,700
01	DDG	101	Mar-98	Jul-03	Sep-06	Jan-07	Aug-07	Nov-07	Dec-07	9,125	6,832	420	188	-	-	16,565
02	DDG	102	Jul-02	Feb-04	May-07	Oct-07	Jun-08	Sep-08	Sep-08	400	11,645	3,538	188	-	-	15,771
02	DDG	103	Sep-02	May-04	Aug-08	TBD	Aug-09	Nov-09	Nov-09	400	572	8,700	5,090	524	-	15,286
02	DDG	104	Sep-02	Oct-04	Jan-08	May-08	Jan-09	May-09	Apr-09	-	4,855	7,424	2,886	120	-	15,285
03	DDG	105	Sep-02	Apr-05	Dec-08	TBD	Aug-09	Nov-09	Dec-09	-	395	7,793	6,867	127	170	15,352
03	DDG	106	Sep-02	May-05	Aug-08	Dec-08	Jun-09	Sep-09	Nov-09	-	695	8,743	5,823	86	-	15,347
04	DDG	107	Sep-02	Feb-06	Jul-09	Oct-09	Jun-10	Sep-10	Sep-10	-	396	-	8,322	6,422	258	15,398
04	DDG	108	Sep-02	Dec-05	Apr-09	Aug-09	Jan-10	Apr-10	Jul-10	-	396	-	12,888	1,921	178	15,383
04	DDG	109	Sep-02	Jul-06	Nov-09	Mar-10	Aug-10	Nov-10	Feb-11	-	396	-	7,631	6,789	587	15,403
05	DDG	110	Sep-02	May-07	Jul-10	Oct-10	Jun-11	Sep-11	Sep-11	-	-	-	1,072	9,581	4,761	15,414
05	DDG	111	Sep-02	Apr-07	Jun-10	Oct-10	Mar-11	Jun-11	Sep-11	-	-	-	1,072	9,253	5,090	15,415
05	DDG	112	Sep-02	Jan-08	Feb-11	Jun-11	Jan-12	Apr-12	May-12	-	-	-	1,072	5,061	9,288	15,421
	DDG									123,562	35,431	38,072	53,287	39,884	20,332	310,568
07	DDG 1000	1000	Feb-07	Jul-08	Dec-12	TBD	TBD	TBD	Nov-13	-	-	-	-	-	43,322	43,322
07	DDG 1000	1001	Feb-07	Jul-08	Dec-12	TBD	TBD	TBD	Nov-13	-	-	-	-	-	43,322	43,322
09	DDG 1000	1002	Jan-09	Jul-10	Dec-14	TBD	TBD	TBD	Nov-15	-	-	-	-	-	45,069	45,069
10	DDG 1000	1003	Jan-10	Jul-11	Jul-15	TBD	TBD	TBD	Jun-16	-	-	-	-	-	45,974	45,974
11	DDG 1000	1004	Jan-11	Jul-12	Jan-16	TBD	TBD	TBD	Dec-16	-	-	-	-	-	46,893	46,893
12	DDG 1000	1005	Jan-12	Jul-13	Jul-17	TBD	TBD	TBD	Jun-18	-	-	-	-	-	47,831	47,831
13	DDG 1000	1006	Jan-13	Jul-14	Jan-18	TBD	TBD	TBD	Dec-18	-	-	-	-	-	48,788	48,788
	DDG 1000									-	-	-	-	-	321,199	321,199
09	JHSV	901	Mar-09	May-09	May-11	Jul-11	TBD	TBD	Jun-12	-	-	-	-	-	6,999	6,999
10	JHSV	1001	Mar-10	May-10	May-12	Jul-12	TBD	TBD	Jun-13	-	-	-	-	-	7,139	7,139
11	JHSV	1101	Mar-11	May-11	May-13	Jul-13	TBD	TBD	Jun-14	-	-	-	-	-	7,282	7,282
	JHSV									-	-	-	-	-	21,420	21,420
03	LCAC SLEP	9	Dec-02	Jul-03	Aug-05	Aug-05	Mar-06	May-06	Sep-07	133	-	-	-	-	-	133
03	LCAC SLEP	10	Jun-03	Sep-03	Jan-06	Feb-06	Mar-06	May-06	Sep-07	-	-	-	-	-	-	-
03	LCAC SLEP	8	Dec-02	May-03	May-05	Jun-05	Jan-06	Mar-06	Sep-07	133	-	-	-	-	-	133
03	LCAC SLEP	21	Dec-02	Nov-03	Sep-06	Oct-06	Nov-06	Jan-07	Sep-07	175	-	-	-	-	-	175
04	LCAC SLEP	26	Mar-04	Oct-04	Mar-07	Apr-07	May-07	Jun-07	Oct-08	139	-	-	-	-	-	139
04	LCAC SLEP	28	Mar-04	Jan-05	May-07	Jun-07	Jul-07	Aug-07	Oct-08	141	-	-	-	-	-	141
04	LCAC SLEP	39	Mar-04	Mar-05	Aug-07	Sep-07	Oct-07	Nov-07	Oct-08	-	94	-	-	-	-	94
04	LCAC SLEP	40	Mar-04	Jun-05	Oct-07	Nov-07	Dec-07	Jan-07	Oct-08	-	100	-	-	-	-	100
05	LCAC SLEP	37	Jan-05	May-05	Feb-07	Oct-06	May-07	Jun-07	Aug-08	144	-	-	-	-	-	144

<u>FY</u>	<u>Ship Class</u>	<u>Hull #</u>	<u>Contract Award</u>	<u>Start of Constr.</u>	<u>DEL DATE</u>	<u>CFO</u>	<u>PSA START</u>	<u>PSA FINISH</u>	<u>OWLD</u>	<u>PY OF</u>	<u>FY 06 OF</u>	<u>FY 07 OF</u>	<u>FY 08 OF</u>	<u>FY 09 OF</u>	<u>CTC OF</u>	<u>TOTAL OF</u>
05	LCAC SLEP	42	Jan-05	May-05	Aug-07	Sep-07	Oct-07	Nov-07	Aug-08	124	-	-	-	-	-	124
05	LCAC SLEP	45	Jan-05	Feb-06	Aug-07	Sep-07	Oct-07	Nov-07	Aug-08	-	94	-	-	-	-	94
05	LCAC SLEP	43	Jan-05	May-06	Aug-07	Sep-07	Oct-07	Nov-07	Aug-08	-	84	-	-	-	-	84
05	LCAC SLEP	47	Jan-05	Jul-06	Aug-07	Sep-07	Oct-07	Nov-07	Aug-08	-	108	-	-	-	-	108
06	LCAC SLEP	29	Aug-06	Mar-07	Feb-08	Mar-08	Apr-08	May-08	Feb-09	-	70	-	-	-	-	70
06	LCAC SLEP	32	Aug-06	May-07	Feb-08	Mar-08	Apr-08	May-08	Feb-09	-	70	-	-	-	-	70
06	LCAC SLEP	34	Aug-06	Jul-07	Feb-08	Mar-08	Apr-08	May-08	Feb-09	-	89	-	-	-	-	89
06	LCAC SLEP	54	Aug-06	Mar-07	Feb-08	Mar-08	Apr-08	May-08	Feb-09	-	105	-	-	-	-	105
06	LCAC SLEP	68	Aug-06	May-07	Feb-08	Mar-08	Apr-08	May-08	Feb-09	-	70	-	-	-	-	70
07	LCAC SLEP	31	Dec-06	Sep-07	Jul-08	Aug-08	Sep-08	Oct-08	Nov-09	-	-	78	-	-	-	78
07	LCAC SLEP	48	Dec-06	Nov-07	Sep-08	Oct-08	Nov-08	Dec-08	Nov-09	-	-	78	-	-	-	78
07	LCAC SLEP	33	Dec-06	Jan-08	Nov-08	Dec-08	Jan-09	Feb-09	Nov-09	-	-	78	-	-	-	78
07	LCAC SLEP	36	Dec-06	Sep-07	Jul-08	Aug-08	Sep-08	Oct-08	Nov-09	-	-	79	-	-	-	79
07	LCAC SLEP	50	Dec-06	Nov-07	Sep-08	Oct-08	Nov-08	Dec-08	Nov-09	-	-	79	-	-	-	79
07	LCAC SLEP	69	Dec-06	Jan-08	Nov-08	Dec-08	Jan-09	Feb-09	Nov-09	-	-	79	-	-	-	79
08	LCAC SLEP	24	Dec-07	Sep-08	Jul-09	Aug-09	Sep-09	Oct-09	Nov-10	-	-	-	109	-	-	109
08	LCAC SLEP	53	Dec-07	Nov-08	Sep-09	Oct-09	Nov-09	Dec-09	Nov-10	-	-	-	110	-	-	110
08	LCAC SLEP	30	Dec-07	Sep-08	Jul-09	Aug-09	Sep-09	Oct-09	Nov-10	-	-	-	110	-	-	110
08	LCAC SLEP	41	Dec-07	Nov-08	Sep-09	Oct-09	Nov-09	Dec-09	Nov-10	-	-	-	110	-	-	110
08	LCAC SLEP	46	Dec-07	Jan-08	Nov-09	Dec-09	Jan-10	Feb-10	Nov-10	-	-	-	110	-	-	110
09	LCAC SLEP	56	Dec-08	Sep-09	Jul-10	Aug-10	Sep-10	Oct-10	Nov-11	-	-	-	-	102	-	102
09	LCAC SLEP	61	Dec-08	Nov-09	Sep-10	Oct-10	Nov-10	Dec-10	Nov-11	-	-	-	-	102	-	102
09	LCAC SLEP	73	Dec-08	Jan-10	Nov-10	Dec-10	Jan-11	Feb-11	Nov-11	-	-	-	-	102	-	102
09	LCAC SLEP	59	Dec-08	Sep-09	Jul-10	Aug-10	Sep-10	Oct-10	Nov-11	-	-	-	-	102	-	102
09	LCAC SLEP	67	Dec-08	Nov-09	Sep-10	Oct-10	Nov-10	Dec-10	Nov-11	-	-	-	-	-	97	97
09	LCAC SLEP	70	Dec-08	Jan-10	Nov-10	Dec-10	Jan-11	Feb-11	Nov-11	-	-	-	-	-	97	97
10	LCAC SLEP	52	Dec-09	Sep-10	Jul-11	Aug-11	Sep-11	Oct-11	Jan-13	-	-	-	-	-	97	97
10	LCAC SLEP	58	Dec-09	Nov-10	Sep-11	Oct-11	Nov-11	Dec-11	Jan-13	-	-	-	-	-	98	98
10	LCAC SLEP	27	Dec-09	Sep-10	Jul-11	Aug-11	Sep-11	Oct-11	Jan-13	-	-	-	-	-	98	98
10	LCAC SLEP	38	Dec-09	Nov-10	Sep-11	Oct-11	Nov-11	Dec-11	Jan-13	-	-	-	-	-	98	98
10	LCAC SLEP	71	Dec-09	Jan-11	Nov-11	Dec-11	Jan-12	Feb-12	Jan-13	-	-	-	-	-	98	98
10	LCAC SLEP	49	Dec-09	Mar-11	Jan-12	Feb-12	Mar-12	Apr-12	Jan-13	-	-	-	-	-	98	98
11	LCAC SLEP	57	Dec-10	Sep-11	Jul-12	Aug-12	Sep-12	Oct-12	Nov-13	-	-	-	-	-	97	97
11	LCAC SLEP	62	Dec-10	Nov-11	Sep-12	Oct-12	Nov-12	Dec-12	Nov-13	-	-	-	-	-	97	97
11	LCAC SLEP	63	Dec-10	Jan-12	Nov-12	Dec-12	Jan-13	Feb-13	Nov-13	-	-	-	-	-	97	97
11	LCAC SLEP	55	Dec-10	Sep-11	Jul-12	Aug-12	Sep-12	Oct-12	Nov-13	-	-	-	-	-	97	97
11	LCAC SLEP	51	Dec-10	Nov-11	Sep-12	Oct-12	Nov-12	Dec-12	Nov-13	-	-	-	-	-	98	98
11	LCAC SLEP	60	Dec-10	Jan-12	Nov-12	Dec-12	Jan-13	Feb-13	Nov-13	-	-	-	-	-	98	98
12	LCAC SLEP	77	Dec-11	Sep-12	Jul-13	Aug-13	Sep-13	Oct-13	Mar-15	-	-	-	-	-	88	88
12	LCAC SLEP	64	Dec-11	Sep-12	Jul-13	Aug-13	Sep-13	Oct-13	Mar-15	-	-	-	-	-	88	88
12	LCAC SLEP	65	Dec-11	Nov-12	Sep-13	Oct-13	Nov-13	Dec-13	Mar-15	-	-	-	-	-	89	89
12	LCAC SLEP	72	Dec-11	Jan-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-15	-	-	-	-	-	89	89
12	LCAC SLEP	74	Dec-11	Mar-13	Jan-14	Feb-14	Mar-14	Apr-14	Mar-15	-	-	-	-	-	89	89
12	LCAC SLEP	76	Dec-11	May-13	Mar-14	Apr-14	May-14	Jun-14	Mar-15	-	-	-	-	-	89	89
13	LCAC SLEP	75	Dec-12	Sep-13	Jul-14	Aug-14	Sep-14	Oct-14	Jan-16	-	-	-	-	-	54	54
13	LCAC SLEP	79	Dec-12	Nov-13	Sep-14	Oct-14	Nov-14	Dec-14	Jan-16	-	-	-	-	-	54	54
13	LCAC SLEP	78	Dec-12	Sep-13	Jul-14	Aug-14	Sep-14	Oct-14	Jan-16	-	-	-	-	-	54	54
13	LCAC SLEP	83	Dec-12	Nov-13	Sep-14	Oct-14	Nov-14	Dec-14	Jan-16	-	-	-	-	-	54	54
13	LCAC SLEP	84	Dec-12	Jan-14	Nov-14	Dec-14	Jan-15	Feb-15	Jan-16	-	-	-	-	-	54	54
13	LCAC SLEP	85	Dec-12	Mar-14	Jan-15	Feb-15	Mar-15	Apr-15	Jan-16	-	-	-	-	-	55	55
	LCAC SLEP									989	884	471	549	408	2,222	5,523
06	LCS 3	0602	Jun-06	Apr-07	Apr-09	Jul-09	Jan-10	Mar-10	Jun-10	-	-	4,867	4,949	584	-	10,400
06	LCS 4	0603	Dec-06	Jun-07	Jun-09	Aug-09	Feb-10	Apr-10	Jul-10	-	-	1,333	8,344	714	-	10,391
07	LCS 5	0701	Jun-07	Nov-07	Nov-09	Feb-10	Aug-10	Oct-10	Jan-11	-	-	-	-	7,898	1,894	9,792
07	LCS 6	0702	Jun-07	Nov-07	Nov-09	Feb-10	Aug-10	Oct-10	Jan-11	-	-	-	-	7,897	1,895	9,792
08	LCS 7	0801	Oct-07	Mar-08	Mar-10	Jun-10	Jun-11	Aug-11	May-11	-	-	-	-	6,225	3,625	9,850

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08	LCS 8	0802	Oct-07	Mar-08	Mar-10	Jun-10	Jun-11	Aug-11	May-11	-	-	-	-	6,225	3,625	9,850
08	LCS 9	0803	Oct-07	Jun-08	Jun-10	Sep-10	Mar-11	May-11	Aug-11	-	-	-	-	2,573	7,277	9,850
09	LCS 10	0901	Oct-08	Mar-09	Mar-11	Jun-11	Dec-11	Feb-12	May-12	-	-	-	-	-	9,910	9,910
09	LCS 11	0902	Oct-08	Mar-09	Mar-11	Jul-11	Jan-12	Mar-12	Jun-12	-	-	-	-	-	9,910	9,910
09	LCS 12	0903	Oct-08	Jun-09	Jun-11	Sep-11	Mar-12	May-12	Aug-12	-	-	-	-	-	9,910	9,910
09	LCS 13	0904	Oct-08	Jun-09	Jun-11	Sep-11	Mar-12	May-12	Aug-12	-	-	-	-	-	9,910	9,910
09	LCS 14	0905	Oct-08	Sep-09	Sep-11	Dec-11	Jun-12	Aug-12	Nov-12	-	-	-	-	-	9,910	9,910
09	LCS 15	0906	Oct-08	Sep-09	Sep-11	Dec-11	Jun-12	Aug-12	Nov-12	-	-	-	-	-	9,910	9,910
10	LCS 16	1001	Oct-09	Mar-10	Mar-12	Jun-12	Dec-12	Feb-13	May-13	-	-	-	-	-	9,494	9,494
10	LCS 17	1002	Oct-09	Mar-10	Mar-12	Jun-12	Dec-12	Feb-13	May-13	-	-	-	-	-	9,494	9,494
10	LCS 18	1003	Oct-09	Jun-10	Jun-12	Sep-12	Mar-13	May-13	Aug-13	-	-	-	-	-	9,494	9,494
10	LCS 19	1004	Oct-09	Jun-10	Jun-12	Sep-12	Mar-13	May-13	Aug-13	-	-	-	-	-	9,494	9,494
10	LCS 20	1005	Oct-09	Sep-10	Sep-12	Dec-12	Jun-13	Aug-13	Nov-13	-	-	-	-	-	9,494	9,494
10	LCS 21	1006	Oct-09	Sep-10	Sep-12	Dec-12	Jun-13	Aug-13	Nov-13	-	-	-	-	-	9,495	9,495
11	LCS 22	1101	Oct-10	Mar-11	Mar-13	Jun-13	Dec-13	Feb-14	May-14	-	-	-	-	-	9,547	9,547
11	LCS 23	1102	Oct-10	Mar-11	Mar-13	Jul-13	Jan-14	Mar-14	Jun-14	-	-	-	-	-	9,547	9,547
11	LCS 24	1103	Oct-10	Jun-11	Jun-13	Sep-13	Mar-14	May-14	Aug-14	-	-	-	-	-	9,547	9,547
11	LCS 25	1104	Oct-10	Jun-11	Jun-13	Sep-13	Mar-14	May-14	Aug-14	-	-	-	-	-	9,548	9,548
11	LCS 26	1105	Oct-10	Sep-11	Sep-13	Dec-13	Jun-14	Aug-14	Nov-14	-	-	-	-	-	9,548	9,548
11	LCS 27	1106	Oct-10	Sep-11	Sep-13	Dec-13	Jun-14	Aug-14	Nov-14	-	-	-	-	-	9,548	9,548
12	LCS 28	1201	Oct-11	Mar-12	Mar-14	Jun-14	Dec-14	Feb-15	May-15	-	-	-	-	-	9,733	9,733
12	LCS 29	1202	Oct-11	Mar-12	Mar-14	Jul-14	Jan-15	Mar-15	Jun-15	-	-	-	-	-	9,733	9,733
12	LCS 30	1203	Oct-11	Jun-12	Jun-14	Sep-14	Mar-15	May-15	Aug-15	-	-	-	-	-	9,733	9,733
12	LCS 31	1204	Oct-11	Jun-12	Jun-14	Sep-14	Mar-15	May-15	Aug-15	-	-	-	-	-	9,733	9,733
12	LCS 32	1205	Oct-11	Sep-12	Sep-14	Dec-14	Jun-15	Aug-15	Nov-15	-	-	-	-	-	9,733	9,733
12	LCS 33	1206	Oct-11	Sep-12	Sep-14	Dec-14	Jun-15	Aug-15	Nov-15	-	-	-	-	-	9,733	9,733
13	LCS 34	1301	Oct-12	Mar-13	Mar-15	Jun-15	Dec-15	Feb-16	May-16	-	-	-	-	-	9,928	9,928
13	LCS 35	1302	Oct-12	Jun-13	Jun-15	Oct-15	Apr-16	Jun-16	Sep-16	-	-	-	-	-	9,928	9,928
13	LCS 36	1303	Oct-12	Jun-13	Jun-15	Sep-15	Mar-16	May-16	Aug-16	-	-	-	-	-	9,928	9,928
13	LCS 37	1304	Oct-12	Sep-13	Sep-15	Dec-15	Jun-16	Aug-16	Nov-16	-	-	-	-	-	9,928	9,928
13	LCS 38	1305	Oct-12	Sep-13	Sep-15	Dec-15	Jun-16	Aug-16	Nov-16	-	-	-	-	-	9,928	9,928
	LCS									-	-	6,200	13,293	32,116	300,064	351,673
07	LHA( R )	TBD	Feb-07	Nov 07	Dec 11	May 12	Sep 12	Jan 13	Apr 13	-	-	-	-	6,910	42,443	49,353
02	LHD	8	Apr-02	May-03	Mar-08	Aug-08	Feb-09	May-09	Jul-09	11,805	13,694	8,927	7,215	3,122	-	44,763
	LHD Hurricane Katrina Supplemental Funding									-	200	-	-	-	-	200
	LHD Total									11,805	13,894	8,927	7,215	3,122	-	44,963
96	LPD	17	Dec-96	Jun-00	Jul-05	Mar-06	Mar-07	May-07	Mar-08	24,393	2,251	1,536	-	-	-	28,180
99	LPD	18	Dec-98	Feb-02	Dec-06	May-07	Jan-08	Mar-08	Sep-08	21,316	5,281	2,578	-	-	-	29,175
00	LPD	19	Feb-00	Jul-01	Apr-07	Sep-07	May-08	Aug-08	Aug-08	17,108	7,265	5,649	410	-	-	30,432
00	LPD	20	May-00	Oct-02	Jul-08	Dec-08	Jul-09	Sep-09	Nov-09	14,245	1,107	7,216	6,595	132	-	29,295
03	LPD	21	Nov-03	Mar-04	Apr-09	Sep-09	Apr-10	Jun-10	Aug-10	444	6,475	13,691	7,821	1,416	-	29,847
04	LPD	22	Jun-06	Jul-06	Jun-10	Nov-10	Jun-11	Sep-11	Oct-11	-	-	-	7,137	11,715	6,813	25,665
05	LPD	23	Jun-06	Mar-07	Oct-10	Mar-11	Oct-11	Jan-12	Feb-12	-	-	-	-	14,490	11,411	25,901
06	LPD	24	Nov-06	Aug-07	Mar-11	Aug-11	Mar-12	Jun-12	Jul-12	-	-	-	-	11,704	14,433	26,137
08	LPD	25	Nov-07	Feb-08	Oct-11	Feb-12	Sep-12	Dec-12	Jan-13	-	-	-	-	-	26,372	26,372
	LPD									77,506	22,379	30,670	21,963	39,457	59,029	251,004
	LPD Hurricane Katrina Supplemental Funding									-	2,800	-	-	-	-	2,800
	LPD Total									77,506	25,179	30,670	21,963	39,457	59,029	253,804
98	VIRGINIA	774	Sep-98	Aug-97	Oct-04	Oct-04	Jan-06	Jan-07	Jul-07	13,646	1,569	117	-	-	-	15,332
99	VIRGINIA	775	Sep-98	Sep-98	Jun-06	Jun-06	Jan-07	Oct-07	Oct-07	12,742	322	283	361	-	-	13,708
01	VIRGINIA	776	Sep-98	Oct-99	Dec-06	Dec-06	Jan-08	Oct-08	Oct-08	10,090	3,694	315	264	64	-	14,427
02	VIRGINIA	777	Sep-98	Jun-08	Jun-08	Jun-08	Jan-09	Oct-09	Oct-09	8,673	3,505	1,483	607	440	69	14,777
03	VIRGINIA	778	Aug-03	Aug-02	Apr-09	Apr-09	Oct-09	Apr-10	Oct-10	-	7,701	2,644	3,954	221	218	14,738

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04	VIRGINIA	779	Jan-04	Mar-03	Apr-10	Apr-10	Oct-10	Apr-11	Oct-11	-	-	2,772	5,860	5,731	670	15,033
05	VIRGINIA	780	Jan-04	Oct-04	Apr-11	Apr-11	Oct-11	Apr-12	Oct-12	-	-	-	6,339	864	8,131	15,334
06	VIRGINIA	781	Jan-04	Apr-05	Apr-12	Apr-12	Oct-12	Apr-13	Mar-13	-	-	-	164	5,717	9,759	15,640
07	VIRGINIA	782	Jan-04	Aug-06	Apr-13	Apr-13	Oct-13	Apr-14	Mar-14	-	-	-	-	151	15,802	15,953
08	VIRGINIA	783	Jan-04	Aug-07	Apr-14	Apr-14	Oct-14	Apr-15	Mar-15	-	-	-	-	-	16,273	16,273
09	VIRGINIA	784	Oct-08	Aug-08	Apr-15	Apr-15	Oct-15	Apr-16	Mar-16	-	-	-	-	-	16,597	16,597
10	VIRGINIA	785	Oct-08	TBD	TBD	TBD	TBD	TBD	TBD	-	-	-	-	-	16,929	16,929
11	VIRGINIA	1101	Oct-08	TBD	TBD	TBD	TBD	TBD	TBD	-	-	-	-	-	17,268	17,268
12	VIRGINIA	1201	Oct-08	TBD	TBD	TBD	TBD	TBD	TBD	-	-	-	-	-	17,613	17,613
12	VIRGINIA	1202	Oct-08	TBD	TBD	TBD	TBD	TBD	TBD	-	-	-	-	-	17,613	17,613
13	VIRGINIA	1301	Oct-08	TBD	TBD	TBD	TBD	TBD	TBD	-	-	-	-	-	17,966	17,966
13	VIRGINIA	1302	Oct-08	TBD	TBD	TBD	TBD	TBD	TBD	-	-	-	-	-	17,966	17,966
	VIRGINIA									45,151	16,791	7,614	17,549	13,188	172,874	273,167
05	PUBS		N/A	N/A	N/A	N/A	N/A	N/A	N/A	9,854	12,735	5,779	10,146	7,383	49,247	95,144
11	SEABASE	01	Dec-10	Apr-12	Mar-15	Apr-15	May-15	Jul-15	Mar-16	-	-	-	-	-	1,162	1,162
13	SEABASE	02	Mar-13	Jun-14	Sep-16	Oct-16	Nov-16	Jan-17	Sep-17	-	-	-	-	-	1,209	1,209
13	SEABASE	03	Mar-13	Aug-14	Jun-16	Jul-16	Aug-16	Sep-16	Sep-17	-	-	-	-	-	1,209	1,209
13	SEABASE	04	Mar-13	Oct-14	Aug-16	Sep-16	Oct-16	Nov-16	Sep-17	-	-	-	-	-	1,209	1,209
	SEABASE									-	-	-	-	-	4,789	4,789
96	SSN	23	Jun-96	Dec-95	Dec-04	Dec-04	N/A	N/A	Jun-06	16,259					-	16,259
03	SSGN	726	Nov-03	Nov-03	Dec-05	Dec-05	N/A	N/A	Dec-07	2,995	1,132	358	116	-	-	4,601
03	SSGN	728	Mar-04	Apr-04	Apr-06	Apr-06	N/A	N/A	Jan-08	2,665	1,428	258	218	-	-	4,569
04	SSGN	727	Jan-05	Jan-05	Dec-06	Dec-06	N/A	N/A	Nov-07	2,389	383	1,280	51	-	-	4,103
05	SSGN	729	Oct-05	Oct-05	Sep-07	Sep-07	N/A	N/A	Aug-08	2,321	1,743	542	390	-	-	4,996
	SSGN									10,370	4,686	2,438	775	-	-	18,269
05	SSBN ERO	730	Mar-03	Nov-04	Feb-07	Feb-07	N/A	N/A	Jan-08	784	499	271	16	-	-	1,570
06	SSBN ERO	731	May-04	Jan-06	Apr-08	Apr-08	N/A	N/A	Mar-09	-	898	783	58	23	-	1,762
07	SSBN ERO	732	Mar-05	Nov-06	Feb-09	Feb-09	N/A	N/A	Jan-10	-	-	900	733	187	20	1,840
08	SSBN ERO	733	Feb-06	Oct-07	Jan-10	Jan-10	N/A	N/A	Dec-10	-	-	-	990	686	258	1,934
09	SSBN ERO	734	Feb-07	Oct-08	Apr-11	Apr-11	N/A	N/A	Mar-12	-	-	-	N/A	751	1,217	1,968
10	SSBN ERO	735	Feb-08	Oct-09	Apr-12	Apr-12	N/A	N/A	Mar-13	-	-	-	-	-	2,003	2,003
11	SSBN ERO	736	Feb-09	Oct-10	Apr-13	Apr-13	N/A	N/A	Mar-14	-	-	-	-	-	2,037	2,037
	SSBN ERO									784	1,397	1,954	1,797	1,647	5,535	13,114
01	SSN ERO	706	Feb-00	Jul-01	May-03	May-03	N/A	N/A	Apr-04	1,158	-	-	-	-	-	1,158
02	SSN ERO	713	Feb-00	Oct-01	Aug-04	Aug-04	N/A	N/A	Jul-05	2,468	-	-	-	-	-	2,468
02	SSN ERO	715	Oct-00	Jun-02	Nov-04	Nov-04	N/A	N/A	Jan-06	2,090	-	-	-	-	-	2,090
03	SSN ERO	698	Oct-02	Mar-04	Mar-07	Mar-07	N/A	N/A	Feb-08	1,713	213	171	19	-	-	2,116
03	SSN ERO	714	Feb-01	Oct-02	Aug-04	Aug-04	N/A	N/A	Jul-05	1,967	-	-	-	-	-	1,967
04	SSN ERO	699	Oct-03	Sep-04	Jan-07	Jan-07	N/A	N/A	Dec-07	853	259	200	N/A	-	-	1,312
04	SSN ERO	717	Oct-03	Mar-06	May-08	May-08	N/A	N/A	Apr-09	-	882	664	294	33	-	1,873
	SSN ERO									10,249	1,354	1,035	313	33	-	12,984
03	YC	1669	May-04	Jul-04	Sep-05	Nov-05	N/A	N/A	Oct-06	5	-	-	-	-	-	5
04	YC	1670	May-04	Jul-04	Sep-05	Nov-05	N/A	N/A	Oct-06	5	-	-	-	-	-	5
04	YC	1671	May-04	Sep-04	Dec-05	Feb-06	N/A	N/A	Jan-07	5	-	-	-	-	-	5
04	YC	1674	Sep-06	Sep-06	Jun-07	Aug-07	N/A	N/A	Jul-08	-	10	-	-	-	-	10
04	YC	1675	Sep-07	Nov-07	Aug-07	Oct-07	N/A	N/A	Sep-08	-	10	-	N/A	-	-	10
05	YC	1672	Mar-05	Jul-05	Jul-06	Sep-06	N/A	N/A	Aug-07	-	1	-	-	-	-	1
05	YC	1673	Mar-05	Jul-05	Jul-06	Sep-06	N/A	N/A	Aug-07	-	8	-	-	-	-	8
	YC									15	29	-	-	-	-	44
03	YFN	1285	May-04	Jun-04	Dec-05	Feb-06	N/A	N/A	Jan-07	28	-	-	-	-	-	28
04	YFN	1286	May-04	Sep-04	Dec-05	Feb-06	N/A	N/A	Jan-07	28	-	-	-	-	-	28
	YFN									56	-	-	-	-	-	56

FY	Ship Class	Hull #	Contract Award	Start of Constr.	DEL DATE	CFO	PSA START	PSA FINISH	OWLD	PY OF	FY 06 OF	FY 07 OF	FY 08 OF	FY 09 OF	CTC OF	TOTAL OF
03	YON	0322	Jul-03	May-04	Jan-05	Apr-05	N/A	N/A	Mar-06	24	-	-	-	-	-	24
03	YON	0323	Jul-03	Nov-04	Sep-05	Nov-05	N/A	N/A	Oct-06	24	-	-	-	-	-	24
03	YON	0324	Dec-03	Jan-05	Sep-05	Nov-05	N/A	N/A	Oct-06	24	-	-	-	-	-	24
04	YON	0325	Jun-04	May-05	Nov-05	Jan-06	N/A	N/A	Dec-06	27	-	-	-	-	-	27
05	YON	0326	May-05	Oct-05	Dec-06	Feb-07	N/A	N/A	Jan-08	-	31	-	-	-	-	31
06	YON	0327	Jul-06	Dec-06	Aug-07	Oct-07	N/A	N/A	Sep-08	-	35	-	-	-	-	35
07	YON	0328	Jan-07	Mar-07	Nov-07	Jan-08	N/A	N/A	Dec-08	-	-	10	-	-	-	10
08	YON	0801	Jan-08	Mar-08	Nov-08	Jan-09	N/A	N/A	Dec-09	-	-	-	164	-	-	164
08	YON	0802	Jan-08	Mar-08	Nov-08	Jan-09	N/A	N/A	Dec-09	-	-	-	163	-	-	163
09	YON	0901	Jan-09	Mar-09	Nov-09	Jan-10	N/A	N/A	Dec-10	-	-	-	-	204	-	204
10	YON	1001	Jan-10	Mar-10	Nov-10	Jan-11	N/A	N/A	Dec-11	-	-	-	-	-	379	379
11	YON	1101	Jan-11	Mar-11	Nov-11	Jan-12	N/A	N/A	Dec-12	-	-	-	-	-	39	39
12	YON	1201	Jan-12	Mar-12	Dec-12	Feb-13	N/A	N/A	Jan-14	-	-	-	-	-	23	23
13	YON	1301	Jan-13	Mar-13	Nov-13	Jan-14	N/A	N/A	Dec-14	-	-	-	-	-	140	140
	YON									99	66	10	327	204	581	1,287
06	YP	0703	Sep-06	Oct-06	Feb-08	Apr-08	N/A	N/A	Mar-09	-	-	-	373	-	-	373
06	YP	0704	Sep-06	Mar-07	Aug-08	Oct-08	N/A	N/A	Sep-09	-	-	-	373	-	-	373
06	YP	0705	Sep-06	Dec-06	Dec-08	Feb-09	N/A	N/A	Jan-10	-	-	-	373	-	-	373
07	YP	0701	Jun-07	Jun-07	Feb-09	Apr-09	N/A	N/A	Mar-10	-	-	-	373	-	-	373
08	YP	0801	Jun-08	Jun-08	Jun-09	Aug-09	N/A	N/A	Jul-10	-	-	-	374	-	-	374
09	YP	0901	Jan-09	Mar-09	Mar-10	May-10	N/A	N/A	Apr-11	-	-	-	-	506	228	734
10	YP	1001	Jan-10	Mar-10	Mar-11	May-11	N/A	N/A	Apr-12	-	-	-	-	-	1,395	1,395
11	YP	1101	Jan-11	Mar-11	Mar-12	May-12	N/A	N/A	Apr-13	-	-	-	-	-	1,387	1,387
12	YP	1201	Jan-12	Mar-12	Mar-13	May-13	N/A	N/A	Apr-14	-	-	-	-	-	1,592	1,592
13	YP	1301	Jan-13	Mar-13	Feb-14	Apr-14	N/A	N/A	Mar-15	-	-	-	-	-	1,592	1,592
	YP									-	-	-	1,866	506	6,194	8,566
06	YTB	0039	May-06	Jun-06	Jun-07	Aug-07	N/A	N/A	Jul-08	-	-	-	-	-	-	-
06	YTB	0040	May-06	Aug-06	Aug-07	Oct-07	N/A	N/A	Sep-08	-	-	-	-	-	-	-
07	YTB	0701	Jan-07	Mar-07	Mar-08	May-08	N/A	N/A	Apr-09	-	-	-	-	-	-	-
07	YTB	0702	Jan-07	May-07	May-08	Jul-08	N/A	N/A	Jun-09	-	-	-	-	-	-	-
07	YTB	0703	Jan-07	Jul-07	Jun-08	Aug-08	N/A	N/A	Jul-09	-	-	-	-	-	-	-
07	YTB	0704	Jan-08	Jul-08	Jun-09	Aug-09	N/A	N/A	Jul-10	-	-	-	-	-	-	-
	YTB									-	-	-	-	-	-	-
<b>TOTAL OUTFITTING</b>										407,297	136,319	154,561	180,354	166,017	1,361,177	2,405,725

FY	Ship Class	Hull #	Contract Award	Start of Constr.	DEL DATE	CFO	PSA START	PSA FINISH	QWLD	PY PD	FY 06 PD	FY 07 PD	FY 08 PD	FY 09 PD	CTC PD	TOTAL PD
01	CVN	77	Jan-01	Mar-01	Nov-08	Feb-09	Jun-09	Nov-09	Jan-10	-	-	-	5,680	34,877	-	40,557
08	CVN	78	Dec-07	Mar-08	Sep-15	Nov-15	Jun-16	Sep-16	Oct-16	-	-	-	-	-	81,370	81,370
	CVN									-	-	-	5,680	34,877	81,370	121,927
01	CVN-RCOH	69	May-01	May-01	Mar-05	Jul-05	Jun-05	Oct-05	Dec-06	31,592	-	-	-	-	-	31,592
06	CVN-RCOH	70	Nov-05	Nov-05	Mar-09	May-09	Jul-09	Nov-09	Apr-10	-	-	-	623	29,531	-	30,154
10	CVN-RCOH	71	Nov-09	Nov-09	Nov-12	Jan-07	Mar-13	Jul-13	Dec-13	-	-	-	-	-	42,660	42,660
13	CVN-RCOH	72	Feb-13	Feb-13	Feb-16	Apr-16	Jun-16	Sep-16	Mar-17	-	-	-	-	-	59,954	59,954
	CVN-RCOH									31,592	-	-	623	29,531	102,614	164,360
98	DDG	89	Mar-98	Mar-00	Feb-03	Jun-03	Jan-04	Apr-04	May-04	23,853	-	-	-	-	-	23,853
98	DDG	90	Mar-98	Apr-00	Aug-03	Oct-03	May-04	Aug-04	Dec-04	28,047	-	-	-	-	-	28,047
98	DDG	91	Mar-98	Sep-00	Oct-03	Mar-04	Jan-05	Apr-05	Nov-05	29,852	-	-	-	-	-	29,852
98	DDG	92	Mar-98	Dec-00	May-04	Jul-04	May-05	Aug-05	Mar-06	35,239	-	-	-	-	-	35,239
99	DDG	93	Mar-98	Mar-01	Mar-04	Jul-04	Feb-05	May-05	May-06	33,427	-	-	-	-	-	33,427
99	DDG	94	Mar-98	Sep-01	Dec-04	Feb-05	Sep-05	Dec-05	Nov-06	30,291	5,307	-	-	-	-	35,598
99	DDG	95	Mar-98	Jul-01	Aug-04	Dec-04	Jul-05	Oct-05	May-06	28,822	2,096	-	-	-	-	30,918
00	DDG	96	Mar-98	May-02	Jun-05	Oct-05	May-06	Aug-06	Sep-06	14,560	15,034	-	-	-	-	29,594
00	DDG	97	Mar-98	Dec-01	Jan-05	May-05	Jan-06	Apr-06	Jun-06	18,594	6,559	-	-	-	-	25,153
00	DDG	98	Mar-98	Jul-02	Aug-05	Dec-05	Aug-06	Nov-06	May-07	10,760	18,369	600	-	-	-	29,729
	DDG	98	Hurricane Katrina Supplemental Funding								5,700	-	-	-	-	5,700
01	DDG	99	Mar-98	Dec-02	Jan-06	May-06	Feb-07	May-07	Jun-07	775	31,374	2,434	-	-	-	34,583
01	DDG	100	Mar-98	Jan-03	Dec-06	May-07	Jan-08	Apr-08	Apr-08	1,157	6,942	29,520	-	-	-	37,619
01	DDG	101	Mar-98	Jul-03	Sep-06	Jan-07	Aug-07	Nov-07	Dec-07	-	13,036	22,864	-	-	-	35,900
02	DDG	102	Jul-02	Feb-04	May-07	Oct-07	Jun-08	Sep-08	Sep-08	-	630	20,205	14,083	-	-	34,918
02	DDG	103	Sep-02	May-04	Aug-08	TBD	Aug-09	Nov-08	TBD	-	-	-	16,102	13,253	-	29,355
02	DDG	104	Sep-02	Oct-04	Jan-08	May-08	Jan-09	May-09	Apr-09	-	-	5,193	33,072	-	-	38,265
03	DDG	105	Sep-02	Apr-05	Dec-08	TBD	Aug-09	Nov-09	Dec-09	-	-	-	9,433	18,949	-	28,382
03	DDG	106	Sep-02	May-05	Aug-08	Dec-08	Jun-09	Sep-09	Nov-09	-	-	-	21,274	14,520	-	35,794
04	DDG	107	Sep-02	Feb-06	Jul-09	Oct-09	Jun-10	Sep-10	Sep-10	-	-	-	-	3,919	25,251	29,170
04	DDG	108	Sep-02	Dec-05	Apr-09	Aug-09	Jan-10	Apr-10	Jul-10	-	-	-	3,800	16,545	8,906	29,251
04	DDG	109	Sep-02	Jul-06	Nov-09	Mar-10	Aug-10	Nov-10	Feb-11	-	-	-	-	2,142	27,062	29,204
05	DDG	110	Sep-02	May-07	Jul-10	Oct-10	Jun-11	Sep-11	Sep-11	-	-	-	-	-	35,417	35,417
05	DDG	111	Sep-02	Apr-07	Jun-10	Oct-10	Mar-11	Jun-11	Sep-11	-	-	-	-	-	34,954	34,954
05	DDG	112	Sep-02	Jan-08	Feb-11	Jun-11	Jan-12	Apr-12	May-12	-	-	-	-	-	33,542	33,542
	DDG									255,377	105,047	80,816	97,764	69,328	165,132	773,464
07	DDG 1000	1000	Feb-07	Jul-08	Dec-12	TBD	TBD	TBD	Nov-13	-	-	-	-	-	100,465	100,465
07	DDG 1000	1001	Feb-07	Jul-08	Dec-12	TBD	TBD	TBD	Nov-13	-	-	-	-	-	70,667	70,667
09	DDG 1000	1002	Jan-09	Jul-10	Dec-14	TBD	TBD	TBD	Nov-15	-	-	-	-	-	63,331	63,331
10	DDG 1000	1003	Jan-10	Jul-11	Jul-15	TBD	TBD	TBD	Jun-16	-	-	-	-	-	65,645	65,645
11	DDG 1000	1004	Jan-11	Jul-12	Jan-16	TBD	TBD	TBD	Dec-17	-	-	-	-	-	-	-
12	DDG 1000	1005	Jan-12	Jul-13	Jul-17	TBD	TBD	TBD	Jun-18	-	-	-	-	-	-	-
13	DDG 1000	1006	Jan-13	Jan-15	Jan-18	TBD	TBD	TBD	Dec-18	-	-	-	-	-	-	-
	DDG 1000									-	-	-	-	-	300,108	300,108
01	LCACSLEP	2	May-01	Nov-01	Feb-04	Mar-04	Apr-04	Sep-05	Oct-05	88	-	-	-	-	-	88
02	LCACSLEP	4	Dec-02	Jan-03	Dec-04	Feb-05	Mar-05	Apr-05	Mar-06	262	-	-	-	-	-	262
02	LCACSLEP	7	Dec-02	Mar-03	Mar-05	Apr-05	May-05	Jun-05	Mar-06	353	-	-	-	-	-	353
03	LCACSLEP	9	Dec-02	Jul-03	Aug-05	Aug-05	Mar-06	May-06	Sep-07	353	-	-	-	-	-	353
03	LCACSLEP	8	Dec-02	May-03	May-05	Jun-05	Jan-06	Mar-06	Sep-07	353	-	-	-	-	-	353
03	LCACSLEP	10	Jun-03	Sep-03	Jan-06	Feb-06	Mar-06	May-06	Sep-07	353	-	-	-	-	-	353
03	LCACSLEP	21	Dec-02	Nov-03	Sep-06	Oct-06	Nov-06	Jan-07	Sep-07	354	-	-	-	-	-	354
04	LCACSLEP	26	Mar-04	Oct-04	Mar-07	Apr-07	May-07	Jun-07	Oct-08	354	-	-	-	-	-	354
04	LCACSLEP	28	Mar-04	Jan-05	May-07	Jun-07	Jul-07	Aug-07	Oct-08	-	307	-	-	-	-	307
04	LCACSLEP	39	Mar-04	Mar-05	Aug-07	Sep-07	Oct-07	Nov-07	Oct-08	-	307	-	-	-	-	307

<u>FY</u>	<u>Ship Class</u>	<u>Hull #</u>	<u>Contract Award</u>	<u>Start of Constr.</u>	<u>DEL DATE</u>	<u>CFO</u>	<u>PSA START</u>	<u>PSA FINISH</u>	<u>OWLD</u>	<u>PY PD</u>	<u>FY 06 PD</u>	<u>FY 07 PD</u>	<u>FY 08 PD</u>	<u>FY 09 PD</u>	<u>CTC PD</u>	<u>TOTAL PD</u>
04	LCACSLEP	40	Mar-04	Jun-05	Oct-07	Nov-07	Dec-07	Jan-07	Oct-08	-	307	-	-	-	-	307
05	LCACSLEP	37	Jan-05	May-05	Feb-07	Oct-06	May-07	Jun-07	Aug-08	-	307	-	-	-	-	307
05	LCACSLEP	42	Jan-05	May-05	Aug-07	Sep-07	Oct-07	Nov-07	Aug-08	-	307	-	-	-	-	307
05	LCACSLEP	43	Jan-05	May-06	Aug-07	Sep-07	Oct-07	Nov-07	Aug-08	-	308	-	-	-	-	308
05	LCACSLEP	45	Jan-05	Feb-06	Aug-07	Sep-07	Oct-07	Nov-07	Aug-08	-	-	323	-	-	-	323
05	LCACSLEP	47	Jan-05	Jul-06	Aug-07	Sep-07	Oct-07	Nov-07	Aug-08	-	-	322	-	-	-	322
06	LCACSLEP	34	Aug-06	Jul-07	Feb-08	Mar-08	Apr-08	May-08	Feb-09	-	-	322	-	-	-	322
06	LCACSLEP	54	Aug-06	Mar-07	Feb-08	Mar-08	Apr-08	May-08	Feb-09	-	-	322	-	-	-	322
06	LCACSLEP	68	Aug-06	May-07	Feb-08	Mar-08	Apr-08	May-08	Feb-09	-	-	322	-	-	-	322
06	LCACSLEP	29	Aug-06	Mar-07	Feb-08	Mar-08	Apr-08	May-08	Feb-09	-	-	322	-	-	-	322
06	LCACSLEP	32	Aug-06	May-07	Feb-08	Mar-08	Apr-08	May-08	Feb-09	-	-	-	92	-	-	92
07	LCACSLEP	36	Dec-06	Sep-07	Jul-08	Aug-08	Sep-08	Oct-08	Nov-09	-	-	-	93	-	-	93
07	LCACSLEP	50	Dec-06	Nov-07	Sep-08	Oct-08	Nov-08	Dec-08	Nov-09	-	-	-	92	-	-	92
07	LCACSLEP	69	Dec-06	Jan-08	Nov-08	Dec-08	Jan-09	Feb-09	Nov-09	-	-	-	93	-	-	93
07	LCACSLEP	31	Dec-06	Sep-07	Jul-08	Aug-08	Sep-08	Oct-08	Nov-09	-	-	-	93	-	-	93
07	LCACSLEP	48	Dec-06	Nov-07	Sep-08	Oct-08	Nov-08	Dec-08	Nov-09	-	-	-	93	-	-	93
07	LCACSLEP	36	Dec-06	Sep-07	Jul-08	Aug-08	Sep-08	Oct-08	Nov-09	-	-	-	-	79	-	79
07	LCACSLEP	33	Dec-06	Jan-08	Nov-08	Dec-08	Jan-09	Feb-09	Nov-09	-	-	-	-	79	-	79
08	LCACSLEP	24	Dec-07	Sep-08	Jul-09	Aug-09	Sep-09	Oct-09	Nov-10	-	-	-	-	79	-	79
08	LCACSLEP	53	Dec-07	Nov-08	Sep-09	Oct-09	Nov-09	Dec-09	Nov-10	-	-	-	-	79	-	79
08	LCACSLEP	30	Dec-07	Sep-08	Jul-09	Aug-09	Sep-09	Oct-09	Nov-10	-	-	-	-	79	-	79
08	LCACSLEP	41	Dec-07	Nov-08	Sep-09	Oct-09	Nov-09	Dec-09	Nov-10	-	-	-	-	79	-	79
08	LCACSLEP	46	Dec-07	Jan-08	Nov-09	Dec-09	Jan-10	Feb-10	Nov-10	-	-	-	-	-	18	18
09	LCACSLEP	56	Dec-08	Sep-09	Jul-10	Aug-10	Sep-10	Oct-10	Nov-11	-	-	-	-	-	19	19
09	LCACSLEP	61	Dec-08	Nov-09	Sep-10	Oct-10	Nov-10	Dec-10	Nov-11	-	-	-	-	-	19	19
09	LCACSLEP	73	Dec-08	Jan-10	Nov-10	Dec-10	Jan-11	Feb-11	Nov-11	-	-	-	-	-	19	19
09	LCACSLEP	59	Dec-08	Sep-09	Jul-10	Aug-10	Sep-10	Oct-10	Nov-11	-	-	-	-	-	18	18
09	LCACSLEP	67	Dec-08	Nov-09	Sep-10	Oct-10	Nov-10	Dec-10	Nov-11	-	-	-	-	-	19	19
09	LCACSLEP	70	Dec-08	Jan-10	Nov-10	Dec-10	Jan-11	Feb-11	Nov-11	-	-	-	-	-	-	-
10	LCACSLEP	52	Dec-09	Sep-10	Jul-11	Aug-11	Sep-11	Oct-11	Jan-13	-	-	-	-	-	-	-
10	LCACSLEP	58	Dec-09	Nov-10	Sep-11	Oct-11	Nov-11	Dec-11	Jan-13	-	-	-	-	-	-	-
10	LCACSLEP	27	Dec-09	Sep-10	Jul-11	Aug-11	Sep-11	Oct-11	Jan-13	-	-	-	-	-	-	-
10	LCACSLEP	38	Dec-09	Nov-10	Sep-11	Oct-11	Nov-11	Dec-11	Jan-13	-	-	-	-	-	-	-
10	LCACSLEP	49	Dec-09	Mar-11	Jan-12	Feb-12	Mar-12	Apr-12	Jan-13	-	-	-	-	-	-	-
10	LCACSLEP	71	Dec-09	Jan-11	Nov-11	Dec-11	Jan-12	Feb-12	Jan-13	-	-	-	-	-	-	-
11	LCACSLEP	57	Dec-10	Sep-11	Jul-12	Aug-12	Sep-12	Oct-12	Nov-13	-	-	-	-	-	-	-
11	LCACSLEP	62	Dec-10	Nov-11	Sep-12	Oct-12	Nov-12	Dec-12	Nov-13	-	-	-	-	-	-	-
11	LCACSLEP	55	Dec-10	Sep-11	Jul-12	Aug-12	Sep-12	Oct-12	Nov-13	-	-	-	-	-	-	-
11	LCACSLEP	51	Dec-10	Nov-11	Sep-12	Oct-12	Nov-12	Dec-12	Nov-13	-	-	-	-	-	-	-
11	LCACSLEP	60	Dec-10	Jan-12	Nov-12	Dec-12	Jan-13	Feb-13	Nov-13	-	-	-	-	-	-	-
11	LCACSLEP	63	Dec-10	Jan-12	Nov-12	Dec-12	Jan-13	Feb-13	Nov-13	-	-	-	-	-	-	-
12	LCACSLEP	77	Dec-11	Sep-12	Jul-13	Aug-13	Sep-13	Oct-13	Mar-15	-	-	-	-	-	-	-
12	LCACSLEP	64	Dec-11	Sep-12	Jul-13	Aug-13	Sep-13	Oct-13	Mar-15	-	-	-	-	-	-	-
12	LCACSLEP	65	Dec-11	Nov-12	Sep-13	Oct-13	Nov-13	Dec-13	Mar-15	-	-	-	-	-	-	-
12	LCACSLEP	72	Dec-11	Jan-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-15	-	-	-	-	-	-	-
12	LCACSLEP	74	Dec-11	Mar-13	Jan-14	Feb-14	Mar-14	Apr-14	Mar-15	-	-	-	-	-	-	-
12	LCACSLEP	76	Dec-11	May-13	Mar-14	Apr-14	May-14	Jun-14	Mar-15	-	-	-	-	-	-	-
13	LCACSLEP	75	Dec-12	Sep-13	Jul-14	Aug-14	Sep-14	Oct-14	Jan-16	-	-	-	-	-	-	-
13	LCACSLEP	79	Dec-12	Nov-13	Sep-14	Oct-14	Nov-14	Dec-14	Jan-16	-	-	-	-	-	-	-
13	LCACSLEP	78	Dec-12	Sep-13	Jul-14	Aug-14	Sep-14	Oct-14	Jan-16	-	-	-	-	-	-	-
13	LCACSLEP	83	Dec-12	Nov-13	Sep-14	Oct-14	Nov-14	Dec-14	Jan-16	-	-	-	-	-	-	-
13	LCACSLEP	84	Dec-12	Jan-14	Nov-14	Dec-14	Jan-15	Jan-15	Jan-16	-	-	-	-	-	-	-
13	LCACSLEP	85	Dec-12	Mar-14	Jan-15	Feb-15	Mar-15	Apr-15	Jan-16	-	-	-	-	-	-	-
	LCACSLEP									2,470	1,843	1,933	556	474	112	7,388

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06	LCS 3	0602	Jun-06	Apr-07	Apr-09	Jul-09	Jan-10	Mar-10	Jun-10					9,916	3,289	13,205
06	LCS 4	0603	Dec-06	Jun-07	Jun-09	Aug-09	Feb-10	Apr-10	Jul-10					9,916	3,132	13,048
07	LCS 5	0701	Jun-07	Nov-07	Nov-09	Feb-10	Aug-10	Oct-10	Jan-11	-	-	-	-		16,310	16,310
07	LCS 6	0702	Jun-07	Nov-07	Nov-09	Feb-10	Aug-10	Oct-10	Jan-11	-	-	-	-		16,310	16,310
08	LCS 7	0801	Oct-07	Mar-08	Mar-10	Jun-10	Jun-11	Aug-11	May-11	-	-	-	-		18,642	18,642
08	LCS 8	0802	Oct-07	Mar-08	Mar-10	Jun-10	Jun-11	Aug-11	May-11	-	-	-	-		18,641	18,641
08	LCS 9	0803	Oct-07	Jun-08	Jun-10	Sep-10	Mar-11	May-11	Aug-11	-	-	-	-		12,553	12,553
09	LCS 10	0901	Oct-08	Mar-09	Mar-11	Jun-11	Dec-11	Feb-12	May-12	-	-	-	-		11,373	11,373
09	LCS 11	0902	Oct-08	Mar-09	Mar-11	Jul-11	Jan-12	Mar-12	Jun-12	-	-	-	-		11,373	11,373
09	LCS 12	0903	Oct-08	Jun-09	Jun-11	Sep-11	Mar-12	May-12	Aug-12	-	-	-	-		11,373	11,373
09	LCS 13	0904	Oct-08	Jun-09	Jun-11	Sep-11	Mar-12	May-12	Aug-12	-	-	-	-		11,373	11,373
09	LCS 14	0905	Oct-08	Sep-09	Sep-11	Dec-11	Jun-12	Aug-12	Nov-12	-	-	-	-		11,373	11,373
09	LCS 15	0906	Oct-08	Sep-09	Sep-11	Dec-11	Jun-12	Aug-12	Nov-12	-	-	-	-		11,373	11,373
10	LCS 16	1001	Oct-09	Mar-10	Mar-12	Jun-12	Dec-12	Feb-13	May-13	-	-	-	-		11,830	11,830
10	LCS 17	1002	Oct-09	Mar-10	Mar-12	Jun-12	Dec-12	Feb-13	May-13	-	-	-	-		11,829	11,829
10	LCS 18	1003	Oct-09	Jun-10	Jun-12	Sep-12	Mar-13	May-13	Aug-13	-	-	-	-		11,829	11,829
10	LCS 19	1004	Oct-09	Jun-10	Jun-12	Sep-12	Mar-13	May-13	Aug-13	-	-	-	-		11,829	11,829
10	LCS 20	1005	Oct-09	Sep-10	Sep-12	Dec-12	Jun-13	Aug-13	Nov-13	-	-	-	-		11,829	11,829
10	LCS 21	1006	Oct-09	Sep-10	Sep-12	Dec-12	Jun-13	Aug-13	Nov-13	-	-	-	-		11,829	11,829
11	LCS 22	1101	Oct-10	Mar-11	Mar-13	Jun-13	Dec-13	Feb-14	May-14	-	-	-	-		11,968	11,968
11	LCS 23	1102	Oct-10	Mar-11	Mar-13	Jul-13	Jan-14	Mar-14	Jun-14	-	-	-	-		11,967	11,967
11	LCS 24	1103	Oct-10	Jun-11	Jun-13	Sep-13	Mar-14	May-14	Aug-14	-	-	-	-		11,965	11,965
11	LCS 25	1104	Oct-10	Jun-11	Jun-13	Sep-13	Mar-14	May-14	Aug-14	-	-	-	-		6,470	6,470
11	LCS 26	1105	Oct-10	Sep-11	Sep-13	Dec-13	Jun-14	Jun-14	Nov-14	-	-	-	-		16,365	16,365
11	LCS 27	1106	Oct-10	Sep-11	Sep-13	Dec-13	Jun-14	Aug-14	Aug-14	-	-	-	-		16,366	16,366
12	LCS 28	1201	Oct-11	Mar-12	Mar-14	Jun-14	Dec-14	Feb-15	Feb-15	-	-	-	-		-	-
12	LCS 29	1202	Oct-11	Mar-12	Mar-14	Jul-14	Jan-15	Mar-15	Feb-15	-	-	-	-		-	-
12	LCS 30	1203	Oct-11	Jun-12	Jun-14	Sep-14	Mar-15	May-15	May-15	-	-	-	-		-	-
12	LCS 31	1204	Oct-11	Jun-12	Jun-14	Sep-14	Mar-15	May-15	May-15	-	-	-	-		-	-
12	LCS 32	1205	Oct-11	Sep-12	Sep-14	Dec-14	Jun-15	Aug-15	Aug-15	-	-	-	-		-	-
12	LCS 33	1206	Oct-11	Sep-12	Sep-14	Dec-14	Jun-15	Aug-15	Aug-15	-	-	-	-		-	-
13	LCS 34	1301	Oct-12	Mar-13	Mar-15	Jun-15	Dec-15	Feb-16	Feb-16	-	-	-	-		-	-
13	LCS 35	1302	Oct-12	Jun-13	Jun-15	Oct-15	Apr-16	Jun-16	May-16	-	-	-	-		-	-
13	LCS 36	1303	Oct-12	Jun-13	Jun-15	Sep-15	Mar-16	May-16	May-16	-	-	-	-		-	-
13	LCS 37	1304	Oct-12	Sep-13	Sep-15	Dec-15	Jun-16	Aug-16	Aug-16	-	-	-	-		-	-
13	LCS 38	1305	Oct-12	Sep-13	Sep-15	Dec-15	Jun-16	Aug-16	Aug-16	-	-	-	-		-	-
	LCS									-	-	-	-	19,832	303,191	323,023
										-	-	-	-		-	-
07	LHA ( R )	TBD	Feb-07	Nov 07	Dec 11	May 12	Sep 12	Jan 13	Apr 13	-	-	-	-	-	24,576	24,576
	LHA ( R )									-	-	-	-	-	24,576	24,576
										-	-	-	-		-	-
02	LHD	8	Apr-02	May-03	Mar-08	Oct-08	May-09	Aug-09	Sep-09	-	-	1,206	12,640	5,247	-	19,093
	LHD									-	-	1,206	12,640	5,247	-	19,093
96	LPD	17	Dec-96	Jun-00	Jul-05	Mar-06	Mar-07	May-07	Feb-08	62,192	72,049	21,461	5,150	-	-	160,852
99	LPD	18	Dec-98	Feb-02	Dec-06	May-07	Jan-08	Mar-08	Sep-08	1,058	1,000	27,684	11,771	-	-	41,513
00	LPD	19	Feb-00	Jul-01	Apr-07	Sep-07	May-08	Aug-08	Aug-08	3,763	3,151	-	34,032	-	-	40,946
00	LPD	20	May-00	Oct-02	Jul-08	Dec-08	Jul-09	Sep-09	Nov-09	-	-	-	1,931	21,831	-	23,762
03	LPD	21	Nov-03	Mar-04	Apr-09	Sep-09	Apr-10	Jun-10	Aug-10	-	-	-	-	8,971	10,488	19,459
04	LPD	22	Jun-06	Jul-06	Jun-10	Nov-10	Jun-11	Sep-11	Oct-11	-	-	-	-	-	26,237	26,237
05	LPD	23	Jun-06	Mar-07	Oct-10	Mar-11	Oct-11	Jan-12	Feb-12	-	-	-	-	-	25,234	25,234
06	LPD	24	Nov-06	Aug-07	Mar-11	Aug-11	Mar-12	Jun-12	Jul-12	-	-	-	-	-	23,525	23,525
07	LPD	25	Nov-07	Feb-08	Oct-11	Feb-12	Sep-12	Dec-12	Jan-13	-	-	-	-	-	27,462	27,462
	LPD									67,013	76,200	49,145	52,884	30,802	112,946	388,990
	LPD Hurricane Katrina Supplemental Funding										25,600	-	-	-	-	25,600
	LPD Total									67,013	101,800	49,145	52,884	30,802	112,946	414,590

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11	SEABASE CO	01	Dec-10	Apr-12	Mar-15	Apr-15	May-15	Jul-15	Mar-16	-	-	-	-	-	-	-
13	SEABASE CO	02	Mar-13	Jun-14	Sep-16	Oct-16	Nov-16	Jan-17	Sep-17	-	-	-	-	-	-	-
13	SEABASE CO	03	Mar-13	Aug-14	Jun-16	Jul-16	Aug-16	Sep-16	Sep-17	-	-	-	-	-	-	-
13	SEABASE CO	04	Mar-13	Oct-14	Aug-16	Sep-16	Oct-16	Nov-16	Sep-17	-	-	-	-	-	-	-
	SEABASE CON									0	0	0	0	0	-	0
98	VIRGINIA	774	Sep-98	Aug-97	Oct-04	Oct-04	Jan-06	Jan-07	Jul-07	50,573	24,290	-	-	-	-	74,863
99	VIRGINIA	775	Sep-98	Sep-98	Jun-06	Jun-06	Jan-07	Oct-07	Oct-07	4,965	10,472	58,848	-	-	-	74,285
01	VIRGINIA	776	Sep-98	Oct-99	Dec-06	Dec-06	Jan-08	Oct-08	Oct-08	-	-	7,330	46,138	-	-	53,468
02	VIRGINIA	777	Sep-98	Mar-01	Jun-08	Jun-08	Jan-09	Oct-09	Oct-09	-	-	270	7,920	42,399	-	50,589
03	VIRGINIA	778	Aug-03	Apr-02	Apr-09	Apr-09	Oct-09	Apr-10	Oct-10	-	-	-	244	18,147	32,789	51,180
04	VIRGINIA	779	Jan-04	Mar-03	Apr-10	Apr-10	Oct-10	Apr-11	Oct-11	-	-	-	554	99	52,098	52,751
05	VIRGINIA	780	Jan-04	Oct-04	Apr-11	Apr-11	Oct-11	Apr-12	Oct-12	-	-	-	-	217	51,728	51,945
06	VIRGINIA	781	Jan-04	Apr-05	Apr-12	Apr-12	Oct-12	Apr-13	Mar-13	-	-	-	-	-	54,673	54,673
07	VIRGINIA	782	Jan-04	Aug-06	Apr-13	Apr-13	Oct-13	Apr-14	Mar-14	-	-	-	-	-	58,310	58,310
08	VIRGINIA	783	Jan-04	Aug-07	Apr-14	Apr-14	Oct-14	Apr-15	Mar-15	-	-	-	-	-	56,279	56,279
09	VIRGINIA	784	Oct-08	Aug-08	Apr-15	Apr-15	Oct-15	Apr-16	Mar-16	-	-	-	-	-	57,400	57,400
10	VIRGINIA	785	Oct-08	TBD	TBD	TBD	TBD	TBD	TBD	-	-	-	-	-	63,768	63,768
11	VIRGINIA	1101	Oct-08	TBD	TBD	TBD	TBD	TBD	TBD	-	-	-	-	-	-	-
12	VIRGINIA	1201	Oct-08	TBD	TBD	TBD	TBD	TBD	TBD	-	-	-	-	-	-	-
12	VIRGINIA	1202	Oct-08	TBD	TBD	TBD	TBD	TBD	TBD	-	-	-	-	-	-	-
13	VIRGINIA	1301	Oct-08	TBD	TBD	TBD	TBD	TBD	TBD	-	-	-	-	-	-	-
13	VIRGINIA	1302	Oct-08	TBD	TBD	TBD	TBD	TBD	TBD	-	-	-	-	-	-	-
	VIRGINIA									55,538	34,762	66,448	54,856	60,862	427,045	699,511
96	SSN	23	Jun-96	Dec-95	Dec-04	Dec-04	N/A	N/A	Jun-06	25,400	6,194	-	-	-	-	31,594
03	SSGN	726	Nov-03	Nov-03	Dec-05	Dec-05	N/A	N/A	Dec-07	-	5,113	1,500	-	-	-	6,613
03	SSGN	728	Mar-04	Apr-04	Apr-06	Apr-06	N/A	N/A	Jan-08	-	4,419	4,735	-	-	-	9,154
04	SSGN	727	Jan-05	Jan-05	Dec-06	Dec-06	N/A	N/A	Nov-07	-	-	5,667	-	-	-	5,667
05	SSGN	729	Oct-05	Oct-05	Sep-07	Sep-07	N/A	N/A	Aug-08	0	0	-	10,098	-	-	10,098
	SSGN									0	9,532	11,902	10,098	-	-	31,532
05	SSBN	730	Mar-03	Nov-04	Feb-07	Feb-07	N/A	N/A	Jan-08	-	-	-	-	-	-	-
06	SSBN	731	May-04	Jan-06	Apr-08	Apr-08	N/A	N/A	Mar-09	-	-	-	-	-	-	-
07	SSBN	732	Feb-05	Nov-06	Feb-09	Feb-09	N/A	N/A	Jan-10	-	-	-	-	-	-	-
08	SSBN	733	Feb-06	Oct-07	Jan-10	Jan-10	N/A	N/A	Dec-10	-	-	-	-	-	-	-
09	SSBN	734	Feb-07	Oct-08	Apr-11	Apr-11	N/A	N/A	Mar-12	-	-	-	-	-	-	-
10	SSBN	735	Feb-08	Oct-09	Apr-12	Apr-12	N/A	N/A	Mar-13	-	-	-	-	-	-	-
11	SSBN	736	Feb-09	Oct-10	Apr-13	Apr-13	N/A	N/A	Mar-14	-	-	-	-	-	-	-
	SSBN									0	0	0	0	0	-	0
01	SUB ERO	706	Feb-00	Jul-01	May-03	May-03	N/A	N/A	Apr-04	-	-	-	-	-	-	-
02	SUB ERO	713	Feb-00	Oct-01	Aug-04	Aug-04	N/A	N/A	Jul-05	-	-	-	-	-	-	-
02	SUB ERO	715	Oct-00	Jun-02	Nov-04	Nov-04	N/A	N/A	Jan-06	-	-	-	-	-	-	-
03	SUB ERO	698	Oct-02	Mar-04	Mar-07	Mar-07	N/A	N/A	Feb-08	-	-	-	-	-	-	-
03	SUB ERO	714	Feb-01	Oct-02	Aug-04	Aug-04	N/A	N/A	Jul-05	-	-	-	-	-	-	-
04	SUB ERO	699	Oct-03	Sep-04	Jan-07	Jan-07	N/A	N/A	Dec-07	-	-	-	-	-	-	-
04	SUB ERO	717	Oct-03	Mar-06	May-08	May-08	N/A	N/A	Apr-09	-	-	-	-	-	-	-
	SUB ERO									0	0	0	0	0	-	0
09	JHSV	0901	Mar-09	May-09	May-11	Jul-11	TBD	TBD	Jun-12	-	-	-	-	-	-	-
10	JHSV	1001	Mar-10	May-10	May-12	Jul-12	TBD	TBD	Jun-13	-	-	-	-	-	-	-
11	JHSV	1101	Mar-11	May-11	May-13	Jul-13	TBD	TBD	Jun-14	-	-	-	-	-	-	-
	JHSV									0	0	0	0	0	-	0

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11	AGOR	1101	Mar-11	Jun-11	Feb-14	Apr-14	TBD	TBD	Mar-15	-	-	-	-	-	-	-
12	AGOR	1201	Mar-12	Jun-12	Aug-14	Oct-14	TBD	TBD	Sep-15	-	-	-	-	-	-	-
	AGOR									0	0	0	0	0	-	0
02	YON	321	Jul-03	May-04	Jan-05	Apr-05	N/A	N/A	Mar-06	49	-	-	-	-	-	49
3	YON	322	Jul-03	Nov-04	Sep-05	Nov-05	N/A	N/A	Oct-06	49	-	-	-	-	-	49
03	YON	323	Jul-03	Nov-04	Sep-05	Nov-05	N/A	N/A	Oct-06	81	-	-	-	-	-	81
03	YON	324	Dec-03	Jan-05	Sep-05	Nov-05	N/A	N/A	Oct-06	81	-	-	-	-	-	81
04	YON	0325	Jun-04	May-05	Nov-05	Jan-06	N/A	N/A	Jan-08	-	535	-	-	-	-	535
05	YON	0326	May-05	Oct-05	Dec-06	Feb-07	N/A	N/A	Sep-08	-	-	43	-	-	-	43
06	YON	0327	Jul-06	Dec-06	Aug-07	Oct-07	N/A	N/A	Jul-08	-	-	-	-	-	-	-
07	YON	0328	Jan-07	Mar-07	Nov-07	Jan-08	N/A	N/A	Dec-08	-	-	-	-	8	-	8
08	YON	0801	Jan-08	Mar-08	Nov-08	Jan-09	N/A	N/A	Dec-09	-	-	-	-	-	-	-
08	YON	0802	Jan-08	Mar-08	Nov-08	Jan-09	N/A	N/A	Dec-09	-	-	-	-	-	-	-
09	YON	0901	Jan-09	Mar-09	Nov-09	Jan-10	N/A	N/A	Dec-10	-	-	-	-	-	2	2
10	YON	1001	Jan-10	Mar-10	Nov-10	Jan-11	N/A	N/A	Dec-12	-	-	-	-	-	-	-
11	YON	1101	Jan-11	Mar-11	Nov-11	Jan-12	N/A	N/A	Dec-12	-	-	-	-	-	-	-
12	YON	1201	Jan-12	Mar-12	Dec-12	Feb-13	N/A	N/A	Jan-14	-	-	-	-	-	-	-
13	YON	1301	Jan-13	Mar-13	Nov-13	Jan-14	N/A	N/A	Dec-14	-	-	-	-	-	-	-
	YON									260	535	43	-	8	2	848
06	YP	0703	Sep-06	Oct-06	Feb-08	Apr-08	N/A	N/A	Mar-09	-	-	-	-	-	-	-
06	YP	0704	Sep-06	Mar-07	Aug-08	Oct-08	N/A	N/A	Sep-09	-	-	-	-	-	-	-
06	YP	0705	Sep-06	Dec-06	Dec-08	Feb-09	N/A	N/A	Jan-10	-	-	-	-	-	-	-
07	YP	0701	Jun-07	Jun-07	Feb-09	Apr-09	N/A	N/A	Mar-10	-	-	-	-	-	-	-
08	YP	0801	Jun-08	Jun-08	Jun-09	Aug-09	N/A	N/A	Jul-10	-	-	-	-	8	-	8
08	YP	0802	Jun-08	Aug-08	Aug-09	Oct-09	N/A	N/A	Sep-10	-	-	-	-	8	-	8
08	YP	0803	Jan-08	Jul-08	Jun-09	Aug-09	N/A	N/A	Aug-10	-	-	-	-	8	-	8
09	YP	0901	Jan-09	Mar-09	Mar-10	May-10	N/A	N/A	Apr-11	-	-	-	-	8	-	8
09	YP	0902	Jan-09	May-09	May-10	Jul-10	N/A	N/A	Jun-11	-	-	-	-	-	2	2
10	YP	1001	Jan-10	Mar-10	Mar-11	May-11	N/A	N/A	Apr-12	-	-	-	-	-	2	2
10	YP	1002	Jan-10	May-10	May-11	Jul-11	N/A	N/A	Jun-12	-	-	-	-	-	-	-
11	YP	1101	Jan-11	Mar-11	Mar-12	May-12	N/A	N/A	Apr-13	-	-	-	-	-	-	-
11	YP	1102	Jan-11	May-11	May-12	Jun-12	N/A	N/A	Jun-13	-	-	-	-	-	-	-
12	YP	1201	Jan-12	Mar-12	Mar-13	May-13	N/A	N/A	Apr-14	-	-	-	-	-	-	-
12	YP	1202	Jan-12	Apr-12	Apr-13	Jun-13	N/A	N/A	May-14	-	-	-	-	-	-	-
13	YP	1301	Jan-13	Mar-13	Feb-14	Apr-14	N/A	N/A	Mar-15	-	-	-	-	-	-	-
	YP									-	-	-	-	32	4	36
06	YTB	0039	May-06	Jun-06	Jun-07	Aug-07	N/A	N/A	Jul-08	-	-	-	-	-	-	-
06	YTB	0040	May-06	Aug-06	Aug-07	Oct-07	N/A	N/A	Sep-08	-	-	-	-	-	-	-
07	YTB	701	Jan-07	Mar-07	Mar-08	May-08	N/A	N/A	Apr-09	-	-	-	-	8	-	8
07	YTB	702	Jan-07	May-07	May-08	Jul-08	N/A	N/A	Jun-09	-	-	-	-	8	-	8
07	YTB	703	Jan-07	Jul-07	Jun-08	Aug-08	N/A	N/A	Jul-09	-	-	-	-	8	-	8
	YTB	704	Jan-08	Jul-08	Jun-09	Aug-09	N/A	N/A	Jul-10	-	-	-	-	-	-	-
	YTB	801	Jan-08	Jul-08	Jun-09	Aug-09	N/A	N/A	Jul-10	-	-	-	-	-	-	-
	YTB	901	Jun-09	Nov-09	Jan-11	May-10	N/A	N/A	Apr-11	-	-	-	-	-	-	-
	YTB									-	-	-	-	24	-	24
06	YD	0601	Jul-06	Sep-06	Aug-07	Oct-07	N/A	N/A	Sep-08	-	-	-	-	-	-	-
07	YD	0701	Jul-07	Sep-07	Aug-08	Oct-08	N/A	N/A	Sep-09	-	-	-	-	10	-	10
08	YD	0801	Jul-08	Aug-08	Aug-09	Oct-09	N/A	N/A	Sep-10	-	-	-	-	-	2	2
09	YD	0901	Jul-09	Aug-09	Aug-10	Oct-10	N/A	N/A	Sep-11	-	-	-	-	-	-	-
	YD									-	-	-	-	10	2	12
	TOTAL SC									260	535	43	-	74	8	920

	PY	FY 06	FY 07	FY 08	FY 09	CTC	TOTAL
	PD	PD	PD	PD	PD	PD	PD
OUTFITTING	407,297	136,319	154,561	180,354	166,017	1,361,177	2,405,725
POST DELIVERY	437,650	259,713	211,493	235,101	251,027	1,517,102	2,912,086
FIRST DESTINATION TRANS.	7,294	4,323	3,024	4,356	4,802	22,917	46,716
TOTAL	852,241	400,355	369,078	419,811	421,846	2,901,196	5,364,527
LESS HURRICANE KATRINA		28,300					
NET P-1	852,241	372,055	369,078	419,811	421,846	2,901,196	5,336,227

CLASSIFICATION: UNCLASSIFIED

**BUDGET ITEM JUSTIFICATION SHEET (P-40)  
FY2008/FY2009 PRESIDENTS BUDGET ESTIMATE SUBMISSION**

DATE:  
February 2007

**APPROPRIATION/BUDGET ACTIVITY/BUDGET LINE ITEM  
SHIPBUILDING AND CONVERSION, NAVY/BA -5 Auxiliaries and Craft/BLI 5113**

**P-1 ITEM NOMENCLATURE  
SERVICE CRAFT**

	PRIOR YEAR	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TO COMPLETE	TOTAL PROGRAM
QUANTITY	17	8	5	4	3	2	2	2	2	0	45
End Cost	36.7	44.8	45.1	32.9	31.4	16.9	17.3	17.7	18.0	0.0	260.8
Full Funding TOA	36.7	44.8	45.1	32.9	31.4	16.9	17.3	17.7	18.0	0.0	260.8
Total Obligational Authority	36.7	44.8	45.1	32.9	31.4	16.9	17.3	17.7	18.0	0.0	260.8
Plus Outfitting and Post Delivery	0.4	0.6	0.1	2.2	0.8	1.8	1.5	1.6	1.8	0.0	10.8
Total	37.1	45.4	45.2	35.1	32.2	18.7	18.8	19.3	19.8	0.0	271.6
Unit Cost (Ave. End Cost)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**MISSION:**

**NEW CONSTRUCTION SERVICE CRAFT TO ACQUIRE OIL BARGES (YONs), COVERED LIGHTERS (YFNs), OPEN LIGHTERS (YCs), LARGE HARBOR TUGS (YTBs), FLOATING CRANES (YTDs) AND YARD PATROL CRAFT (YPs). SEE SERVICE CRAFT P-5 FOR DETAILED BREAKOUT FOR CRAFT PROCUREMENT.**

**Characteristics:**

**Hull** Various - Multiple Craft  
**Length overall**  
**Beam**  
**Displacement**  
**Draft**

**Production Status:**

Contract Plans  
 Award Planned (Month)  
 Months to Complete  
 a) Award to Delivery  
 b) Construction Start to Delivery  
 Commissioning Date  
 Completion of  
 Fitting-Out

Various - Multiple Contracts

**Armament: N/A**

**Major Electronics: N/A**

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

APPROPRIATION: SHIPBUILDING AND CONVERSION, NAVY

BUDGET ACTIVITY: BA-5 AUXILIARIES, CRAFT, PRIOR YEAR PROGRAMS BUDGET LINE ITEM: 5113	P-1 ITEM NOMENCLATURE: SERVICE CRAFT		SUBHEAD: FY 03 2552 FY 04 1552		FY 05 1552 FY 06 1552	
	FY 2004 QTY TOT COST		FY 2005 QTY TOT COST		FY 2006 QTY TOT COST	
ELEMENT OF COST						
BASIC CONST/CONVERSION	6	11,684	5	13,585	8	44,141
CHANGE ORDERS		13		46		0
HM&E		0		597		0
OTHER COST		30		1,494		695
TOTAL SHIP ESTIMATE		11,727		15,722		44,836
NET P-1 LINE ITEM		11,727		15,722		44,836
PROGRAM OFFICE ESTIMATES						
	1-TWR	4,500	1-ARC	4,800	2-YTB	11,365
	1-YON	2,743	1-YON	3,365	1-ARC	4,200
	1-YFN	1,052	1-FPC	5,000	1-YFN	1,200
	<u>3-YC</u>	<u>3,432</u>	2-YC	1,549	1-YON	3,315
	6	11,727	<u>0-YP</u>	<u>1,008</u>	<u>3-YP</u>	<u>24,756</u>
			5	15,722	8	44,836

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

APPROPRIATION: SHIPBUILDING AND CONVERSION, NAVY

BUDGET ACTIVITY: BA-5 AUXILIARIES, CRAFT, PRIOR YEAR PROGRAMS		P-1 ITEM NOMENCLATURE:		SUBHEAD: 1552		
BUDGET LINE ITEM: 5113		SERVICE CRAFT				
ELEMENT OF COST	FY 2007		FY 2008		FY 2009	
	QTY	TOT COST	QTY	TOT COST	QTY	TOT COST
BASIC CONST/CONVERSION	5	43,787	4	30,084	3	28,693
CHANGE ORDERS		181		1,721		1,640
OTHER COST		1,086		1,098		1,070
TOTAL SHIP ESTIMATE		45,054		32,903		31,403
NET P-1 LINE ITEM		45,054		32,903		31,403
PROGRAM OFFICE ESTIMATES						
	3-YTB	29,414	2-YON	8,000	1-YON	6,853
	1-YON	4,200	1-YTB	12,394	1-YTB	11,778
	<u>1-YP</u>	<u>11,440</u>	<u>1-YP</u>	<u>12,509</u>	<u>1-YP</u>	<u>12,772</u>
	5	45,054	4	32,903	3	31,403

SHIPBUILDING AND CONVERSION, NAVY  
SHIP PRODUCTION SCHEDULE

SHIP TYPE	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
YC 1671	Basic Marine	2004	May-04	Sep-04	Dec-05
YC 1674	Basic Marine	2004	Sep-06	Sep-06	Jun-07
YC 1675	Basic Marine	2004	Sep-06	Nov-06	Aug-07
YC 1672	Basic Marine	2005	Mar-05	Jul-05	Jul-06
YC 1673	Basic Marine	2005	Mar-05	Jul-05	Jul-06
YFN 1286	Basic Marine	2004	May-04	Sep-04	Dec-05
YON 0326	Sundial Marine	2005	May-05	Oct-05	Dec-06
YON 0327	Sundial Marine	2006	Jul-06	Dec-06	Aug-07
YON 0328	Sundial Marine	2007	Jan-07	Mar-07	Nov-07
YON 0801	TBD	2008	Jan-08	Mar-08	Nov-08
YON 0802	TBD	2008	Jan-08	Mar-08	Nov-08
YON 0901	TBD	2009	Jan-09	Mar-09	Nov-09
YP 0703	TBD	2006	Sep-06	Oct-06	Feb-08
YP 0704	TBD	2006	Sep-06	Mar-07	Aug-08
YP 0705	TBD	2006	Sep-06	Dec-06	Dec-08
YP 0701	TBD	2007	Jun-07	Jun-07	Feb-09
YP 0801	TBD	2008	Jun-08	Jun-08	Jun-09
YP 0901	TBD	2009	Jan-09	Mar-09	Mar-10
YTB 0039	Pacific Tug Boat SVCS	2006	May-06	Jun-06	Jun-07
YTB 0040	Pacific Tug Boat SVCS	2006	May-06	Aug-06	Aug-07
YTB 0701	TBD	2007	Jan-07	Mar-07	Mar-08
YTB 0702	TBD	2007	Jan-07	May-07	May-08
YTB 0703	TBD	2007	Jan-07	Jul-07	Jun-08
YTB 0801	TBD	2008	Jan-08	Jul-08	Jun-09
YTB 0901	TBD	2009	Jun-09	Nov-09	Jan-11
TWR	Swath Ocean Systems	2004	Sep-04	Nov-04	Mar-06
FPC	Swath Ocean Systems	2005	May-06	Jun-05	Sep-05
ARC 0502	Swath Ocean Systems	2005	Sep-05	Oct-05	Oct-06
ARC 0004	Swath Ocean Systems	2006	Aug-06	Sep-06	Sep-07

BUDGET ITEM JUSTIFICATION SHEET (P-40) FY 2008 PRESIDENT'S BUDGET ESTIMATES										DATE: FEBRUARY 2007	
APPROPRIATION/BUDGET ACTIVITY/BUDGET LINE ITEM SHIPBUILDING AND CONVERSION, NAVY/BA -5 Auxiliaries and Craft/BLI 5139										P-1 ITEM NOMENCLATURE LCAC SLEP	
	PRIOR YEARS	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TO COMPLETE	TOTAL PROGRAM
QUANTITY	17	6	6	5	6	6	6	6	6	9	73
End Cost	395.5	98.6	110.2	98.5	111.0	113.5	116.9	119.3	121.8	246.0	1,531.3
Less Advance Procurement	27.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.9
Less FY 2003 Transfer	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
Less Cost to Complete for FY02	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
Less Cost to Complete for FY03	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9
Less Katrina Supplemental	18.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.5
Full Funding TOA	333.6	98.6	110.2	98.5	111.0	113.5	116.9	119.3	121.8	246.0	1,469.4
Plus Advance Procurement	27.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.9
Plus Transfer Cost	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
Plus Cost to Complete for FY02	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
Plus Cost to Complete for FY03	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9
Plus Katrina Supplemental	0.0	18.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.5
Total Obligational Authority	377.0	117.1	110.2	98.5	111.0	113.5	116.9	119.3	121.8	246.0	#REF!
Plus Outfitting and Post Delivery	6.9	2.6	2.4	1.1	0.9	0.9	0.6	0.5	0.3	0.3	16.5
Plus Escalation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	383.9	119.7	112.6	99.6	111.9	114.4	117.5	119.8	122.1	246.3	#REF!
Unit Cost (Ave. End Cost)	23.3	16.4	18.4	19.7	18.5	18.9	19.5	19.9	20.3	27.3	21.0

**MISSION:** Landing Craft Air Cushion (LCAC) transports weapon systems, equipment, cargo and personnel of the assault elements of the Marine Air/Ground Task Force from ship to shore and across the beach.

The LCAC Service Life Extension Program (SLEP) extends the craft service life from twenty years to thirty years. For FY2000 through FY2003, the program replaces the existing buoyancy box with the latest configuration. The new hull incorporates four modifications: 1) additional internal compartmentation to increase cargo carrying capacity, 2) a modified fuel system to increase range, 3) improved skirt attachments to reduce maintenance and 4) deep skirt to improve performance and maximize safety.

The SLEP will also include the C4N electronic suite replacement in the early years of the program as well as a modified set of TF40B engines, designated ETF40B. For FY2004 and beyond, the buoyancy box will no longer be replaced. Instead, the four modifications above will be installed on existing buoyancy boxes which will be refurbished rather than replaced. All other aspects of the program will remain unchanged. This change will allow construction to be accomplished near the operating units, saving transportation as well as disassembly and buoyancy box construction costs while still achieving the same operational capabilities and service life extension. The following are also included in the SLEP Program: 1)SLEP configuration Full Mission Trainer Upgrades in each Fiscal Year through FY08 .

Characteristics: (no change in overall craft dimensions)

**Hull**  
 Length overall            88ft  
 Beam                         47ft  
 Displacement            150 tons  
 Draft                         None (rides on cushion of air)

**Armament**  
 None

UNCLASSIFIED

EXHIBIT P-5  
FY 2008 President's Budget  
FEBRUARY 2007

APPROPRIATION: SHIPBUILDING AND  
CONVERSION, NAVY

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

BUDGET ACTIVITY: 5  
AUXILIARIES AND CRAFT

P-1 ITEM NOMENCLATURE: LCAC  
LANDING CRAFT AIR CUSHION

ELEMENT OF COST	FY 2004		FY 2005	
	QTY	TOT COST	QTY	TOT COST
PLAN COSTS	4	0	5	0
BASIC CONST/CONVERSION		37,322		34,338
CHANGE ORDERS		0		0
ELECTRONICS		8,083		7,348
PROPULSION EQUIPMENT		0		0
HM&E		36,349		43,485
OTHER COST		4,861		4,873
ORDNANCE		0		0
ESCALATION		0		0
TOTAL SHIP ESTIMATE		86,615		90,044
ADVANCE PROCUREMENT		0		0
KATRINA SUPPLEMENTAL		13,977		0
NET P-1 LINE 1		72,638		90,044

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APPROPRIATION: SHIPBUILDING AND  
 CONVERSION, NAVY

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

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BUDGET ACTIVITY: 5	P-1 ITEM NOMENCLATURE: LCAC	SUBHEAD: 1576
AUXILIARIES AND CRAFT AND PRIOR YEAR SHIPS	LANDING CRAFT AIR CUSHION	

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ELEMENT OF COST	FY 2006		FY 2007		FY 2008		FY 2009	
	QTY	TOT COST						
PLAN COSTS	5	0	6	0	5	0	6	0
BASIC CONST/CONVERSION		43,833		53,387		47,023		55,357
CHANGE ORDERS		0		0		0		0
ELECTRONICS		10,264		11,780		9,138		8,737
PROPULSION EQUIPMENT		0		0		0		0
HM&E		40,073		40,501		37,708		42,135
OTHER COST		4,468		4,557		4,649		4,742
ORDNANCE		0		0		0		0
ESCALATION		0		0		0		0
TOTAL SHIP ESTIMATE		98,638		110,225		98,518		110,971
ADVANCE PROCUREMENT		0		0		0		0
NET P-1 LINE ITEM		98,638		110,225		98,518		110,971

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CLASSIFICATION

EXHIBIT P-27  
FY 2008 President's  
FEBRUARY 2007

SHIPBUILDING AND CONVERSION, NAVY  
SHIP PRODUCTION SCHEDULE

SHIP TYPE	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
LCAC	TM&LS	2003	Dec-02	Jul-03	Sep-06
LCAC	TM&LS	2004	Mar-04	Oct-04	Oct-07
LCAC	Titan	2005	Jan-05	May-05	Aug-07
LCAC	L3	2006	Aug-06	Mar-07	Feb-08
LCAC	L3	2007	Dec-06	Sep-07	Nov-08
LCAC	TBD	2008	Dec-07	Sep-08	Nov-09
LCAC	TBD	2009	Dec-08	Sep-09	Nov-10
LCAC	TBD	2010	Dec-09	Sep-10	Jan-12
LCAC	TBD	2011	Dec-10	Sep-11	Nov-12
LCAC	TBD	2012	Dec-11	Sep-12	Mar-14
LCAC	TBD	2013	Dec-12	Sep-13	Jan-15

BUDGET ITEM JUSTIFICATION SHEET (P-40)  
FY 2008/2009 President's Budget

February 2007

Shipbuilding and Conversion, Navy	Auxiliaries, Craft and Prior Year Program Costs							BLI 530000 Completion of PY Shipbuilding Programs			
	Prior Year	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Program
<b>Cost To Complete</b>											
Virginia Class	0.0	0.0	0.0	109.0	83.4	108.5	0.0	0.0	0.0	0.0	300.9
CVN	0.0	0.0	0.0	336.5	0.0	0.0	0.0	0.0	0.0	0.0	336.5
LPD 17 Class	0.0	0.0	0.0	66.0	0.0	0.0	0.0	0.0	0.0	0.0	66.0
<b>Hurricane Supplemental Funding:</b>											
DDG 51 Class		213.9									213.9
LPD 17 Class		894.2									894.2
LCACs		18.5									18.5
Other Hurricane Supplemental		1,292.1									1,292.1
<b>Total</b>	<b>0.0</b>	<b>2,418.7</b>	<b>0.0</b>	<b>511.5</b>	<b>83.4</b>	<b>108.5</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>3,122.1</b>

Note: General Provision 8080 of FY2007 DOD Appropriations Act directs that funds appropriated for the Completion of Prior Year Shipbuilding Programs be merged with and be available for the same purposes as the appropriation to which transferred.

Note: FY 2006 Total includes \$205.7M transferred to the following programs: LHD (\$24.4M), LPD (\$153.0M) and Outfitting (\$28.3M); and \$38.8M on withhold for LCS.

**COST TO COMPLETE**

**Virginia Class Submarine:**

Funds are required for completion of prior year ships of the VA Class Program (SSNs 777, 778, 779, and 780). Funds are required to complete the Virginia Class Submarine Design, Construction Cost Growth, higher than expected costs for Special Hull Treatment (SHT) and higher than expected costs for Electronic, Propulsor and Special Operating Forces (SOF) components.

**LPD 17:**

Funds in FY 2008 are required for completion of prior year LPD Class ship LPD 23. This requirement is due to a number of factors that have occurred since the ship was appropriated. Factors include: changing/shrinking industrial base, ship quantity, higher overhead rates, worker attrition rates, and labor inefficiency.

**CVN**

A total of \$336.5M in FY 2008 is requested to compensate for CVN 77 cost increases resulting from unbudgeted escalation funds, increased labor hours to construct the ship and increased material costs.

**Hurricane Supplemental Funding**

Funds are required due to damages and related cost increases for ships under contract caused by Hurricanes Katrina and Rita.

UNCLASSIFIED  
CLASSIFICATION

P-5 Exhibit  
FY2008/2009 President's Budget  
February, 2007

APPROPRIATION: SHIPBUILDING AND CONVERSION  
BUDGET ACTIVITY: 5  
COMPLETION OF PRIOR YEAR PROGRAM

PROGRAM	FY 2006 TOT COST	FY 2007 TOT COST	FY 2008 TOT COST	FY 2009 TOT COST
VIRGINIA CLASS SUBMARINE		0	109,000	83,425
		0	109,000	83,425
CVN		0	336,475	0
		0	336,475	0
LPD 17		0	65,999	0
		0	65,999	0
<u>HURRICANE SUPPLEMENTAL:</u>				
<u>DDG</u>	For: FY 2000 (DDG 98)	5,400		
	FY 2001 (DDG 100)	108,600		
	FY 2002 (DDG 103)	29,100		
	FY 2003 (DDG 105)	26,500		
	FY 2004 (DDG 107)	15,600		
	FY 2005 (DDG 110)	28,700		
<u>LPD-17:</u>	For: FY 1999 (LPD 18)	141,000		
	FY 2000 (LPD 19-20)	279,000		
	FY 2003 (LPD 21)	146,200		
	FY 2004 (LPD 22)	157,000		
	FY 2005 (LPD 23)	171,000		
<u>LCAC:</u>	For: FY 2003 (LCAC SLEP 8-10 & 21)	4,523		
	FY 2004 (LCAC SLEP 26, 28, 39, 40)	13,977		
<u>OTHER HURRICANE SUPPLEMENTAL</u>	1,292,100			
<b><u>TOTAL</u></b>	2,418,700	0	511,474	83,425

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