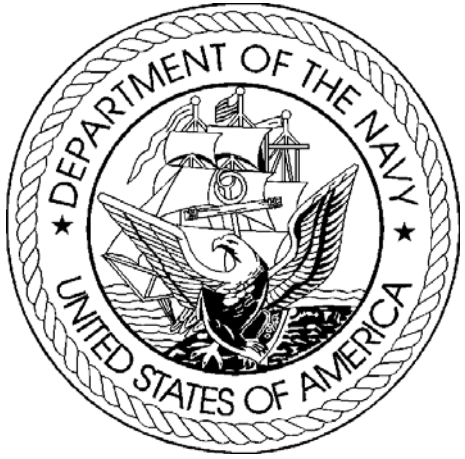
DEPARTMENT OF THE NAVY
FISCAL YEAR (FY) 2009
BUDGET ESTIMATES



JUSTIFICATION OF ESTIMATES
FEBRUARY 2008

SHIPBUILDING AND CONVERSION, NAVY

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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, $2,712,251,000;
Carrier Replacement Program (AP), $1,214,188,000;
Virginia Class Submarine, $2,107,040,000;
Virginia Class Submarine (AP), $1,316,548,000;
CVN Refuelings (AP), $21,389,000;
CVN Refueling, $606,561,000;
SSBN Submarine Refuelings, $221,823,000;
SSBN Submarine Refueling (AP), $39,363,000;
DDG-1000 Program, $2,502,803,000;
DDG-1000 Program, (AP), $50,980,000;
Littoral Combat Ship, (LCS), $920,000,000;
LPD-17, $103,216,000;
Intratheater Connector, $174,782,000;
LCAC Service Life Extension Program, $110,918,000;
Prior year shipbuilding costs, $165,152,000;
Service Craft, $36,317,000; and
For outfitting, post delivery, conversions, and first destination transportation, $429,587,000.

In all: $12,732,918,000, to remain available for obligation until September 30, 2013: *Provided,* That additional obligations may be incurred after September 30, 2013, 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."

DEPARTMENT OF DEFENSE

FY 2009 PROCUREMENT PROGRAM

SUMMARY
($ IN MILLIONS)

22 JAN 2008

APPROPRIATION	FY 2007	FY 2008	FY 2009
SHIPBUILDING & CONVERSION, NAVY	10,151.5	13,506.0	12,732.9
TOTAL Department of the Navy	10,151.5	13,506.0	12,732.9

Department of the Navy

FY 2009 PROCUREMENT PROGRAM

SUMMARY
($ IN MILLIONS)

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Department of the Navy

FY 2009 PROCUREMENT PROGRAM

SUMMARY
($ IN MILLIONS)

22 JAN 2008

APPROPRIATION: SHIPBUILDING & CONVERSION, NAVY

ACTIVITY	FY 2007	FY 2008	FY 2009
02. OTHER WARSHIPS	7,994.6	10,135.1	11,712.9
03. AMPHIBIOUS SHIPS	1,510.8	2,863.6	278.0
05. AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRAM COSTS	646.1	507.4	742.0
TOTAL SHIPBUILDING & CONVERSION, NAVY	10,151.5	13,506.0	12,732.9

Department of the Navy
FY 2009 PROCUREMENT PROGRAM EXHIBIT P-1

APPROPRIATION: 1611N SHIPBUILDING & CONVERSION, NAVY DATE: 22 JAN 2008

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2007 QUANTITY	FY 2007 COST	FY 2008 QUANTITY	FY 2008 COST	FY 2009 QUANTITY	FY 2009 COST	SEC
	BUDGET ACTIVITY 02: OTHER WARSHIPS								
	OTHER WARSHIPS								
1	CARRIER REPLACEMENT PROGRAM	A		(3,275.8)	1	(6,714.7)		(2,712.3)	U
	LESS: ADVANCE PROCUREMENT (PY)			(-2,957.4)		(-3,693.2)			U
				318.4		3,021.5		2,712.3	
2	CARRIER REPLACEMENT PROGRAM ADVANCE PROCUREMENT (CY)			788.6		123.5		1,214.2	U
	(FY 2007 FOR FY 2008) (MEMO)			(735.8)					
	(FY 2007 FOR FY 2012) (MEMO)			(52.8)					
	(FY 2008 FOR FY 2012) (MEMO)					(123.5)			
	(FY 2009 FOR FY 2012) (MEMO)							(1,214.2)	
3	VIRGINIA CLASS SUBMARINE	B	1	(2,716.9)	1	(2,745.7)	1	(2,861.1)	U
	LESS: ADVANCE PROCUREMENT (PY)			(-837.9)		(-853.1)		(-754.0)	U
				1,879.0		1,892.6		2,107.0	
4	VIRGINIA CLASS SUBMARINE ADVANCE PROCUREMENT (CY)			673.7		1,281.7		1,316.5	U
	(FY 2007 FOR FY 2008) (MEMO)			(212.7)					
	(FY 2007 FOR FY 2009) (MEMO)			(461.0)					
	(FY 2008 FOR FY 2009) (MEMO)					(293.0)			
	(FY 2008 FOR FY 2010) (MEMO)					(474.7)			
	(FY 2008 FOR FY 2011) (MEMO)					(513.9)			
	(FY 2009 FOR FY 2010) (MEMO)							(318.6)	
	(FY 2009 FOR FY 2011) (MEMO)							(672.7)	
	(FY 2009 FOR FY 2012) (MEMO)							(162.6)	
	(FY 2009 FOR FY 2013) (MEMO)							(162.6)	
5	CVN REFUELING OVERHAULS	A		950.5			1	606.6	U
6	CVN REFUELING OVERHAULS ADVANCE PROCUREMENT (CY)			116.6		295.3		21.4	U
	(FY 2007 FOR FY 2010) (MEMO)			(116.6)					
	(FY 2008 FOR FY 2010) (MEMO)					(295.3)			
	(FY 2009 FOR FY 2013) (MEMO)							(21.4)	

Department of the Navy
FY 2009 PROCUREMENT PROGRAM EXHIBIT P-1

APPROPRIATION: 1611N SHIPBUILDING & CONVERSION, NAVY DATE: 22 JAN 2008

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2007 QUANTITY	FY 2007 COST	FY 2008 QUANTITY	FY 2008 COST	FY 2009 QUANTITY	FY 2009 COST	SEC
7	SSN ERO	A		(4.0)					U
	LESS: ADVANCE PROCUREMENT (PY)			(-4.0)					U
				---		---		---	
8	SSBN ERO		1	(287.2)	1	(222.5)	1	(263.8)	U
	LESS: ADVANCE PROCUREMENT (PY)			(-61.0)		(-36.2)		(-42.0)	U
				---		---		---	
				226.2		186.3		221.8	
9	SSBN ERO								
	ADVANCE PROCUREMENT (CY)			37.0		42.4		39.4	U
	(FY 2007 FOR FY 2008) (MEMO)			(31.7)					
	(FY 2007 FOR FY 2009) (MEMO)			(5.3)					
	(FY 2008 FOR FY 2009) (MEMO)					(36.7)			
	(FY 2008 FOR FY 2010) (MEMO)					(5.7)			
	(FY 2009 FOR FY 2010) (MEMO)							(34.1)	
	(FY 2009 FOR FY 2011) (MEMO)							(5.2)	
10	DDG 1000	A	2	(3,567.6)		(2,757.0)	1	(2,652.6)	U
	LESS: ADVANCE PROCUREMENT (PY)			(-1,010.3)				(-149.8)	U
				---		---		---	
				2,557.3		2,757.0		2,502.8	
11	DDG 1000								
	ADVANCE PROCUREMENT (CY)					149.8		51.0	U
	(FY 2008 FOR FY 2009) (MEMO)					(149.8)			
	(FY 2009 FOR FY 2010) (MEMO)							(51.0)	
12	DDG-51	A		354.3		47.7			U
13	LITTORAL COMBAT SHIP	A		93.0	1	337.1	2	920.0	U
				---		---		---	
TOTAL OTHER WARSHIPS				7,994.6		10,135.1		11,712.9	

Department of the Navy
FY 2009 PROCUREMENT PROGRAM EXHIBIT P-1

APPROPRIATION: 1611N SHIPBUILDING & CONVERSION, NAVY DATE: 22 JAN 2008

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2007 QUANTITY	FY 2007 COST	FY 2008 QUANTITY	FY 2008 COST	FY 2009 QUANTITY	FY 2009 COST	SEC
	BUDGET ACTIVITY 03: AMPHIBIOUS SHIPS								
	AMPHIBIOUS SHIPS								
14	LPD-17	A		(86.9)	1	(1,748.1)		(152.9)	U
	LESS: ADVANCE PROCUREMENT (PY)			(-3.5)		(-299.9)		(-49.7)	U
				83.4		1,448.2		103.2	
15	LPD-17 ADVANCE PROCUREMENT (CY)			296.2		49.7			U
	(FY 2007 FOR FY 2008) (MEMO)			(296.2)					
	(FY 2008 FOR FY 2009) (MEMO)					(49.7)			
16	LHA REPLACEMENT	A	1	(1,428.8)		(1,365.8)			U
	LESS: ADVANCE PROCUREMENT (PY)			(-297.7)					U
				1,131.1		1,365.8			
17	INTRATHEATER CONNECTOR	B					1	174.8	U
	TOTAL AMPHIBIOUS SHIPS			1,510.8		2,863.6		278.0	
	BUDGET ACTIVITY 05: AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRAM COSTS								
	AUXILIARIES, CRAFT AND PRIOR YR PROGRAM COST								
18	SPECIAL PURPOSE	A		2.9					U
19	OCEANOGRAPHIC SHIPS	A	1	116.5					U
20	OUTFITTING	A		369.1		376.9		429.6	U
21	SERVICE CRAFT	A		47.4		32.7		36.3	U
22	LCAC SLEP	A	6	110.2	5	97.8	6	110.9	U

Department of the Navy
FY 2009 PROCUREMENT PROGRAM EXHIBIT P-1

APPROPRIATION: 1611N SHIPBUILDING & CONVERSION, NAVY DATE: 22 JAN 2008

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2007 QUANTITY	FY 2007 COST	FY 2008 QUANTITY	FY 2008 COST	FY 2009 QUANTITY	FY 2009 COST	SEC
23	COMPLETION OF PY SHIPBUILDING PROGRAMS	B						(165.2)	U
	SSN-774 (MEMO NON ADD)							(81.0)	U
	LPD (MEMO NON ADD)							(33.1)	U
								165.2	
TOTAL AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRAM COSTS				646.1		507.4		742.0	
TOTAL SHIPBUILDING & CONVERSION, NAVY				10,151.5		13,506.0		12,732.9	

CLASSIFICATION: UNCLASSIFIED

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

DATE: February 2008

APPROPRIATION/BUDGET ACTIVITY
SHIPBUILDING AND CONVERSION, NAVY/BA 2 Other Warships

P-1 LINE ITEM NOMENCLATURE
CARRIER REPLACEMENT PROGRAM
BLI: 2001 / SUBHEAD NO.

(Dollars in Millions)	PRIOR YR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TO COMP	TOTAL PROG
QUANTITY	9.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	1.0	12
End Cost	24,866.5	0.0	10,457.9	0.0	0.0	0.0	9,191.6	0.0	10,716.8	55,232.8
Less Advance Procurement	2,821.3	0.0	3,693.2	0.0	0.0	0.0	2,662.1	0.0	3,213.1	12,389.7
Less Subsequent Year FF	0.0	0.0	4,079.7	0.0	0.0	0.0	4,217.7	0.0	4,877.4	13,174.8
Less Escalation	66.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.4
Subsequent Funds	0.0	0.0	0.0	2,712.3	688.0	679.4	0.0	2,285.7	0.0	6,365.4
Full Funding TOA	22,045.2	0.0	2,685.0	2,712.3	688.0	679.4	2,311.9	2,285.7	2,626.3	36,033.8
Plus Advance Procurement	6,174.2	788.6	123.5	1,214.2	806.6	465.0	201.3	886.0	3,213.1	13,872.5
Cost to Complete	0.0	0.0	0.0	20.5	0.0	0.0	0.0	0.0	0.0	20.5
Transfer	1,278.6	318.4	336.5	0.0	0.0	0.0	0.0	0.0	0.0	1,933.5
Total Obligational Authority	29,498.0	1,107.0	3,145.0	3,926.4	1,494.6	1,144.4	2,513.2	3,171.7	5,839.4	51,839.7
Plus Outfitting / Plus Post Delivery	70.7	23.5	32.6	48.8	0.0	0.0	0.0	16.0	426.2	617.8
Plus Escalation	66.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.4
Total	29,635.1	1,130.4	3,177.7	3,975.2	1,494.6	1,144.4	2,513.2	3,187.7	6,265.6	52,523.9
Unit Cost (Ave. End Cost)	2,762.9	0.0	10,457.9	0.0	0.0	0.0	9,191.6	0.0	10,716.8	4,602.7

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
Months to Complete:
Award to Delivery: 95
Construction: 62
Delivery Date: 04/2008*
Completion of Fitting Out:
OWLD: 01/2010

CVN 78 Production Status:
Contract Award: 06/2008
Months to Complete:
Award to Delivery: 87
Construction: 64
Delivery Date: 09/2015
Completion of Fitting Out:
OWLD: 10/2016

CVN 77:
Major Electronics/Ordnance:
Automated Radio
Ship Self Defense System
Carrier Tactical Support
CEC (AN/USG-2)
SPS-48E
Rolling Airframe Missile

CVN 78:
Major Electronics/Ordnance:
Common C2 System
Electromagnetic Aircraft
Dual Band Radar (DBR)
Advanced Arresting Gear

*04/2008 is contractual date for CVN 77, projected delivery date is 11/2008.

CLASSIFICATION:
UNCLASSIFIED

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

BUDGET ACTIVITY: 2
Other Warships

P-1 LINE ITEM NOMENCLATURE
CARRIER REPLACEMENT PROGRAM

SUBHEAD NO. BLI: 2001

	FY 2001		FY 2008	
ELEMENT OF COST	**QTY**	**COST**	**QTY**	**COST**
PLAN COSTS	1		1	2,354,873
BASIC CONST/CONVERSION		3,747,364		5,187,527
CHANGE ORDERS		210,880		235,601
ELECTRONICS		245,709		308,157
PROPULSION EQUIPMENT		695,870		1,515,612
HM&E		50,808		52,328
OTHER COST		69,659		88,975
ORDNANCE		187,481		714,800
ESCALATION		634,903		
TOTAL SHIP ESTIMATE		5,842,674		10,457,873
LESS:				
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				735,800
Less: FY 2009 Subsequent Full Funding				2,712,251
Less: FY 2010 Subsequent Full Funding				688,018
Less: FY 2011 Subsequent Full Funding				679,419
Less: FY 1998 Advance Procurement		48,737		
Less: FY 1999 Advance Procurement		122,897		
Less: FY 2000 Advance Procurement		747,503		
Less: FY 2003 Subsequent Full Funding		88,170		
Less: FY 2006 Transfer		143,573		
Less: FY 2007 Transfer		318,400		
Less: FY 2008 Transfer		336,475		
Less: FY 2009 Cost to Complete		20,516		
NET P-1 LINE ITEM:		4,016,403		2,685,021

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimate - Basic/Escalation

Ship Type: CARRIER REPLACEMENT PROGRAM

I. Design/Schedule	Start/Issue	Complete /Response	Reissue	Complete /Response
Issue date for TLR	APRIL 04			
Issue date for TLS	SEPT 06			
Preliminary Design	JAN 03	JUL 08		
Contract Design	MAY 04	APR 08		
Detail Design	JAN 04	SEP 09		
Request for Proposals	JUL 07	SEP 07		
Design Agent	NORTHROP GRUMMAN NEWPORT NEWS			

II. Classification of Cost Estimate C

III. Basic Construction/Conversion

A. Actual Award Date	JUN 08
B. Contract Type (and Share Line if applicable)	CPIF
C. RFP Response Date	OCT 07

IV. Escalation

Escalation Termination Date	
Escalation Requirement	
Labor/Material Split	
Allowable Overhead Rate	

V. Other Basic(Reserves/Miscellaneous)	Amount

SHIPBUILDING AND CONVERSION, NAVY
SHIP PRODUCTION SCHEDULE

SHIP TYPE	HULL NUMBER	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	JUN-08	JUN-08	SEP-15
CVN	79	NORTHROP GRUMMAN NEWPORT NEWS	2012	DEC-11	MAR-12	SEP-19

*April 2008 is contractual date. Projected Delivery Date is Nov-08.

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type: CARRIER REPLACEMENT PROGRAM	FY 2001		FY 2008	
	QTY	COST	QTY	COST
HM&E				
a. P-35 Items				
INTEGRATED COMMUNICATIONS AND ADVANCED NETWORKS/INTEGRATED VOICE NETWORK(ICAN)	0	11,120	0	0
Subtotal		11,120		0
b. Major Items				
COMPOSITE MAST UPGRADE	0	4,950	0	0
ENVIRONMENTAL EQUIPMENT (WASTE MGMT)	0	1,060	0	0
HM&E ENGINEERING SERVICES	0	9,194	0	31,138
INTEGRATED COMMUNICATIONS AND ADVANCED NETWORKS/MACHINERY CONTROL MONITORING SYSTEM (ICAN)	0	3,125	0	0
INTEGRATED LOGISTICS SUPPORT	0	4,488	0	4,160
LIFE RAFTS	0	1,418	0	2,252
NUCLEAR PLANT HANDLING	0	1,179	0	0
RING LASER GYRO NAVIGATOR	0	2,927	0	0
SUPSHIP MATERIAL AND GFE	0	2,250	0	3,024
TEST & INTEGRATION	0	3,330	0	7,754
TRUCKS (FORKLIFTS)	0	2,929	0	500
Subtotal		36,850		48,828
c. Other HM&E				
	0	2,838	0	3,500
Subtotal		2,838		3,500
Total HM&E		50,808		52,328

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type: CARRIER REPLACEMENT PROGRAM	FY 2001		FY 2008	
	QTY	COST	QTY	COST
ELECTRONICS				
a. P-35 Items				
AUTOMATED RADIO COMMUNICATIONS (ARC)	1	16,681	0	0
INTEGRATED STRIKE PLANNING & EXECUTION SYSTEMS (ISP&E)	0	0	1	19,129
MOBILE USER OBJECT SYSTEM (MUOS)	0	0	1	3,545
AN/USQ-T46X(V)X, BATTLE FORCE TACTICAL TRAINING SYSTEM (BFTT)	1	5,882	1	6,621
AN/USQ-123(V) , COMMUNICATIONS DATA LINK-SYSTEM (CDL-S)	1	6,091	1	3,381
CANES	0	0	1	17,318
AN/USG-2, COOPERATIVE ENGAGEMENT CAPABILITY (CEC)	1	6,836	1	11,230
DISTRIBUTED COMMON GROUND STATION - NAVY (DCGS-N)	1	23,986	1	2,398
DIGITAL MODULAR RADIO (DMR) ULTRA HIGH FREQUENCY/VERY HIGH FREQUENCY LINE OF SIGHT (EHF/VHF LOS) SATCOM	1	13,075	1	8,567
AN/USQ-119(V)4, GLOBAL COMMAND AND CONTROL SYSTEM - MARITIME (GCCS-M)	1	11,621	1	1,644
HIGH FREQUENCY RADIO GROUP (HFRG)	1	4,409	1	3,539
AN/UPX-29(V), INTERROGATOR FRIEND OR FOE (IFF) W/MK XII	1	5,284	1	9,745
AN/USQ-153 C4I NETWORKS, UNCLASSIFIED/CLASSIFIED INTEGRATED SHIPBOARD NETWORK SYSTEM (ISNS)	1	13,275	0	0
AN/SLQ-32(V), ELECTRONIC WARFARE SYSTEM (EWS)	1	6,969	1	12,668
AN/SPN-41(V), INSTRUMENT LANDING SYSTEM (ILS)	1	3,339	1	3,418
SPN-46, AUTOMATIC CARRIER LANDING SYSTEM	1	9,381	0	0
MK 2 MOD 1B, SHIPS SELF DEFENSE SYSTEM (SSDS)	1	41,840	0	0
COMMON C2 SYSTEM	0	0	1	89,731
AN/SRQ-6/MCS-21, SHIPS SIGNAL EXPLOITATION EQUIPMENT INCREMENT E (SSEE)	1	5,856	1	9,375
SHIP SIGNAL EXPLOITATION SPACE (SSES/SI) COMMUNICATIONS	1	3,275	1	4,110
AN/TPX-42A(V)14, CARRIER AIR TRAFFIC CONTROL CENTER - DIRECT ALTITUDE AND IDENTIFY READOUT (CATCC-DAIR)	0	0	1	5,739
AN/SSN-6(V)X BLOCK 4, NAVIGATION SENSOR SYSTEM INTERFACE (NAVSSI)	0	0	1	4,338
TURNKEY RADIO COMMUNICATIONS SYSTEM (RCS)	1	17,976	1	18,992
NAVY MULTI-BAND TERMINAL (NMT)	0	0	2	6,951
AN/SPS-73(V)X LITE SYSTEM	0	0	2	3,661
Subtotal		195,776		246,100
b. Major Items				
AN/SMQ-11A(V)2	1	1,385	0	0

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type: CARRIER REPLACEMENT PROGRAM	FY 2001		FY 2008	
	QTY	COST	QTY	COST
AN/USQ-155(V)1 TACTICAL VARIANT SWITCH	1	1,671	1	2,492
AN/WSC-6 (V) 7, SUPER HIGH FREQUENCY SATCOM	1	1,819	0	0
AN/WSC-8 COMMERCIAL WIDEBAND SATELLITE PROGRAM (CWSP)	1	2,264	0	0
COMMON DATA LINK MANAGEMENT SYSTEM (CDLMS)	1	1,314	1	2,025
AN/USC-38(V) EXTREMELY HIGH FREQUENCY (EHF) SATCOM, FOLLOW-ON TERMINAL	1	2,173	0	0
INFORMATION ASSURANCE (IA)	1	1,291	1	2,641
MAST CLAMP CURRENT PROBE (MCCP) UPGRADE	1	2,925	1	2,025
AN/URC-141X(V), MULTI-FUNCTION INFORMATION DISTRIBUTION SYSTEM (MIDS)-ON-SHIP (MOS)	1	2,213	1	2,309
AN/SSN-6(V)X BLOCK 4, NAVIGATION SENSOR SYSTEM INTERFACE (NAVSSI)	1	1,927	0	0
AN/SLQ-25A DUAL, SURFACE SHIP TORPEDO DEFENSE SYSTEM, NIXIE	1	1,307	1	2,316
AN/UYK-158 (V), NAVAL TACTICAL COMMAND SUPPORT SYSTEM (NTCSS)/WEB ENABLE NTCSS (ENTCSS) BLOCK UPGRADE	1	1,894	1	1,463
AN/SMQ-11, METEOROLOGICAL/OCEANOGRAPHIC (METOC) SATELLITE RECEIVER - RECORD SET	0	0	1	1,214
PUBLICATIONS	1	4,568	0	0
READY ROOMS	1	1,627	0	0
SHIPBOARD AIR TRAFFIC CONTROL COMMUNICATIONS (SATCC)	1	1,785	1	2,099
SHIP TEST AND INTEGRATION PROGRAMS	1	2,645	1	3,595
AN/USQ-162(V)3 ARC AUTOMATED RADIO COMMUNICATIONS SYSTEM	0	0	1	1,329
AN/SPN-43, AIR TRAFFIC CONTROL MARSHALLING RADAR SET	1	2,363	0	0
TACTICAL VOICE TERMINAL (TVT)	1	1,240	0	0
AN/WSN-7(V)3, RING LASER GYRO NAVIGATOR (RLGN)	0	0	1	2,411
DISTRIBUTED SYSTEMS DESIGN INTEGRATION SERVICES	0	0	1	4,837
C4I INTEGRATION & COORDINATION	0	0	1	9,825
SEA-BASED JOINT PRECISION APPROACH & LANDING SYSTEM (JPALS)	0	0	1	2,637
Subtotal		36,411		43,218
c. Other ELECTRONICS				
	0	13,522	0	18,839
Subtotal		13,522		18,839
Total ELECTRONICS		245,709		308,157

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type: CARRIER REPLACEMENT PROGRAM	FY 2001		FY 2008	
	QTY	COST	QTY	COST
ORDNANCE				
a. P-35 Items				
LEGACY AIRCRAFT LAUNCHING SYSTEM	1	28,625	0	0
LEGACY AIRCRAFT RECOVERY SYSTEM	1	13,600	0	0
ELECTROMAGNETIC AIRCRAFT LAUNCHING SYSTEM (EMALS)	0	0	1	340,793
DUAL BAND RADAR (DBR) (SPY-3 AND VSR)	0	0	1	201,897
ADVANCED AIRCRAFT RECOVERY SYSTEM (AAG)	0	0	1	75,001
AN/SPQ-9(B), TARGET ACQUISITION RADAR	1	9,297	0	0
AN/SPS-48E, 3-D AIR SURVEILLANCE RADAR	1	12,113	0	0
AN/SPS-49A(V)2, 2-D AIR SURVEILLANCE RADAR	1	9,332	0	0
PHALANX BLOCK 1B MK 15 MOD 23, WEAPONS SYSTEM	0	0	3	18,301
AN/TPX-42A, CARRIER AIR TRAFFIC CONTROL CENTER -DIRECT ALTITUDE AND IDENTIFY READOUT (CATCC DAIR)	1	4,395	0	0
AN/SQQ-34, CARRIER-TACTICAL SUPPORT CENTER	1	12,017	1	7,131
IMPROVED FRESNEL LENS OPTICAL LANDING SYSTEM (IFLOLS)	1	5,449	1	7,098
AN/SQQ-34 MULTI-MODAL WORKSTATIONS (MMWS) UPGRADE	1	10,050	0	0
NATO SEA SPARROW MISSILE (NSSM)	1	28,430	0	0
MK29 GUIDED MISSILE LAUNCHING SYSTEM (GMLS) EVOLVED SEA SPARROW MISSILE (ESSM)	0	0	2	13,575
AN/SQQ-34 TACTICALLY INTEGRATED SENSORS (TIS) UPGRADE	1	6,373	0	0
AVIATION DATA MANAGEMENT AND CONTROL SYSTEM (ADMACS)	1	3,694	0	6,153
INTEGRATED LAUNCH AND RECOVERY TELEVISION SYSTEM (ILARTS)	1	2,996	0	5,999
AN/SPQ-14, ADVANCED SENSOR DISTRIBUTION SYSTEM (ASDS)	1	3,309	0	0
MK 49 GUIDED MISSILE LAUNCHING SYSTEM (GMLS), P/O MK 31 ROLLING AIRFRAME MISSILE (RAM)	2	13,087	2	14,335
Subtotal		162,767		690,283
b. Major Items				
ANSPS-67(V)1, 2-D SHORT RANGE SURFACE-SEARCH/NAVIGATION RADAR	1	1,226	0	0
AN/SPS-73	1	1,322	0	0
AVIATION MAINTENANCE FACILITY	1	1,345	1	1,266
CVIC	1	3,577	0	0
LANDING SIGNAL OFFICER DISPLAY SYSTEM (LSODS)	0	0	1	1,689
MORIAH BLOCK 2	1	1,144	1	1,383

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type: CARRIER REPLACEMENT PROGRAM	FY 2001		FY 2008	
	QTY	COST	QTY	COST
SHIP TEST AND INTEGRATION PROGRAMS	1	2,101	1	3,163
VISUAL	1	1,725	0	0
LRLS	0	0	1	1,376
JET BLAST DEFLECTORS (JBD)	0	0	1	1,858
JOINT STRIKE FIGHTER AUTONOMIC LOGISTICS INFORMATION SYSTEM (JSF ALIS)	0	0	1	2,298
Subtotal		12,440		13,033
c. Other ORDNANCE				
	0	12,274	0	11,484
Subtotal		12,274		11,484
Total ORDNANCE		187,481		714,800

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

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

Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **INTEGRATED COMMUNICATIONS AND ADVANCED NETWORKS/INTEGRATED VOICE NETWORK(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:

P-35 Category	**FY 2001**	
	QTY	**COST**
Major Hardware	1	5,120
Spares		325
Tech Data Documentation		650
Systems Engineering		1,650
Technical Engineering Services		2,665
Other		710
Total		11,120

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	L3 COMM Henschel / AVAYA		JAN-08		1	5,120

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 01	CVN 77	APR-08	8	4	APR-07

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

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

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

Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **AUTOMATED RADIO COMMUNICATIONS (ARC)**
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:

P-35 Category	**FY 2001**	
	QTY	**COST**
Major Hardware	1	282
Other Costs		14,896
Spares		20
Technical Support Services		825
Tech Data Documentation		135
Systems Engineering		523
Total		16,681

III. CONTRACT DATA:

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

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
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
MAJOR SHIP COMPONENT FACT SHEET
(Dollars in Thousands)

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

Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **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; and Strike Planning: Tactical Air (TACAIR), TOMAHAWK Debrief/Reporting.

II. CURRENT FUNDING:

P-35 Category	**FY 2008**	
	QTY	**COST**
Major Hardware	1	719
Tech Data Documentation		248
Systems Engineering		16,181
Other		1,981
Total		19,129

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 08	CVN 78	Various	TBD	TBD		1	719

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 08	CVN 78	SEP-15	TBD	12	TBD

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

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

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

Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **MOBILE USER OBJECT SYSTEM (MUOS)**
PARM Code: **PMW 750**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

Mobile User Object System (MUOS) is a narrowband Military Satellite Communications (MILSATCOM) system that supports a worldwide, multi-Service population of mobile and fixed-site terminal users in the Ultra High Frequency (UHF) band, providing increased communications capabilities. MUOS will replace the military's current narrowband tactical communications system, known as the Ultra High Frequency Follow-on (UFO) system. MUOS will enable secure, end-to-end communications for the naval warfighter via MUOS-compatible terminals installed aboard US Navy Ships.

II. CURRENT FUNDING:

P-35 Category	**FY 2008**	
	QTY	**COST**
Major Hardware	1	2,882
Tech Data Documentation		102
Systems Engineering		127
Technical Engineering Services		174
Other Costs		260
Total		3,545

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 08	CVN 78	Various	VARIOUS	TBD		1	2,882

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 08	CVN 78	SEP-15	28	TBD	TBD

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

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

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

Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **AN/USQ-T46X(V)X, BATTLE FORCE TACTICAL TRAINING SYSTEM (BFTT)**
PARM Code: **CVN 77 PEO IWS 1A5 / CVN 78 IWS 7C**

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:

P-35 Category	FY 2001 QTY	FY 2001 COST	FY 2008 QTY	FY 2008 COST
Major Hardware	1	3,385	1	4,288
Spares		150		129
Tech Data Documentation		250		0
Systems Engineering		525		712
Technical Engineering Services		802		474
Other Costs		770		1,018
Total		5,882		6,621

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	VARIOUS	VARIOUS			1	3,385
FY 08	CVN 78	Various	VARIOUS	TBD		1	4,288

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 01	CVN 77	APR-08	0	12	APR-07
FY 08	CVN 78	SEP-15	28	24	MAY-11

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

CVN 77 Installation deferred until PSA.

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

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

Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **AN/USQ-123(V) , COMMUNICATIONS DATA LINK-SYSTEM (CDL-S)**
PARM Code: **PMW 750**

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. CVN 78 is for a single link system.

II. CURRENT FUNDING:

P-35 Category	FY 2001 QTY	FY 2001 COST	FY 2008 QTY	FY 2008 COST
Major Hardware	1	3,000	1	2,500
Spares		147		161
Systems Engineering		150		350
Technical Engineering Services		1,883		140
Other Costs		911		230
Total		6,091		3,381

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	CUBIC Defense Applications		MAR-03		1	3,000
FY 08	CVN 78	TBD	TBD	TBD		1	2,500

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 01	CVN 77	APR-08	0	18	OCT-06
FY 08	CVN 78	SEP-15	30	20	JUL-11

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

CVN 77 Installation deferred until PSA.

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

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

Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **CANES**
PARM Code: **PMW 750**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

CANES will provide the Navy tactical/non-tactical information environment and infrastructure necessary to enable hosting, extended services reach-back and reach-forward, and relay functions. These capabilities will support real time and non-real time tactical/non-tactical edge connected, connectionless, and ad-hoc voice, video and data information exchange requirements. CANES is the technology replacement for the following existing afloat networks: Combined Enterprise Regional Information Exchange System-Maritime (CENTRIXS-M), limited shipboard Internal Voice (IC), Integrated Shipboard Networking System (ISNS), Sensitive Compartmented Information (SCI) Networks, to include the Top Secret enclave, and Video Information eXchange System (VIXS). CANES will incrementally collapse Unclassified, Secret, Secret-Releasable, and SCI enclaves. CANES Increment 1 is the current POR for CVN 78.

II. CURRENT FUNDING:

P-35 Category	**FY 2008**	
	QTY	**COST**
Major Hardware	1	11,855
Spares		360
Ancillary Hardware		83
Tech Data Documentation		136
Systems Engineering		2,650
Technical Engineering Services		426
Other Costs		1,808
Total		17,318

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 08	CVN 78	TBD	TBD	TBD		1	11,855

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 08	CVN 78	SEP-15	TBD	9	TBD

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

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

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

Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **AN/USG-2, COOPERATIVE ENGAGEMENT CAPABILITY (CEC)**
PARM Code: **CVN 77 IWS 6A / CVN 78 IWS 6F**

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:

P-35 Category	**FY 2001**		**FY 2008**	
	QTY	**COST**	**QTY**	**COST**
Major Hardware	1	5,571	1	4,472
Spares		128		624
Tech Data Documentation		37		0
Systems Engineering		629		761
Technical Engineering Services		214		314
Other Costs		257		5,059
Total		6,836		11,230

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	Raytheon		DEC-03		1	5,571
FY 08	CVN 78	Raytheon	TBD	TBD		1	4,472

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
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:

None

NOTE:

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

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

Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **DISTRIBUTED COMMON GROUND STATION - NAVY (DCGS-N)**
PARM Code: **PMW 750**

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:

P-35 Category	**FY 2001**		**FY 2008**	
	QTY	**COST**	**QTY**	**COST**
Major Hardware	1	7,451	1	917
Spares		259		0
Tech Data Documentation		0		74
Ancillary Hardware		0		81
Systems Engineering		12,370		617
Technical Engineering Services		906		160
Other Costs		3,000		549
Total		23,986		2,398

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	ultiple vendors managed by PAF				1	7,451
FY 08	CVN 78	Various	VARIOUS	TBD		1	917

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 01	CVN 77	APR-08	0	18	OCT-06
FY 08	CVN 78	SEP-15	TBD	9	TBD

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

CVN 77 Installation deferred until PSA.

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

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

Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **DIGITAL MODULAR RADIO (DMR) ULTRA HIGH FREQUENCY/VERY HIGH FREQUENCY LINE OF SIGHT (EHF/VHF LOS) SATCOM**
PARM Code: **PMW 750**

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:

P-35 Category	**FY 2001**		**FY 2008**	
	QTY	**COST**	**QTY**	**COST**
Major Hardware	1	10,614	1	7,819
Spares		50		50
Tech Data Documentation		164		0
Systems Engineering		1,087		162
Tech Engineering Services		316		174
Other Costs		844		362
Total		13,075		8,567

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	SSC San Diego				1	10,614
FY 08	CVN 78	VARIOUS	VARIOUS	TBD		1	7,819

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 01	CVN 77	APR-08	21	19	DEC-04
FY 08	CVN 78	SEP-15	TBD	19	TBD

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

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

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

Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **AN/USQ-119(V)4, GLOBAL COMMAND AND CONTROL SYSTEM - MARITIME (GCCS-M)**
PARM Code: **PMW 750**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

GCCS-M is the maritime implementation of the Joint Services GCCS providing a single integrated, scaleable 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 is Network Enabled Command & Control (NECC) software only to support the CANES Infrastructure.

II. CURRENT FUNDING:

P-35 Category	FY 2001 QTY	FY 2001 COST	FY 2008 QTY	FY 2008 COST
Major Hardware	1	4,210	0	0
Spares		357		0
Tech Data Documentation		205		125
Systems Engineering		1,455		1,404
Technical Engineering Services		3,002		75
Other Costs		2,352		40
Ancillary Equipment		40		0
Total		11,621		1,644

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	GWAC/COTS		JAN-04		1	4,210
FY 08	CVN 78	VARIOUS	VARIOUS	TBD		1	0

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 01	CVN 77	APR-08	0	6	OCT-07
FY 08	CVN 78	SEP-15	20	8	MAY-13

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:
CVN 77 Installation deferred until PSA.

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

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

Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **HIGH FREQUENCY RADIO GROUP (HFRG)**
PARM Code: **PMW 750**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

HFRG provides broadband High Frequency Radio Frequency capability to transmit (2-30MHz) and receive (10KHz-30MHz).

II. CURRENT FUNDING:

P-35 Category	**FY 2001**		**FY 2008**	
	QTY	**COST**	**QTY**	**COST**
Major Hardware	1	4,047	1	1,438
Spares		30		40
Ancillary Hardware		39		38
System Engineering		100		550
Tech Engineering Services		95		1,195
Other Costs		98		278
Total		4,409		3,539

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	Harris		SEP-03		1	4,047
FY 08	CVN 78	TBD	TBD	TBD		1	1,438

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 01	CVN 77	APR-08	21	12	JUL-05
FY 08	CVN 78	SEP-15	TBD	12	TBD

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

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

P-35 EXHIBIT
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February 2008

Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **AN/UPX-29(V), INTERROGATOR FRIEND OR FOE (IFF) W/MK XII**
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:

P-35 Category	**FY 2001**		**FY 2008**	
	QTY	**COST**	**QTY**	**COST**
Major Hardware	1	3,343	1	7,186
Spares		213		57
Systems Engineering		945		640
Other Costs		783		1,327
Ancillary Equipment		0		260
Technical Engineering Services		0		275
Total		5,284		9,745

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	Litton BAE Systems				1	3,343
FY 08	CVN 78	orthrop Grumman & BAE Systen	SS / FP	TBD		1	7,186

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
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:

None

NOTE:

SHIPBUILDING AND CONVERSION, NAVY
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(Dollars in Thousands)

P-35 EXHIBIT
FY 2009 President's Budget
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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **AN/USQ-153 C4I NETWORKS, UNCLASSIFIED/CLASSIFIED 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:

P-35 Category	**FY 2001**	
	QTY	**COST**
Major Hardware	1	5,863
Spares		93
Systems Engineering		388
Technical Engineering Services		6,158
Other Costs		773
Total		13,275

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	ultiple Vendors managed by PAF				1	5,863

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 01	CVN 77	APR-08	10	9	SEP-06

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

SHIPBUILDING AND CONVERSION, NAVY
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(Dollars in Thousands)

P-35 EXHIBIT
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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **AN/SLQ-32(V), ELECTRONIC WARFARE SYSTEM (EWS)**
PARM Code: **PEO IWS 2E**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

EWS is the Navy's primary electronic warfare system used on all surface combatants, amphibs, 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.

II. CURRENT FUNDING:

P-35 Category	**FY 2001**		**FY 2008**	
	QTY	**COST**	**QTY**	**COST**
Major Hardware	1	5,562	1	8,181
Spares		60		818
Ancillary Equipment		0		468
Systems Engineering		95		1,429
Technical Engineering Services		43		572
Other Costs		1,209		1,200
Total		6,969		12,668

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	ultiple vendors managed by PAF				1	5,562
FY 08	CVN 78	TBD	TBD	TBD		1	8,181

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 01	CVN 77	APR-08	13	32	JUL-04
FY 08	CVN 78	SEP-15	TBD	36	TBD

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

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(Dollars in Thousands)

P-35 EXHIBIT
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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **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:

P-35 Category	**FY 2001**		**FY 2008**	
	QTY	**COST**	**QTY**	**COST**
Major Hardware	1	2,407	1	1,709
Ancillary Hardware		0		5
Systems Engineering		580		463
Technical Engineering Services		100		112
Other Costs		252		1,129
Total		3,339		3,418

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	ultiple vendors managed by PAF				1	2,407
FY 08	CVN 78	VARIOUS	VARIOUS	APR-10		1	1,709

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 01	CVN 77	APR-08	16	18	JUN-05
FY 08	CVN 78	SEP-15	15	40	FEB-11

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

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P-35 EXHIBIT
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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **SPN-46, AUTOMATIC CARRIER LANDING SYSTEM**
PARM Code: **PMA 213**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

AN/SPN-46 (V)3 provides Precision Approach Landing System (PALS) used for non-clear weather aircraft landings on board carriers.

II. CURRENT FUNDING:

P-35 Category	**FY 2001**	
	QTY	**COST**
Major Hardware	1	6,166
Systems Engineering		1,095
Technical Engineering Services		212
Other Costs		1,908
Total		9,381

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	British Aerospace		JAN-03		1	6,166

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 01	CVN 77	APR-08	26	18	AUG-04

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **MK 2 MOD 1B, SHIPS SELF DEFENSE SYSTEM (SSDS)**
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:

P-35 Category	**FY 2001**	
	QTY	**COST**
Major Hardware	1	14,144
Spares		1,243
Technical Engineering Services		2,844
Systems Engineering		8,850
Other Costs		14,759
Total		41,840

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	RSC/LM		MAR-04		1	14,144

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 01	CVN 77	APR-08	19	24	SEP-04

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **COMMON C2 SYSTEM**
PARM Code: **PEO IWS 1FM4A**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The Common C2 system provides combat management capabilities for multi-mission requirements including Ship Protection against air, surface, and subsurface threats using both own-ship and remote data in support of capstone requirements.

II. CURRENT FUNDING:

P-35 Category	**FY 2008**	
	QTY	**COST**
Major Hardware	1	12,945
Spares		1,014
Tech Data Documentation		738
Technical Engineering Services		1,961
Systems Engineering		9,034
Other Costs		64,039
Total		89,731

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 08	CVN 78	TBD	TBD	JAN-10		1	12,945

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 08	CVN 78	SEP-15	TBD	24	TBD

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **AN/SRQ-6/MCS-21, SHIPS SIGNAL EXPLOITATION EQUIPMENT INCREMENT E (SSEE)**
PARM Code: **PMW 750**

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:

P-35 Category	FY 2001 QTY	FY 2001 COST	FY 2008 QTY	FY 2008 COST
Major Hardware	1	2,427	1	4,614
Spares		270		306
Ancillary Hardware		0		65
Tech Data Documentation		0		215
Systems Engineering		0		1,187
Technical Engineering Services		0		912
Other Costs		3,159		2,076
Total		5,856		9,375

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	ARGON		APR-01		1	2,427
FY 08	CVN 78	ARGON	VARIOUS	TBD		1	4,614

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
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:

None

NOTE:

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P-35 EXHIBIT
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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **SHIP SIGNAL EXPLOITATION SPACE (SSES/SI) COMMUNICATIONS**
PARM Code: **PMW 750**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

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:

P-35 Category	FY 2001 QTY	FY 2001 COST	FY 2008 QTY	FY 2008 COST
Major Hardware	1	1,423	1	1,189
Spares		40		0
Systems Engineering		0		778
Technical Engineering Services		0		2,046
Other Costs		1,812		97
Total		3,275		4,110

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	ultiple vendors managed by PAF				1	1,423
FY 08	CVN 78	Various	TBD	TBD		1	1,189

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 01	CVN 77	APR-08	0	18	OCT-06
FY 08	CVN 78	SEP-15	29	18	OCT-11

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

CVN 77 Installation deferred until PSA.

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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **AN/TPX-42A(V)14, CARRIER AIR TRAFFIC CONTROL CENTER - DIRECT ALTITUDE AND 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:

P-35 Category	**FY 2008**	
	QTY	**COST**
Major Hardware	1	3,007
Spares		228
Systems Engineering		1,800
Technical Engineering Services		42
Other Costs		662
Total		5,739

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 08	CVN 78	TBD	TBD	TBD		1	3,007

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 08	CVN 78	SEP-15	54	24	MAR-09

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

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(Dollars in Thousands)

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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **AN/SSN-6(V)X BLOCK 4, NAVIGATION SENSOR SYSTEM INTERFACE (NAVSSI)**
PARM Code: **PMW 750**

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:

P-35 Category	**FY 2008**	
	QTY	**COST**
Major Hardware	1	1,050
Spares		19
Ancillary Equipment		30
Systems Engineering		1,779
Technical Engineering Services		140
Other		1,320
Total		4,338

III. CONTRACT DATA:

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

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 08	CVN 78	SEP-15	40	18	NOV-10

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

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P-35 EXHIBIT
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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **TURNKEY RADIO COMMUNICATIONS SYSTEM (RCS)**
PARM Code: **PMW 750**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

Turnkey RCS 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:

P-35 Category	**FY 2001**		**FY 2008**	
	QTY	**COST**	**QTY**	**COST**
Major Hardware	1	2,000	1	1,228
Ancillary Hardware		0		2,200
Tech Data Documentation		0		1,020
Systems Engineering		6,131		7,139
Technical Engineering Services		6,978		5,382
Other Costs		2,867		2,023
Total		17,976		18,992

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	ultiple vendors managed by PAF				1	2,000
FY 08	CVN 78	VARIOUS	VARIOUS	TBD		1	1,228

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 01	CVN 77	APR-08	21	12	JUL-05
FY 08	CVN 78	SEP-15	28	0	MAY-13

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

Hardware includes only Non-2Z Cog items to support integration efforts.

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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **NAVY MULTI-BAND TERMINAL (NMT)**
PARM Code: **PMW 750**

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:

P-35 Category	**FY 2008**	
	QTY	**COST**
Major Hardware	2	5,260
Spares		708
Ancillary Equipment		140
Tech Data Documentation		55
Systems Engineering		170
Technical Engineering Services		240
Other		378
Total		6,951

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 08	CVN 78	TBD	TBD	TBD		2	2,630

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 08	CVN 78	SEP-15	28	18	SEP-12

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **AN/SPS-73(V)X LITE SYSTEM**
PARM Code: **IWS 2RI19**

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:

P-35 Category	**FY 2008**	
	QTY	**COST**
Major Hardware	2	815
Spares		50
Tech Data Documentation		1,075
Systems Engineering		300
Technical Engineering Services		405
Other		1,016
Total		3,661

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 08	CVN 78	Raytheon	TBD	TBD		2	408

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 08	CVN 78	SEP-15	18	18	SEP-12

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **LEGACY AIRCRAFT LAUNCHING SYSTEM**
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:

P-35 Category	**FY 2001**	
	QTY	**COST**
Major Hardware	1	20,669
Spares		95
Technical Data and Documentation		486
Tech Engineering Services		1,453
Other Costs		2,802
Systems Engineering		3,120
Total		28,625

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	ultiple vendors managed by PAF				1	20,669

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 01	CVN 77	APR-08	32	36	AUG-02

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **LEGACY AIRCRAFT RECOVERY SYSTEM**
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:

P-35 Category	**FY 2001**	
	QTY	**COST**
Major Hardware	1	9,536
Spares		229
Technical Engineering Services		2,403
Other Costs		308
Systems Engineering		1,124
Total		13,600

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	ultiple vendors managed by PAF				1	9,536

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 01	CVN 77	APR-08	30	36	OCT-02

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

SHIPBUILDING AND CONVERSION, NAVY
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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **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 C13 steam catapults include reduced weight and volume, greater launching flexibility for future aircraft, improved control, and reduced manning workload requirements.

II. CURRENT FUNDING:

P-35 Category	**FY 2008**	
	QTY	**COST**
Major Hardware	1	234,429
Spares		14,789
Tech Data Documentation		6,191
Systems Engineering		47,215
Technical Engineering Services		7,467
Other Costs		30,702
Total		340,793

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 08	CVN 78	General Atomics	TBD	JUL-09		1	234,429

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 08	CVN 78	SEP-15	52	TBD	TBD

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

None

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P-35 EXHIBIT
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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **DUAL BAND RADAR (DBR) (SPY-3 AND VSR)**
PARM 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:

P-35 Category	**FY 2008**	
	QTY	**COST**
Major Hardware	1	181,471
Spares		4,793
Systems Engineering		1,835
Technical Engineering Services		3,569
Other Costs		10,229
Total		201,897

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 08	CVN 78	Raytheon	TBD	Sep-08		1	181,471

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 08	CVN 78	SEP-15	40	44	Sep-08

V. COMPETITON/SECOND SOURCE INITIATIVES:

None

NOTE:

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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **ADVANCED AIRCRAFT RECOVERY SYSTEM (AAG)**
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:

P-35 Category	**FY 2008**	
	QTY	**COST**
Major Hardware	1	41,940
Spares		5,453
Ancillary Equipment		1,870
Tech Data Documentation		1,971
Systems Engineering		4,405
Technical Engineering Services		8,039
Other Costs		11,323
Total		75,001

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 08	CVN 78	General Atomics	TBD	TBD		1	41,940

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 08	CVN 78	SEP-15	54	18	SEP-09

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **AN/SPQ-9(B), TARGET ACQUISITION RADAR**
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:

P-35 Category	**FY 2001**	
	QTY	**COST**
Major Hardware	1	5,742
Spares		458
Technical Data and Documentation		1,300
Tech Engineering Services		988
Other		561
Systems Engineering		238
Ancillary Equipment		10
Total		9,297

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY01	CVN 77	NGNN/NORDEN	FFP	OCT-03		1	5,742

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY01	CVN 77	APR-08	21	24	JUL-04

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **AN/SPS-48E, 3-D AIR SURVEILLANCE 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:

P-35 Category	**FY 2001**	
	QTY	**COST**
Major Hardware	1	5,692
Ancillary Equipment		120
Technical Data and Documentation		150
Spares		400
System Engineering		910
Technical Engineering Services		950
Other Costs		3,891
Total		12,113

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	ITT/GIL	CPFF/FFP	FEB-00		1	5,692

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 01	CVN 77	APR-08	26	36	FEB-03

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **AN/SPS-49A(V)2, 2-D AIR SURVEILLANCE 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:

P-35 Category	**FY 2001**	
	QTY	**COST**
Major Hardware	1	6,114
Ancillary Equipment		0
Technical Data and Documentation		1,300
Spares		0
System Engineering		0
Technical Engineering Services		1,177
Other Costs		741
Total		9,332

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY-01	CVN 77	RAYTHEON	FFP	DEC-02		1	6,114

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY-01	CVN 77	APR-08	33	31	DEC-02

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **PHALANX BLOCK 1B MK 15 MOD 23, WEAPONS SYSTEM**
PARM Code: **IWS 3B**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

Phalanx is a high fire rate gun weapon system that automatically acquires, tracks and destroys Anti-Ship cruise missiles, Helos, Aircraft, and all types of Surface threats.

II. CURRENT FUNDING:

P-35 Category	**FY 2008**	
	QTY	**COST**
Major Hardware	3	15,306
Ancillary Equipment		194
Systems Engineering		1,221
Technical Engineering Services		1,054
Other Costs		526
Total		18,301

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 08	CVN 78	Raytheon	FFP	NOV-07		3	5,102

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 08	CVN 78	SEP-15	39	22	AUG-10

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **AN/TPX-42A, CARRIER AIR TRAFFIC CONTROL CENTER -DIRECT ALTITUDE AND 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:

P-35 Category	**FY 2001**	
	QTY	**COST**
Major Hardware	1	2,250
Spares		200
System Engineering		1,091
Technical Engineering Services		35
Other Costs		819
Total		4,395

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	multiple vendors	Various			1	2,250

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 01	CVN 77	APR-08	26	12	FEB-05

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **AN/SQQ-34, CARRIER-TACTICAL SUPPORT CENTER**
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:

P-35 Category	**FY 2001**		**FY 2008**	
	QTY	**COST**	**QTY**	**COST**
Major Hardware	1	2,274	1	2,995
Spares		225		125
Systems Engineering		500		1,930
Technical Engineering Services		2,141		460
Other Costs		6,877		1,621
Total		12,017		7,131

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	Team Keyport/LM		OCT-04		1	2,274
FY 08	CVN 78	TBD	TBD	TBD		1	2,995

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
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:

None

NOTE:

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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **IMPROVED FRESNEL LENS OPTICAL LANDING 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:

P-35 Category	**FY 2001**		**FY 2008**	
	QTY	**COST**	**QTY**	**COST**
Major Hardware	1	2,719	1	3,949
Spares		88		100
System Engineering		583		801
Technical Engineering Services		1,909		1,368
Other Costs		150		880
Total		5,449		7,098

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	Multiple Vendors				1	2,719
FY 08	CVN 78	TBD	TBD	TBD		1	3,950

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
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:

None

NOTE:

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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **AN/SQQ-34 MULTI-MODAL WORKSTATIONS (MMWS) UPGRADE**
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/oroperator(s); and reduced complexity of human-system interfaces (HSI). Utilizes touch screens, smart cards, and other HSI advances.

II. CURRENT FUNDING:

P-35 Category	**FY 2001**	
	QTY	**COST**
Major Hardware	1	1,350
Spares		250
System Engineering		1,900
Technical Data and Documentation		95
Other		6,455
Total		10,050

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	LM	FFP	SEP-04	FFP	1	1,350

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 01	CVN 77	APR-08	0	18	OCT-06

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

Installation deferred until PSA

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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **NATO SEA SPARROW MISSILE (NSSM)**
PARM Code: **PEO IWS 3D**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The Rearchitectured 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:

P-35 Category	**FY 2001**	
	QTY	**COST**
Major Hardware	1	15,083
Spares		1,124
System Engineering		2,642
Tech Engineering Services		1,971
Other Costs		7,460
ancillary equipment		150
Total		28,430

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	Raytheon	FFP	JAN-04	FFP	1	15,083

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 01	CVN 77	APR-08	21	18	JAN-05

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

None

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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **MK29 GUIDED MISSILE LAUNCHING SYSTEM (GMLS) EVOLVED SEA SPARROW MISSILE (ESSM)**
PARM Code: **PEO IWS 3**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The CVN 78 ESSM ORDALT is a follow-on installation of the system installed on the CVN 70 during PSA/SRA that provided an upgrade of the GMLS for ESSM compatibility. The Evolved SEASPARROW Missile (ESSM) ORDALT to the existing MK 29 Guided Missile Launching System (GMLS) will provide CVN 78 with a cost effective means of employing the initial ESSM capability.

II. CURRENT FUNDING:

P-35 Category	**FY 2008**	
	QTY	**COST**
Major Hardware	2	6,196
Spares		430
Ancillary Equipment		303
Tech Data Documentation		90
Systems Engineering		1,736
Technical Engineering Services		595
Other Costs		4,225
Total		13,575

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 08	CVN 78	Raytheon	FP	JUL-09		2	3,098

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 08	CVN 78	SEP-15	30	24	MAR-11

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **AN/SQQ-34 TACTIALLY INTEGRATED SENSORS (TIS) UPGRADE**
PARM Code: **PEO IWS-5B1**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

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:

P-35 Category	**FY 2001**	
	QTY	**COST**
Major Hardware	1	677
Systems Engineering		226
Technical Engineering Services		100
Total		6,373

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	Team Keyport/LM		OCT-04	CPFF	1	677

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 01	CVN 77	APR-08	0	9	JUL-07

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

CVN 77 Installation deferred until PSA

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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **AVIATION DATA MANAGEMENT AND CONTROL SYSTEM (ADMACS)**
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 signaling officer, etc. The CVN 78 version is ADMACS Block 3.

II. CURRENT FUNDING:

P-35 Category	**FY 2001**		**FY 2008**	
	QTY	**COST**	**QTY**	**COST**
Major Hardware	1	825	1	3,530
Tech Data Documentation		150		209
Systems Engineering		2,024		562
Technical Engineering Services		620		1,012
Other		75		840
Total		3,694		6,153

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	ultiple vendors managed by PAF	MUTIPLE FFP	Various		1	825
FY 08	CVN 78	TBD	TBD	TBD		1	3,530

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
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

NOTE:

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Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **INTEGRATED LAUNCH AND RECOVERY TELEVISION 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:

P-35 Category	**FY 2001**		**FY 2008**	
	QTY	**COST**	**QTY**	**COST**
Major Hardware	1	2,000	1	4,865
Systems Engineering		126		747
Technical Engineering Services		850		191
Other		20		196
Total		2,996		5,999

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	ultiple vendors managed by PAF				1	2,000
FY 08	CVN 78	VARIOUS	FP	NOV-10		1	4,865

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
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:

None

NOTE:

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

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

Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **AN/SPQ-14, ADVANCED SENSOR DISTRIBUTION SYSTEM (ASDS)**
PARM Code: **IWS 2RI**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

ASDS provides ship radar signal digital conversion and distribution to displays and consoles throughout the ship.

II. CURRENT FUNDING:

P-35 Category	**FY 2001**	
	QTY	**COST**
Major Hardware	1	1,276
Spares		15
Systems Engineering		336
Technical Engineering Services		845
Other		837
Total		3,309

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	Frontier Engineering Sys Inc		OCT-03		1	1,276

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 01	CVN 77	APR-08	19	12	SEP-05

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

NOTE:

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

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

Ship Type: **CARRIER REPLACEMENT PROGRAM**
Equipment Item: **MK 49 GUIDED MISSILE LAUNCHING SYSTEM (GMLS), P/O MK 31 ROLLING AIRFRAME MISSILE (RAM)**
PARM Code: **PEO IWS 3B**

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. The CVN 78 system provides refurbished MK 49 Guided Missile Launching Systems upgraded to MK 49 Mod 3.

II. CURRENT FUNDING:

P-35 Category	**FY 2001**		**FY 2008**	
	QTY	**COST**	**QTY**	**COST**
Major Hardware	2	7,333	2	6,816
Spares		130		121
Ancillary Equipment		0		1,591
Tech Data Documentation		0		30
Systems Engineering		2,350		1,897
Technical Engineering Services		140		332
Other Costs		3,134		3,548
Total		13,087		14,335

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 01	CVN 77	Raytheon		APR-00		2	3,667
FY 08	CVN 78	Raytheon	FP	JAN-08		2	3,408

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
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:

None

NOTE:

Exhibit P-10, Advance Procurement Requirements Analysis (Page 1 - Funding)				Date: **February-08**									
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number **BA #2 OTHER WARSHIPS**				P-1 Line Item Nomenclature **CARRIER REPLACEMENT PROGRAM**									
Weapon System **BLI 200100 CVN 79**				First System (BY5) Award Date **Dec-11**			First System (BY5) Completion Date **Sep-19**						
($ 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													
Plans (Detailed)	Up to 36						32.5	36.7	48.1				117.4
Nuc Prop Equip	30-96				52.8	123.5	945.2	706.4	93.8				1,921.8
Basic	30-60						236.5	58.4	318.0				612.9
HM&E								5.0	5.0				10.0
Total AP			0.0	0.0	52.8	123.5	1,214.2	806.6	465.0	0.0	0.0		2,662.0

Description:

Plans 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.

Nuclear Propulsion Equipment (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.

Hull, Mechanical, & Electrical (HM&E) funding is required for government furnished engineering services support.

Basic shipbuilder advance procurement funding is required for both procurement of the longest lead non-reactor plant propulsion and electric plant contractor furnished equipment and efforts beginning in FY10 necessary to support an efficient CVN 79 construction schedule.

Exhibit P-10, Advance Procurement Requirements Analysis (Page 2 - Budget Justification)								Date: **February-08**				
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number **BA #2 OTHER WARSHIPS**						Weapon System **CVN 79**		P-1 Line Item Nomenclature **CARRIER REPLACEMENT PROGRAM**				
(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	52.8		November-07	123.5		October-08	945.2
Basic	30-60		TBD								October-08	236.5
Total AP			TBD			52.8			123.5			1214.2

Note: CVN 79 AP is budgeted in FY2007 - FY2011 for a FY2012 contract award.

Exhibit P-10, Advance Procurement Funding

CLASSIFICATION: UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET (P-40) | FY2009 President's Budget | DATE: February 2008

APPROPRIATION/BUDGET ACTIVITY: Ship and Conversion, Navy/BA#2 OTHER WARSHIPS | P-1 ITEM NOMENCLATURE: Virginia Class Submarine | BLI: 201300

	PRIOR YEARS	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	TO COMPLETE	TOTAL PROGRAM
QUANTITY	8	1	1	1	1	2	2	2	12	30
End Cost	20140.2	2604.4	2641.1	2863.0	2778.1	5419.4	5181.6	5368.3	36518.7	83514.8
Less Advance Procurement	5691.7	645.9	667.3	756.0	710.5	1432.8	1421.0	1460.5	9994.1	22779.8
Less Transfer / CTC	1650.6									1650.6
Less EOQ	205.3	190.6	190.2		82.8	397.9	501.0	500.8	1780.0	3848.6
Full Funding	12592.6	1768.0	1783.6	2107.0	1984.7	3588.7	3259.5	3407.0	24744.5	55235.7
Plus Advance Procurement	6794.1	673.7	1281.7	719.8	1347.9	1439.0	1493.5	1549.7	7480.4	22779.9
Plus Transfer / CTC	1271.1	111.0	109.0							1491.1
Plus EOQ	586.1			596.8	619.4	266.4			1780.0	3848.6
Total Obligational Authority	21243.8	2552.7	3174.3	3423.6	3952.1	5294.1	4753.1	4956.7	34004.9	83355.4
Plus Outfitting and Post Delivery	166.3	85.5	82.2	90.6	73.9	72.4	76.9	80.6	1827.0	2555.6
Total	21410.2	2638.2	3256.5	3514.2	4026.0	5366.6	4830.0	5037.4	35831.9	85911.0
Unit Cost (Ave. End Cost)	2517.5	2604.4	2641.1	2863.0	2778.1	2709.7	2590.8	2684.2	3043.2	2783.8

NOTE: These VA Class Exhibits reflect a FY04-08 Multi-Year Procurement (MYP) strategy with EOQ in FY04-06, and 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 Tons
Draft	32'

Armament:
Torpedo Tubes
Vertical Launch Tubes

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

Production Status:	FY08	FY09
Multi Year Procurement Contract	SSN 783	SSN 784
Awarded (Month)	Jan-08	Dec-08
Months to Complete		
a) Award to Delivery	01/08 - 04/14	12/08 - 04/15
b) Construction Start to Delivery	02/08 - 04/14	12/08 - 04/15
Commissioning Date	May-14	May-15
Completion of Fitting Out	Apr-14	Apr-15
OWLD	Mar-15	Mar-16

DD Form 2454, JUL 88 | CLASSIFICATION: UNCLASSIFIED

APPROPRIATION: SHIPBUILDING AND CONVERSION, NAVY

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)

BUDGET ACTIVITY: 2 P-1 ITEM NOMENCLATURE: Virginia Class Submarine
OTHER WARSHIPS

SUBHEAD: 7230 / 7231 / 7232 / H230 / H232 / 8560

	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	QTY	TOTAL COST	QTY	TOTAL COST
PLAN COSTS	1	76,378	1	46,637	1	55,084	1	63,710	1	65,112	1	68,296	1	72,903	1	76,185
BASIC CONST/CONVERSION		1,373,887		1,444,972		1,484,626		1,533,056		1,575,661		1,743,622		1,710,329		1,900,345
TECHNOLOGY INSERTION		14,131		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		25,572		21,162		20,232		24,907		27,994		29,033		30,713		31,300
ORDNANCE		0		0		0		0		0		0		0		
ESCALATION		0		0		0		0		0		0		0		
TOTAL SHIP ESTIMATE		2,332,137		2,209,526		2,254,623		2,289,179		2,378,419		2,604,438		2,641,092		2,863,014
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		445,000				
LESS AP FY06												200,874		456,520		
LESS AP FY07														210,795		462,931
LESS AP FY08																293,043
LESS EOQ FY04								63,551		63,551		63,294		63,294		
LESS EOQ FY05										78,234		77,876		79,676		
LESS EOQ FY06												49,418		47,192		
LESS:FY07 CTC		28,000		22,000												
LESS:FY08 CTC		45,000		40,000		24,000										
LESS:FY09 PENDING CTC		21,000		0		60,000										
LESS:FY10 PENDING CTC						26,906		51,606								
NET P-1 LINE ITEM		1,571,259		1,468,664		1,511,857		1,573,501		1,614,770		1,767,976		1,783,615		2,107,040

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

Fiscal Year: 2008/2009 Ship Type: VIRGINIA CLASS

I.	Design Schedule:	Start/Issue	Complete/Response	Reissue Complete/Response
	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.	Classification of Cost Estimate	C		
III.	Basic Construction/Conversion	FY2008	FY2009	
	A. Award Date	Jan-08	Dec-08	
	B. Contract Type and Share Line	FPI	FPI	Multi Year Procurement with EOQ.
	C. Request for Proposals:			
	Start/Issue:	Jul-02	Feb-08	
	Complete/Response:	Sept-02	May-08	
IV.	Escalation			
	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.	Other Basic (Reserves/Miscellaneous)	Amount	Amount	
	Item	N/A	N/A	

SHIPBUILDING AND CONVERSION, NAVY
SHIP PRODUCTION SCHEDULE

EXHIBIT P-27
FY2009 President's Budget
February 2008
BLI: 201300

SHIP TYPE	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE	
SSN775	EB/NNS	99	Sep-98	Aug-98	Jun-06	
SSN776	EB/NNS	01	Sep-98	Oct-99	Dec-06	
SSN777	EB/NNS	02	Sep-98	Apr-01	Feb-08	
SSN778	EB/NNS	03	Aug-03	Oct-02	Apr-09	*
SSN779	EB/NNS	04	Jan-04	Mar-04	Apr-10	*
SSN780	EB/NNS	05	Jan-04	Feb-05	Apr-11	*
SSN781	EB/NNS	06	Jan-04	Feb-06	Apr-12	*
SSN782	EB/NNS	07	Jan-04	Feb-07	Apr-13	*
SSN783	EB/NNS	08	Jan-04	Feb-08	Apr-14	*
SSN784	TBD	09	Dec-08	Dec-08	TBD	
SSN785	TBD	10	Dec-08	TBD	TBD	
SSN786	TBD	11	Dec-08	TBD	TBD	
SSN787	TBD	11	Dec-08	TBD	TBD	
SSN788	TBD	12	Dec-08	TBD	TBD	
SSN789	TBD	12	Dec-08	TBD	TBD	
SSN790	TBD	13	Dec-08	TBD	TBD	
SSN791	TBD	13	Dec-08	TBD	TBD	

*Note: The Delivery Dates shown for the SSN778 - 783 reflect the Construction Contract Delivery Dates. The shipbuilder has formally transmitted and the Program Manager has concurred in the following revised dates:

SSN 778	9/29/2008
SSN 779	8/31/2009
SSN 780	7/31/2010
SSN 781	7/31/2011
SSN 782	4/30/2012
SSN 783	4/30/2013

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

Ship Type:
VIRGINIA CLASS

	FY 07		FY08		FY09	
	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
ELECTRONICS EQUIPMENT						
a. P-35 Items						
1. Sonar, Combat Control & Architecture	1	$93,812	1	$102,411	1	$104,991
2. ESM	1	$25,320	1	$25,824	1	$26,240
3. Photonics Masts	1	$16,302	1	$16,817	1	$16,733
4. UMMs	1	$11,477	1	$11,721	1	$10,553
Subtotal		$146,911		$156,773		$158,517
b. Major Items						
1. SRWS	1	$4,558	1	$4,672	1	$4,766
2. System Level Activities	1	$20,590	1	$20,974	1	$21,537
3. AN/BPS-16	1	$5,314	1	$5,416	1	$5,524
4. Navigation	1	$3,058	1	$3,135	1	$3,198
5. AN/UYQ-70	1	$12,256	1	$11,798	1	$12,034
6. ECS	1	$7,673	1	$7,832	1	$7,897
7. CWITT	1	$16,126	1	$15,805	1	$12,857
8. NPES SE&I	1	$9,670	1	$11,856	1	$15,087
Subtotal		$79,245		$81,488		$82,900
c. Other Electronics						
1. Misc Electronics		$426		$434		$668
Subtotal		$426		$434		$668
TOTAL ELECTRONICS		$226,582		$238,695		$242,085

P-35
ITEM: SONAR, COMBAT, CONTROL & ARCHITECTURE

EXHIBIT P-35
FY2009 President's Budget
February 2008
BLI: 201300

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.

Quantity of 1 per hull

II. CURRENT FUNDING:

SHIP:	FY07	FY08	FY09
MAJOR HARDWARE	$74,894	$77,393	$78,628
TECH ENGINEERING SERVICES	$4,267	$4,409	$4,394
OTHER COSTS	$14,651	$20,609	$21,969
TOTAL	$93,812	$102,411	$104,991

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE	CONTRACT TYPE	NEW / 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
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

SHIPBUILDING AND CONVERSION, NAVY
MAJOR SHIP COMPONENT FACT SHEET
P-35
ITEM: ELECTRONIC SUPPORT MEASURES SUBSYSTEM

EXHIBIT P-35
FY2009 President's Budget
February 2008
BLI: 201300

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.

Quantity of 1 per hull

II. CURRENT FUNDING:

SHIP:	FY07	FY08	FY09
MAJOR HARDWARE	$19,199	$19,582	$19,897
TECH ENGINEERING SERVICES	$1,077	$1,098	$1,116
OTHER COSTS	$5,044	$5,144	$5,227
TOTAL	$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
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
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

SHIPBUILDING AND CONVERSION, NAVY
MAJOR SHIP COMPONENT FACT SHEET

P-35 EXHIBIT P-35
ITEM: PHOTONICS MAST FY2009 President's Budget
February 2008
I. DESCRIPTION/CHARACTERISTICS/PURPOSE BLI: 201300

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:	FY07	FY08	FY09
MAJOR HARDWARE	$11,871	$12,241	$12,038
TECH ENGINEERING SERVICES	$547	$565	$580
OTHER COSTS	$3,884	$4,011	$4,115
TOTAL	$16,302	$16,817	$16,733

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE	CONTRACT TYPE	NEW / OPTION
07	SSN782	Kollmorgen	1 Shipset	$11,871	Sep-07	SS / FP/ CPFF	New
08	SSN783	Kollmorgen	1 Shipset	$12,241	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
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

SHIPBUILDING AND CONVERSION, NAVY
MAJOR SHIP COMPONENT FACT SHEET

P-35 EXHIBIT P-35
ITEM: UNIVERSAL MODULAR MAST FY2009 President's Budget
February 2008
I. DESCRIPTION/CHARACTERISTICS/PURPOSE BLI: 201300

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:	FY07	FY08	FY09
MAJOR HARDWARE	$9,404	$9,637	$8,427
TECH ENGINEERING SERVICES	$751	$755	$770
OTHER COSTS	$1,322	$1,329	$1,356
TOTAL	$11,477	$11,721	$10,553

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE	CONTRACT TYPE	NEW / OPTION
07	SSN782	Kollmorgen	1 Shipset	$9,404	May-07	SS / FP	New
08	SSN783	Kollmorgen	1 Shipset	$9,637	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
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

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

SHIPBUILDING AND CONVERSION, NAVY
MAJOR SHIP COMPONENT FACT SHEET

P-35
ITEM: PROPULSOR

EXHIBIT P-35
FY2009 President's Budget
February 2008
BLI: 201300

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

III. CONTRACT DATA:

PROGRAM				HARDWARE	CONTRACT	CONTRACT	NEW / 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
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												FY2009 President's Budget
(Page 1 - Funding)												February 2008
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number							P-1 Line Item Nomenclature					
1711 Shipbuilding and Conversion, Navy / BA 02 / BLI 201300			FY2009 President's Budget				VIRGINIA CLASS SUBMARINE					
Weapon System				First System (BY1) Award Date			First System (BY1) Completion Date					
VIRGINIA Class Submarines				Various			Various					
($ in Millions)												
BLI: 201300	PLT	When Req'd	Prior Years	FY07	FY08	FY09	FY10	FY11	FY12	FY13	To Complete	Total
NUCLEAR PROPULSION PLANT EQUIPMENT (1)	30-72	Various	4359.3	462.9	877.0	484.0	913.0	931.0	964.1	998.1	4355.0	14344.3
ELECTRONICS EQUIPMENT (2)	37-43	Various	113.6	13.8	14.4	14.9	32.0	31.2	31.9	32.7	166.8	451.3
NON-NUCLEAR PROPULSION PLANT EQUIPMENT			615.7	10.9	11.9	12.5	26.	27.1	28.2	29.4	175.	936.7
*Heat Exchanger	18	Various	17.7									17.7
Propulsor (3)	36	Various	134.6	10.9	11.9	12.5	26.0	27.1	28.2	29.4	175.0	455.6
*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	1073.4	186.1	378.4	208.4	376.9	449.7	469.3	489.6	2783.6	6415.4
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)			586.1			596.8	619.4	266.4			1780.0	3848.6
Total AP			7380.2	673.7	1281.7	1316.5	1967.4	1705.4	1493.5	1549.7	9260.4	26628.5

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

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, 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.

(2) **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 and associated pre cable kits 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) **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.

(5) **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.

(6) **Advance Construction** was required to ensure industrial base continuity at the shipbuilder in the gap year.

(7) **Other** is for VIRGINIA Class curriculum development.

(8) **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)								FY2009 President's Budget February 2008
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								
NUCLEAR PROPULSION PLANT EQUIPMENT (1)	30-72	1 Shipset	2 Shipsets	1st Qtr	877.0	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	378.4	1 Shipset	various	208.4
EOQ (5)		various			.	various	various	596.8
Total AP					1281.7			1316.5

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). In order to keep the CCSM out of the critical path to ship delivery and minimize the most risk to ship construction, selected electronics and associated pre cable kits 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 2009 President's Budget

DATE:
February 2008

APPROPRIATION/BUDGET ACTIVITY
SHIPBUILDING AND CONVERSION, NAVY/BA 2 Other Warships

P-1 LINE ITEM NOMENCLATURE
CVN REFUELING OVERHAULS
BLI: 2086 / SUBHEAD NO. 6218

(Dollars in Millions)	PRIOR YR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TO COMP	TOTAL PROG
QUANTITY	3	0	0	1	0	0	0	1	1	6
End Cost	8,675.6	0.0	0.0	3,815.6	0.0	0.0	0.0	4,327.7	4,768.0	21,586.90
Less Advance Procurement	2,886.3	0.0	0.0	431.7	0.0	0.0	0.0	1,038.7	1,162.1	5,518.80
Less Transfer	128.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	128.1
Less Subsequent Year FF	2,203.2	0.0	0.0	2,777.4	0.0	0.0	0.0	1,656.0	0.0	6,636.60
Plus Subsequent Year FF	0.0	950.5	0.0	0.0	1,557.9	1,219.5	0.0	0.0	1,656.0	5,383.90
Full Funding TOA	3,586.1	950.5	0.0	606.6	1,557.9	1,219.5	0.0	1,633.0	5,262.0	14,815.60
Plus Advance Procurement	2,044.7	116.6	295.3	21.4	127.7	365.6	689.9	370.3	625.9	4,657.40
Total Obligational Authority	5,630.8	1,067.1	295.3	628.0	1,685.7	1,585.1	689.9	2,003.3	5,887.8	19,473.00
Plus Outfitting / Plus Post Delivery	174.4	30.8	21.9	51.6	17.9	22.8	30.7	62.3	117.8	530.2
Total	5,805.2	1,097.9	317.2	679.6	1,703.6	1,607.9	720.6	2,065.6	6,005.6	20,003.30
Unit Cost (Ave. End Cost)	2,891.9	0.0	0.0	3,815.6	0.0	0.0	0.0	4,327.7	4,768.0	3,597.8

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.

Characteristics:		Production Status	FY 06	Armament:	Major Electronics:
Hull:		Contract Plans	05/01	CVN 70:	CVN 70:
Length overall	1092'	Award Planned (Month)	11/05	MK49 GMLS w/HAS	Cooperative Engagement Capability
Beam	134'	Months to Complete		AN/SPQ-9B Radar	C4ISR
Displacement	91,878 TONS	a) Award to Delivery	40	Tactical Support Center	Integrated Communication Network
Draft	38.7'	b) Construction Start to	40		Naval Warfare Strike Planning Center (NSWPC)
		Commissioning Date	N/A		Ship Self Defense System MK2
		Completion of Fitting Out	05/09		

CLASSIFICATION:
UNCLASSIFIED

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

BUDGET ACTIVITY: 2	**P-1 LINE ITEM NOMENCLATURE**	**SUBHEAD NO. 6218 BLI: 2086**
Other Warships	**CVN REFUELING OVERHAULS**	

	FY 2006		**FY 2009**	
ELEMENT OF COST	**QTY**	**COST**	**QTY**	**COST**
PLAN COSTS	1	44,560	1	40,018
BASIC CONST/CONVERSION		2,627,350		3,213,480
ELECTRONICS		174,536		217,310
PROPULSION EQUIPMENT		96,203		114,023
HM&E		42,052		60,664
OTHER COST		68,324		73,421
ORDNANCE		66,300		96,700
TOTAL SHIP ESTIMATE		3,119,325		3,815,616
LESS:				
FY-01 Advance Procurement		24,770		
FY-02 Advance Procurement		73,349		
FY-03 Advance Procurement		217,271		
FY-04 Advance Procurement		214,403		
FY-05 Advance Procurement		331,460		
FY 06 Advance Procurement				19,744
FY-07 Advance Procurement				116,645
FY- 08 Advance Procurement				295,263
FY-07 Subsequent Full Funding		950,466		
FY-10 Subsequent Full Funding				1,557,947
FY-11 Subsequent Full Funding				1,219,456
NET P-1 LINE ITEM:		1,307,606		606,561

SHIPBUILDING AND CONVERSION, NAVY
SHIP PRODUCTION SCHEDULE

SHIP TYPE	HULL NUMBER	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-2009	SEP-09	SEP-09	DEC-12
CVN 72	RCOH	NGNN	FY-2013	FEB-13	FEB-13	MAY-16

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type: CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)	FY 2006		FY 2009	
	QTY	COST	QTY	COST
HM&E				
a. P-35 Items				
JP-5 ELECTRIC VALVE OPERATOR ASSEMBLY	0	4,999	0	3,292
CONVERT R114 AC PLANTS	0	4,369	0	0
02N2 SYSTEM	0	4,300	0	3,432
AIRCRAFT ELECTRICAL SERVICING SYSTEM	0	0	0	12,297
TG AUTOMATIC VOLTAGE REGULATOR	0	0	0	3,600
Subtotal		13,668		22,621
b. Major Items				
LOW PRESSURE AIR PLANT (LPAP)	0	2,300	0	0
AC PLANT	0	1,143	0	0
AIRCRAFT ELECTRICAL SERVICING SYSTEM	0	1,114	0	0
CIRCUIT 27 TV	0	1,068	0	1,162
JP-5 ELECTRIC VALVE OPERATOR UPDGADE	0	0	0	1,811
CANNED LUBE OIL PUMP (CLOP)	0	0	0	1,614
JP-5 TRANSFER FILTER INSTALLATION	0	0	0	1,572
LESLIE PILOT REPLACEMENT	0	0	0	1,302
Subtotal		5,625		7,461
c. Other HM&E				
MISCELLANEOUS HM&E, ENGINEERING, TEST & CERTIFICATIONS	0	22,759	0	30,582
Subtotal		22,759		30,582
Total HM&E		42,052		60,664

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type: CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)	FY 2006		FY 2009	
	QTY	COST	QTY	COST
ELECTRONICS				
a. P-35 Items				
C4ISR	0	60,626	0	66,549
INTEGRATED COMMUNICATION NETWORK (ICAN / DDCN & IVCN)	0	37,977	0	46,629
SSDS MK2 (FORMERLY ICDS)	0	36,658	0	38,374
NAVAL STRIKE WARFARE PLANNING CENTER (NSWPC - FORMERLY CVIC)	0	12,603	0	10,021
COOPERATIVE ENGAGEMENT CAPABILITY (CEC - AN/USG-2)	0	6,916	0	6,586
IFF INTERROGATOR SET (AN/UPX-29)	0	4,282	0	7,406
HYDRA	0	4,475	0	0
AN/SPN46 OVERHAUL/UPGRADE	0	3,606	0	6,792
COMBAT SYSTEM INTEGRATION	0	0	0	13,027
AN/TPX-42(V)14 UPGRADE	0	0	0	4,490
Subtotal		167,143		199,874
b. Major Items				
AN/TPX-42 (V)14 UPGRADE	0	1,599	0	0
AN/SPN-41	0	1,043	0	1,313
READY ROOM MODIFICATION	0	0	0	2,988
BATTLE FORCE TACTICAL TRAINER (BFTT)	0	0	0	2,402
AN/SPN-43C	0	0	0	2,023
Subtotal		2,642		8,726
c. Other ELECTRONICS				
MISCELLANEOUS ELECTRONICS, TEST & CERTIFICATIONS	0	4,751	0	8,710
Subtotal		4,751		8,710
Total ELECTRONICS		174,536		217,310

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type: CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)	FY 2006		FY 2009	
	QTY	COST	QTY	COST
ORDNANCE				
a. P-35 Items				
AVIATION EQUIPMENT & SUPPORT	0	21,692	0	31,203
TACTICAL SUPPORT CENTER (CV-TSC)	0	10,113	0	0
MK-49 GLMS W / HAS (FORMERLY RAM)	0	9,753	0	0
AN/SPQ-9B RADAR	0	7,988	0	8,029
AN/SPS-49(V)5 UPGRADE/REPAIR	0	5,475	0	7,630
NATO SEASPARROW MISSILE SYSTEM	0	0	0	29,633
AN/SPS-48G (V1) ROAR	0	0	0	9,995
ADVANCED SENSOR DISTRIBUTION SYSTEM (ASDS)	0	0	0	3,036
Subtotal		55,021		89,526
b. Major Items				
ADVANCED SENSOR DISTRIBUTION SYSTEM (ASDS)	0	2,913	0	0
AN/SPS-48E RADAR SET UPGRADES	0	2,386	0	0
INTEGRATED WARFARE COMMANDER'S CELL (IWCC)	0	1,105	0	0
AN/SPS-73 (V12) SURFACE NAVIGATION RADAR	0	0	0	1,917
Subtotal		6,404		1,917
c. Other ORDNANCE				
MISCELLANEOUS ORDNANCE, TEST & CERTIFICATIONS	0	4,875	0	5,257
Subtotal		4,875		5,257
Total ORDNANCE		66,300		96,700

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

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

Ship Type: **CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)**
Equipment Item: **AN/TPX-42(V)14 UPGRADE**
PARM Code: **PMA 2133**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

Carrier Air Traffic Control Center Direct Altitude and Identity Readout System.

II. CURRENT FUNDING:

P-35 Category	**FY 2009**	
	QTY	**COST**
Major Hardware	0	3,217
Software		152
Systems Engineering		282
ILS		265
Systems Test & Evaluation		243
Technical Engineering Services / Ship Installation		90
Initial Spares and Repair Parts		171
Program Management		54
Other Costs		16
Total		4,490

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY-09	CVN 71 RCOH	NAWCAD	IDIQS	NOV-07			3,217

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY-09	CVN 71 RCOH	DEC-12	36	24	DEC-07

V. COMPETITON/SECOND SOURCE INITIATIVES:

NOTE:

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

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

Ship Type: **CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)**
Equipment Item: **ADVANCED SENSOR DISTRIBUTION SYSTEM (ASDS)**
PARM Code: **IWS 2RI**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

ASDS provides the distribution of RADAR sensor data and video to RADAR displays on board the Ship.

II. CURRENT FUNDING:

P-35 Category	FY 2009 QTY	FY 2009 COST
Major Hardware	1	1,242
Software		146
Systems Engineering		609
ILS		174
Systems Test and Evaluation		122
Training		30
Data		24
Technical Engineering Services / Ship Installation		654
Initial Spares and Repair Parts		35
Total		3,036

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY-09	CVN 71 RCOH	FRONTIER ELECTRONIC SYS.	IDIQ	OCT-09		1	1,242

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY-09	CVN 71 RCOH	DEC-12	24	12	DEC-09

V. COMPETITON/SECOND SOURCE INITIATIVES:

NOTE:

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

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

Ship Type: **CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)**
Equipment Item: **TG AUTOMATIC VOLTAGE REGULATOR**
PARM Code: **NAVSSES**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

Digital, variable frequency voltage regulator (replacement for analog static voltage regulator for power generators - SSTG and CTG).

II. CURRENT FUNDING:

P-35 Category	**FY 2009**	
	QTY	**COST**
Major Hardware	1	3,600
Total		3,600

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY-09	CVN 71 RCOH	/MAN ELECTRONIC SYSTEMS		MAY-04	NEW OPTION PENDING	1	3,600

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY-09	CVN 71 RCOH	DEC-12	39	18	MAR-08

V. COMPETITON/SECOND SOURCE INITIATIVES:

NOTE:

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

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

Ship Type: **CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)**
Equipment Item: **AIRCRAFT ELECTRICAL SERVICING SYSTEM**
PARM Code: **NSWCCD-SSES 9344**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The Joint Strike Fighter (JSF) requires 270VDC electrical power for maintenance and pre-flight operations. This type of power is not currently available on CVN-68 class aircraft carriers.

This SCD will equip CVN 68 class ships with 270VDC Aircraft Electrical Servicing System Power. In addition the obsolete components now part of the AESS will be replaced with new equipment.

This upgrade will allow the CVN 68 class to support JSF and Legacy aircraft with new equipment without excessive space and weight requirements.

II. CURRENT FUNDING:

P-35 Category	FY 2009 QTY	FY 2009 COST
Major Hardware	0	6,904
Systems Engineering		385
Data		290
Technical Engineering Services / Ship Insallation		4,568
Program Management		150
Total		12,297

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY-09	CVN 71 RCOH	VARIOUS	FP	AUG-09		52	120

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY-09	CVN 71 RCOH	DEC-12	30	9	SEP-09

V. COMPETITON/SECOND SOURCE INITIATIVES:

NONE

NOTE:

SHIPBUILDING AND CONVERSION, NAVY
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P-35 EXHIBIT
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February 2008

Ship Type: **CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)**
Equipment Item: **JP-5 ELECTRIC VALVE OPERATOR ASSEMBLY**
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:

P-35 Category	FY 2006 QTY	FY 2006 COST	FY 2009 QTY	FY 2009 COST
Major Hardware	0	3,937	0	2,510
Spares		55		0
Engr/ILS/Mgmt Spt		50		0
Technical Support Services		807		0
Schedule B Services		150		0
Systems Engineering		0		564
ILS		0		46
Systems Test & Evaluation		0		80
Technical Engineering Services / Ship Installation		0		6
Intial Spares and Repair Parts		0		86
Total		4,999		3,292

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY-06	CVN 70 RCOH	TARGET ROCK	FFP	MAR-05	OPTION	1 SHIPSET	3,937
FY-09	CVN 71 RCOH	TARGET ROCK	FFP	AUG-03		126	19

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY-06	CVN 70 RCOH	MAR-09	40	8	MAR-05
FY-09	CVN 71 RCOH	DEC-12	34	9	MAY-09

V. COMPETITON/SECOND SOURCE INITIATIVES:

NONE

NOTE:

SHIPBUILDING AND CONVERSION, NAVY
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P-35 EXHIBIT
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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:

P-35 Category	**FY 2006**		**FY 2009**	
	QTY	**COST**	**QTY**	**COST**
Major Hardware	0	3,592	0	0
Spares		151		0
Technical Engineering Services		626		0
Total		4,369		0

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY-06	CVN 70 RCOH	YORK INTERNATIONAL	FFP	FEB-03	OPTION	10	359

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY-06	CVN 70 RCOH	MAR-09	38	14	NOV-04

V. COMPETITON/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.

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(Dollars in Thousands)

P-35 EXHIBIT
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Ship Type: **CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)**
Equipment Item: **02N2 SYSTEM**
PARM Code: **NSWC CARDEROCK (SSES)**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

Replace one Cryogenic O2N2 plant with Gaseous Membrane Nitrogen Generator & Vacuum Swing Absorber 02 generator

II. CURRENT FUNDING:

P-35 Category	FY 2006 QTY	FY 2006 COST	FY 2009 QTY	FY 2009 COST
Major Hardware	0	1,850	0	2,140
Spares		300		0
Engr/ILS/Mgmt Spt		443		0
Technical Support Services		1,707		0
System Engineering		0		329
ILS		0		145
System T & E		0		65
Data		0		105
Technical Engineering Services / Ship Installation		0		195
Initial Spares and Repair Parts		0		400
Program Management		0		53
Total		4,300		3,432

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY 06	CVN 70 RCOH	PACIFIC CONSOLIDATED SYS	FFP	MAR-05	NEW	1	1,850
FY-09	CVN 71 RCOH	VARIOUS	FFP	NOV-07	SEE NOTE	1	2,140

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY 06	CVN 70 RCOH	MAR-09	27	18	JUN-05
FY-09	CVN 71 RCOH	DEC-12	36	24	DEC-07

V. COMPETITON/SECOND SOURCE INITIATIVES:

NONE

NOTE:

NSWCCD will exercise Options on current contracts with PCI & RIX for VSA & GNG procurements. A new contract will be required to procure the N2 Storage Flasks.

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

P-35 EXHIBIT
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Ship Type: **CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)**
Equipment Item: **C4ISR**
PARM Code: **SPAWAR PMW 750**

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:

P-35 Category	FY 2006 QTY	FY 2006 COST	FY 2009 QTY	FY 2009 COST
Major Hardware	0	20,608	0	30,675
Spares		961		0
Engr/ILS/Mgmt Spt		39,057		0
Software		0		1,560
Systems Engineering		0		12,961
ILS		0		950
Systems Test & Evaluation		0		2,472
Training		0		311
Data		0		1,508
Technical Engineering Services / Ship Installation		0		13,590
Initial Spares and Repair Parts		0		1,184
Program Management		0		419
Other Cost		0		919
Total		60,626		66,549

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY-06	CVN 70 RCOH	VARIOUS	VARIOUS	VARIOUS	VARIOUS	1	VAR
FY-09	CVN 71 RCOH	VARIOUS	VARIOUS	VARIOUS	VARIOUS	1	0

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY-06	CVN 70 RCOH	MAR-09	VARIOUS	VARIOUS	
FY-09	CVN 71 RCOH	DEC-12	VARIOUS	VARIOUS	

V. COMPETITON/SECOND SOURCE INITIATIVES:

NONE

NOTE:

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P-35 EXHIBIT
FY 2009 President's Budget
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Ship Type: **CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)**
Equipment Item: **INTEGRATED COMMUNICATION NETWORK (ICAN / DDCN & IVCN)**
PARM Code: **NAVSEA 05Z5, NAVSEA 062R6**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The ICAN (Integrated Communication and Audio Network) System consisting of four (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 auxilary 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) sytem. The NAVCRIT Distribution consists of three backbone switches and eight I/0 contollers to convert digital NAV data for analog outputs. It will use the FOCP to the maximum extent for connectivity.

SCS: Ship Contol 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:

P-35 Category	FY 2006 QTY	FY 2006 COST	FY 2009 QTY	FY 2009 COST
Major Hardware	0	17,866	0	20,727
Engr/ILS/Mgmt Spt		4,515		0
Software		15,596		2,240
Systems Engineering		0		8,033
ILS		0		3,618
Systems Test & Evaluation		0		5,475
Training		0		458
Data		0		1,208
Technical Engineering Services / Ship Installation		0		3,676
Initial Spares and Repair Parts		0		1,170
Program Management		0		24
Total		37,977		46,629

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY-06	CVN 70 RCOH	VARIOUS	VARIOUS	VARIOUS	NEW	1 SHIPSET	17,866
FY-09	CVN 71 RCOH	VARIOUS	VARIOUS	VARIOUS		1 SHIPSET	20,727

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY-06	CVN 70 RCOH	MAR-09	27	18	JUN-05
FY-09	CVN 71 RCOH	DEC-12	26	24	OCT-08

V. COMPETITON/SECOND SOURCE INITIATIVES:

NONE

NOTE:

SHIPBUILDING AND CONVERSION, NAVY
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(Dollars in Thousands)

P-35 EXHIBIT
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Ship Type: **CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)**
Equipment Item: **SSDS MK2 (FORMERLY 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:

P-35 Category	FY 2006 QTY	FY 2006 COST	FY 2009 QTY	FY 2009 COST
Major Hardware	0	12,054	0	10,480
Spares		1,269		0
Engr/ILS/Mgmt Spt		440		0
Technical Support Services		22,895		0
Software		0		12,461
Systems Engineering		0		6,564
ILS		0		1,523
Systems Test & Evaluation		0		649
Training		0		398
Data		0		1,205
Technical Engineering Services / Ship Installation		0		2,037
Initial Spares and Repair Parts		0		745
Program Management		0		2,312
Total		36,658		38,374

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY-06	CVN 70 RCOH	RAYTHEON/LOCKHEED MARTI	CPAF/FFP	JAN-04	OPTION	1	12,054
FY-09	CVN 71 RCOH	RAYTHEON/LOCKHEED MARTI	CPFF/FFP	SEP-08		1	10,480

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY-06	CVN 70 RCOH	MAR-09	24	14	JAN-06
FY-09	CVN 71 RCOH	DEC-12	24	26	OCT-08

V. COMPETITON/SECOND SOURCE INITIATIVES:

NONE

NOTE:

CVN 71 RCOH FY 10 is moving to the "Open Architecture" SSDS Suite.

SHIPBUILDING AND CONVERSION, NAVY
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(Dollars in Thousands)

P-35 EXHIBIT
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Ship Type: **CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)**
Equipment Item: **NAVAL STRIKE WARFARE PLANNING CENTER (NSWPC - FORMERLY CVIC)**
PARM Code: **NAVAIR PMA281**

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:

P-35 Category	FY 2006 QTY	FY 2006 COST	FY 2009 QTY	FY 2009 COST
Major Hardware	0	1,479	0	719
Software		2,325		0
System Engineering		5,275		7,132
ILS		0		149
System T & E		1,580		941
Data		455		0
Technical Engineering Services / Ship Installation		1,489		1,062
Program Management		0		18
Total		12,603		10,021

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY-06	CVN 70 RCOH	VARIOUS	FFP	VARIOUS	OPTION	1	1,479
FY-09	CVN 71 RCOH	VARIOUS	FFP CPFF	JAN-10	OPTION	1	719

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY-06	CVN 70 RCOH	MAR-09	20	18	JAN-06
FY-09	CVN 71 RCOH	DEC-12	18	12	JUN-10

V. COMPETITON/SECOND SOURCE INITIATIVES:

NONE

NOTE:

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P-35 EXHIBIT
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Ship Type: **CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)**
Equipment Item: **COOPERATIVE ENGAGEMENT CAPABILITY (CEC - AN/USG-2)**
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 quaility 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 engagment 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:

P-35 Category	FY 2006 QTY	FY 2006 COST	FY 2009 QTY	FY 2009 COST
Major Hardware	0	5,571	0	4,500
Spares		294		0
Engr/ILS/Mgmt Spt		184		0
Software		867		0
Systems Engineering		0		841
Systems Test & Evaluation		0		50
Technical Engineering Services / Ship Installation		0		232
Intial Spares and Repair Parts		0		450
Program Management		0		146
Other Cost		0		367
Total		6,916		6,586

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY-06	CVN 70 RCOH	RAYTHEON	CPIF	DEC-03	NEW	1	5,571
FY-09	CVN 71 RCOH	TBD	TBD	JUL-08	NEW	1	4,500

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY-06	CVN 70 RCOH	MAR-09	25	18	AUG-05
FY-09	CVN 71 RCOH	DEC-12	32	18	OCT-08

V. COMPETITON/SECOND SOURCE INITIATIVES:

NONE

NOTE:

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Ship Type: **CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)**
Equipment Item: **IFF INTERROGATOR SET (AN/UPX-29)**
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 ownership position and identification.

II. CURRENT FUNDING:

P-35 Category	FY 2006 QTY	FY 2006 COST	FY 2009 QTY	FY 2009 COST
Major Hardware	0	3,214	0	6,235
Spares		84		0
Engr/ILS/Mgmt Spt		459		0
Technical Support Services		525		0
Software		0		170
Systems Engineering		0		706
ILS		0		150
Technical Engineering Services/ Ship Installation		0		30
Initial Spares and Repair Parts		0		45
Program Management		0		70
Total		4,282		7,406

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY-06	CVN 70 RCOH	LITTON & BAE	FFP	VAR	NEW	1	3,214
FY-09	CVN 71 RCOH	LITTON & bAE	SS/FP	DEC-07	NEW	1	6,099

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY-06	CVN 70 RCOH	MAR-09	26	22	MAR-05
FY-09	CVN 71 RCOH	DEC-12	29	30	JAN-08

V. COMPETITON/SECOND SOURCE INITIATIVES:

NONE

NOTE:

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

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

Hierarchial 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:

P-35 Category	FY 2006 QTY	FY 2006 COST	FY 2009 QTY	FY 2009 COST
Major Hardware	0	3,168	0	0
Spares		50		0
Engr/ILS/Mgmt Spt		1,257		0
Total		4,475		0

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY-06	CVN 70 RCOH	M/A-COM	FFP	MAR-05	NEW	1	3,168

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY-06	CVN 70 RCOH	MAR-09	40	6	MAY-05

V. COMPETITON/SECOND SOURCE INITIATIVES:

NONE

NOTE:

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Ship Type: **CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)**
Equipment Item: **COMBAT SYSTEM INTEGRATION**
PARM Code: **IWS 1**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

Ship's Combat System Integration - Generation and review efforts for WSIDs, IRS/IDDs, and Combat System Safety efforts to satisfy recent WSERB direction; Site visits; ICT for Test Configuration Control Board to track the test configuration of H/W & S/W. SCD and/or ECP review and adjudication; Documents advance to Test Objective scenerios and support services asset planning) . Test Plan in FY08, Test Objectives FY09, Update Test Plan and Objectives FY10, Test Procedures detailing every function (FY11); Shipboard CS Interoperability & Integration Verification - ISEA CSE - RCOH Consolidated Software Delivery (CSD); Support the conduct of testing and Sea Trials to augmenting CS Test coord and conduct support.

II. CURRENT FUNDING:

P-35 Category	**FY 2009**	
	QTY	**COST**
Ship Design Integration / Safety	0	3,245
CS Documentation		1,465
CS Configuration Management		1,708
CS Test Requirements, Procedures & Plans		855
CS Test Coordination and Conduct Support		886
On-site Tech Residents		399
CS Ship Qualification Test (CSSQT) / (CTT)		500
CSS		243
Familiarization		416
Combat System Integration Testing (CSIT)		3,310
Total		13,027

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY-09	CVN 71 RCOH	PEO IWS	n/a	n/a			0

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY-09	CVN 71 RCOH	DEC-12			DEC-12

V. COMPETITON/SECOND SOURCE INITIATIVES:

NOTE:

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Ship Type: **CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)**
Equipment Item: **AN/SPN46 OVERHAUL/UPGRADE**
PARM Code: **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:

P-35 Category	FY 2006 QTY	FY 2006 COST	FY 2009 QTY	FY 2009 COST
Major Hardware	0	1,945	0	4,532
Technical Engineering Services		1,661		0
Systems Engineering		0		601
ILS		0		226
Technical Engineering Services / Ship Installation		0		1,305
Program Management		0		99
Other Support		0		29
Total		3,606		6,792

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY-06	CVN 70 RCOH	NAWCAD	PO	OCT-05		1	1,945
FY-09	CVN 71 RCOH	TBD	TBD	NOV-07	NEW	1	4,532

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY-06	CVN 70 RCOH	MAR-09	19	9	NOV-06
FY-09	CVN 71 RCOH	DEC-12	24	36	DEC-07

V. COMPETITON/SECOND SOURCE INITIATIVES:

NONE

NOTE:

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Ship Type: **CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)**
Equipment Item: **AVIATION EQUIPMENT & 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 compatability, aircraft spotting, aviation servicing facilities, visual, and marking and lighting.

II. CURRENT FUNDING:

P-35 Category	FY 2006 QTY	FY 2006 COST	FY 2009 QTY	FY 2009 COST
Major Hardware	0	11,792	0	20,049
Engr/ILS/Mgmt Spt		9,900		0
Software		0		752
Systems Engineering		0		3,167
ILS		0		397
Systems Test & Evaluation		0		172
Training		0		117
Data		0		362
Technical Engineering Services / Ship Installation		0		5,382
Initial Spares and Repair Parts		0		31
Other Costs		0		774
Total		21,692		31,203

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY-06	CVN 70 RCOH	VARIOUS	VARIOUS	VARIOUS	VARIOUS	1	VAR
FY-09	CVN 71 RCOH	VARIOUS	VARIOUS	VARIOUS	VARIOUS	1	20,049

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY-06	CVN 70 RCOH	MAR-09	0	0	
FY-09	CVN 71 RCOH	DEC-12	21	39	DEC-07

V. COMPETITON/SECOND SOURCE INITIATIVES:

NONE

NOTE:

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

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

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

P-35 Category	FY 2006 QTY	FY 2006 COST	FY 2009 QTY	FY 2009 COST
Major Hardware	0	2,180	0	0
Spares		150		0
Engineering Support		7,783		0
Total		10,113		0

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY-06	CVN 70 RCOH	NUWC KEYPORT	CPFF	OCT-04	NEW	1	2,180

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY-06	CVN 70 RCOH	MAR-09	22	18	NOV-05

V. COMPETITON/SECOND SOURCE INITIATIVES:

NONE

NOTE:

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

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

Ship Type: **CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)**
Equipment Item: **MK-49 GLMS W / HAS (FORMERLY RAM)**
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:

P-35 Category	FY 2006 QTY	FY 2006 COST	FY 2009 QTY	FY 2009 COST
Major Hardware	0	3,605	0	0
Spares		201		0
Management Support		337		0
Engineering Support		5,610		0
Total		9,753		0

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY-06	CVN 70 RCOH	RAYTHEON	FFP	NOV-03	NEW	2	1,803

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY-06	CVN 70 RCOH	MAR-09	17	24	OCT-05

V. COMPETITON/SECOND SOURCE INITIATIVES:

NONE

NOTE:

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

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

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

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:

P-35 Category	FY 2006 QTY	FY 2006 COST	FY 2009 QTY	FY 2009 COST
Major Hardware	0	6,040	0	6,320
Spares		421		0
Engr/ILS/Mgmt Spt		922		0
Technical Support Services		605		0
Software		0		118
Systems Engineering		0		188
ILS		0		232
Systems Test & Evaluation		0		139
Data		0		115
Technical Engineering Services / Ship Installation		0		448
Initial Spares and Repair Parts		0		350
Program Management		0		119
Total		7,988		8,029

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY-06	CVN 70 RCOH	ORTHROP GRUMMAN/NORDE	CPFF	APR-04	NEW	1	6,040
FY-09	CVN 71 RCOH	NORTHROP GRUMMAN ES	FFP	AUG-08		1	6,320

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY-06	CVN 70 RCOH	MAR-09	21	24	JUN-05
FY-09	CVN 71 RCOH	DEC-12	24	24	DEC-08

V. COMPETITON/SECOND SOURCE INITIATIVES:

NONE

NOTE:

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

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

Ship Type: **CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)**
Equipment Item: **AN/SPS-49(V)5 UPGRADE/REPAIR**
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 alititude), reliability, and maintainability.

II. CURRENT FUNDING:

P-35 Category	FY 2006 QTY	FY 2006 COST	FY 2009 QTY	FY 2009 COST
Major Hardware	0	3,700	0	5,734
Engr/ILS/Mgmt Spt		1,185		0
Technical Support Services		590		0
Systems Engineering		0		631
ILS		0		240
Data		0		180
Technical Engineering Services / Ship Installation		0		95
Initial Spares and Repair Parts		0		500
Program Management		0		250
Total		5,475		7,630

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY-06	CVN 70 RCOH	RAYTHEON	FFP	DEC-02	NEW	1	3,700
FY-09	CVN 71 RCOH	NSWC Crane	n/a	MAY-08		1	5,734

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY-06	CVN 70 RCOH	MAR-09	22	24	MAY-05
FY-09	CVN 71 RCOH	DEC-12	24	30	JUN-08

V. COMPETITON/SECOND SOURCE INITIATIVES:

NONE

NOTE:

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

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

Ship Type: **CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)**
Equipment Item: **NATO SEASPARROW MISSILE SYSTEM**
PARM Code: **PEO IWS 3D**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The NSSMS Mk 57 Mod 13 is a COTS upgrade of the legacy systems originally installed on CVN 71, consisting of new procurement computers/displays, refurb/overhaul of legacy equipment (Radars/launchers), and an upgrade to the GMLS for ESSM compatibility. The NSSMS Is a medium range self defense missile system capable of defeating near/mid-term air/surface threats.

II. CURRENT FUNDING:

P-35 Category	FY 2009 QTY	FY 2009 COST
Major Hardware	0	24,865
Software		555
Systems Engineering		1,243
ILS		250
Data		166
Technical Engineering Services / Ship Installation		1,405
Initial Spares and Repair Parts		1,149
Total		29,633

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY-09	CVN 71 RCOH	RAYTHEON	FFP	JAN-08		1	20,907

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY-09	CVN 71 RCOH	DEC-12	24	24	DEC-08

V. COMPETITON/SECOND SOURCE INITIATIVES:

n/a

NOTE:

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

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

Ship Type: **CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)**
Equipment Item: **AN/SPS-48G (V1) ROAR**
PARM Code: **PEO IWS 2RI11**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

Long range three dimensional (3D) radar used to search, detect and provide space-stabilized, three-coordinate (range, bearing, height) data. Funding provides for procurement of an Antenna and ROAR Kit (SCD 2498) for the AN/SPS-48G(V)1 upgrade.

II. CURRENT FUNDING:

P-35 Category	**FY 2009**	
	QTY	**COST**
Major Hardware	0	7,700
Software		300
Systems Engineering		800
ILS		100
Systems Test & Evaluation		10
Data		100
Technical Engineering Services / Ship Installation		300
Initial Spares and Repair Parts		485
Program Management		200
Total		9,995

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY-09	CVN 71 RCOH	ITT GILFILLAN	CPFF / FFP	SEP-08		1	6,200

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY-09	CVN 71 RCOH	DEC-12	24	24	DEC-08

V. COMPETITON/SECOND SOURCE INITIATIVES:

None - Sole Source

NOTE:

Exhibit P-10, Advance Procurement Requirements Analysis (Page 1 - Funding)							Date: **February 2008**					
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number **BA #2 OTHER WARSHIPS**							P-1 Line Item Nomenclature **CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)**					
Weapon System **BLI: 208600** **CVN 71 RCOH**			First System (BY3) Award Date **Sep 09**			First System (BY6) Completion Date **Dec 12**						
($ 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)			4.896	9.623	10.000							24.5
Basic			0.000	66.826	197.586							264.4
Other			2.713	3.209	3.000							8.9
Nuc Prop Equipment			11.673	32.150	7.900							51.7
HM&E				0.000	7.000							7.0
Electronics			0.462	2.783	39.277							42.5
Ordnance				2.055	30.500							32.6
Total AP			19.744	116.645	295.263							431.7

Description:

Funding in FY 2006 thru FY 2008 is required to procure long lead items and fund long lead efforts critical to supporting an FY 2009 contract award.

Efforts will include work package planning, integration, shipchecks, drawings. GFE engineering & hardware procurements.

The advance planning contracts are funded under Basic in each fiscal year.

CVN 71 AP began in FY06 and ends in FY08

Exhibit P-10, Advance Procurement Requirements Analysis (Page 2 - Budget Justification)								Date: **February 2008**	
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number **BA #2 OTHER WARSHIPS**					Weapon System **CVN 71 RCOH**			P-1 Line Item Nomenclature **CVN-68 Class RCOH**	
(TOA, $ in Millions)									
	PLT	QPA	Unit Cost	FY07 Qty	FY07 Contract Forecast Date	FY07 Total Cost Request	FY08 Qty	FY08 Contract Forecast Date	FY08 Total Cost Request
End Item									
Plans (Detailed)	various	Note 1			October 2006	9.6		October 2007	10.0
Basic	various	Note 1			October 2006	66.8		October 2007	197.6
Other	various	Note 1			October 2006	3.2		October 2007	3.0
Nuc Prop Equip	various	Note 1			October 2006	32.2		October 2007	7.9
HM&E	various	Note 1			October 2006	0.0		October 2007	7.0
Electronics	various	Note 1			October 2006	2.8		October 2007	39.3
Ordnance	various	Note 1			October 2006	2.1		October 2007	30.5
Total AP						116.6			295.3

Note 1: QPA is one shipset

CVN 71 AP began in FY06 and ends in FY08

Exhibit P-10, Advance Procurement Requirements Analysis (Page 1 - Funding)						Date: **February 2008**						
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number **BA #2 OTHER WARSHIPS**						P-1 Line Item Nomenclature **CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL (RCOH)**						
Weapon System **BLI: 208600 CVN 72 RCOH**				First System (BY6) Award Date **Feb 13**			First System (BY9) Completion Date **May 16**					
($ 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)						1.5	9.3	11.0	12.0			33.8
Basic						3.5	76.1	234.5	372.7			686.8
Other						1.8	5.5	7.0	13.9			28.2
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

Description:

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 & hardware procurements.

The advance planning contracts are funded under Basic in each fiscal year.

CVN 72 AP begins in FY09 and ends in FY012

Exhibit P-10, Advance Procurement Requirements Analysis (Page 2 - Budget Justification)								Date: **February 2008**	
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number **BA #2 OTHER WARSHIPS**					Weapon System **CVN 72 RCOH**			P-1 Line Item Nomenclature **CVN-68 Class RCOH**	
(TOA, $ in Millions)									
	PLT	QPA	Unit Cost	FY09 Qty	FY09 Contract Forecast Date	FY09 Total Cost Request	FY10 Qty	FY10 Contract Forecast Date	FY10 Total Cost Request
End Item									
Plans (Detailed)	various	Note 1			October 2008	1.5		October 2009	9.3
Basic	various	Note 1			October 2008	3.5		October 2009	76.1
Other	various	Note 1			October 2008	1.8		October 2009	5.5
Nuc Prop Equip	various	Note 1			October 2008	14.6		October 2009	34.0
HM&E	various	Note 1				0.0		October 2009	2.0
Electronics	various	Note 1				0.0		October 2009	0.4
Ordnance	various	Note 1				0.0		October 2009	0.4
Total AP						21.4			127.7

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 2009 President's Budget

DATE:
February 2008

APPROPRIATION/BUDGET ACTIVITY
SHIPBUILDING AND CONVERSION, NAVY/BA 2 Other Warships

P-1 LINE ITEM NOMENCLATURE
SSBN ERO
BLI: 2113

(Dollars in Millions)	PRIOR YR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TO COMP	TOTAL PROG
QUANTITY	2	1	1	1	1	1	1	1	5	14
End Cost	652.4	287.2	238.7	263.8	252.8	263.9	271.9	266.2	1,472.5	3,969.40
Less Advance Procurement	164.5	61.0	36.2	42.0	39.8	43.7	43.2	42.3	216.5	689.2
Less Cost to Complete	0	0	16.2	0	0	0	0	0	0	16.2
Full Funding TOA	488.0	226.2	186.3	221.8	212.9	220.2	228.7	224.0	1,256.1	3,264.2
Plus Advance Procurement	229.9	37.0	42.4	39.4	46.1	40.8	41.7	42.6	169.3	689.2
Total Obligational Authority	717.9	263.2	228.8	261.2	259.0	261.0	270.3	266.6	1,425.4	3953.4
Plus Cost to Complete	0	0	0	16.2	0	0	0	0	0	16.2
Plus Outfitting / Plus Post Delivery	2.2	1.0	1.7	2.8	4.2	2.9	2.0	0.9	0.0	17.7
Total	720.1	264.2	230.5	280.2	263.2	263.9	272.3	267.5	1,425.4	3987.3
Unit Cost (Ave. End Cost)	326.2	287.2	238.7	263.8	252.8	263.9	271.9	266.2	294.5	283.5

MISSION:

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 SSBNs. 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.

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

UNCLASSIFIED

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

BUDGET ACTIVITY: 2	**P-1 LINE ITEM NOMENCLATURE**	**SUBHEAD NO. 8234/H234 BLI: 2113**
Other Warships	**SSBN ERO**	

	FY 2006		**FY 2007**		**FY 2008**		**FY 2009**	
ELEMENT OF COST	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**
PLAN COSTS	1	37,849	1	32,868	1	30,754	1	34,197
BASIC CONST/CONVERSION		129,867		179,182		167,803		183,789
OTHER COST		3,335		3,301				
ORDNANCE		190,353		71,835		40,217		45,850
TOTAL SHIP ESTIMATE		361,404		287,186		238,774		263,836
LESS:								
Advance Procurement FY04		74,718						
Advance Procurement FY05		59,679		3,985				
Advance Procurement FY06				56,976		4,475		
Advance Procurement FY07						31,716		5,282
Advance Procurement FY08								36,731
FY09 Cost to Complete						16,244		
NET P-1 LINE ITEM:		227,007		226,225		186,339		221,823

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimate - Basic/Escalation

Ship Type: SSBN ERO

I.	Design/Schedule	Start/Issue	Complete /Response	Reissue	Complete /Response
	Issue date for TLR				
	Issue date for TLS				
	Preliminary Design				
	Contract Design				
	Detail Design				
	Request for Proposals				
	Design Agent				

II.	Classification of Cost Estimate	CLASS D - BUDGET QUALITY ESTIMATE (CONVERSION/MODERNIZATION/ERO)			
III.	Basic Construction/Conversion	SSBN 731	SSBN 732	SSBN 733	SSBN 734
	A. Actual 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				
	Escalation Termination Date				
	Escalation Requirement				
	Labor/Material Split				
	Allowable Overhead Rate				
V.	Other Basic(Reserves/Miscellaneous)	Amount			

SHIPBUILDING AND CONVERSION, NAVY
SHIP PRODUCTION SCHEDULE

SHIP TYPE	HULL NUMBER	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
SSBN	731	PUGET SOUND NAVAL SHIPYARD	2006	MAY-04	JAN-06	APR-08
SSBN	732	NORFOLK NAVAL SHIPYARD	2007	FEB-05	NOV-06	FEB-09
SSBN	733	PUGET SOUND NAVAL SHIPYARD	2008	FEB-06	JAN-08	APR-10
SSBN	734	NORFOLK NAVAL SHIPYARD	2009	FEB-07	JAN-09	APR-11
SSBN	735	PUGET SOUND NAVAL SHIPYARD	2010	MAY-08	JAN-10	APR-12
SSBN	736	NORFOLK NAVAL SHIPYARD	2011	MAY-09	JAN-11	APR-13
SSBN	737	PUGET SOUND NAVAL SHIPYARD	2012	MAY-10	JAN-12	APR-14
SSBN	738	NORFOLK NAVAL SHIPYARD	2013	MAY-11	JAN-13	APR-15

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type: TRIDENT SSBN	FY 2006		FY 2007		FY 2008		FY 2009	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST
ORDNANCE								
a. P-35 Items								
LAUNCHER & HANDLING	1	53,530	0	0	0	0	0	0
FIRE CONTROL	1	28,384	0	0	0	0	0	0
NAVIGATION	1	3,684	0	0	0	0	0	0
INSTRUMENTATION & MISSILE CHECKOUT	1	11,884	0	0	0	0	0	0
Subtotal		97,482		0		0		0
b. Major Items								
Subtotal		0		0		0		0
c. Other ORDNANCE								
SYSTEM INTEGRATION/ERO SITP	1	25,985	1	29,526	1	24,213	1	29,316
ADVANCE PLANNING	0	13,084	0	1,635	0	596	0	1,090
SHIPYARD INSTALLATION	1	50,718	1	14,852	1	9,589	1	11,544
DASO SUPPORT	1	3,084	1	3,392	1	5,350	1	3,600
ERO EQUIPMENT	1	0	1	22,430	1	469	1	300
Subtotal		92,871		71,835		40,217		45,850
Total ORDNANCE		190,353		71,835		40,217		45,850

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

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

Ship Type: **TRIDENT SSBN**
Equipment Item: **LAUNCHER & HANDLING**
PARM Code:

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

II. CURRENT FUNDING:

P-35 Category	**FY 2006**		**FY 2007**		**FY 2008**		**FY 2009**	
	QTY	**COST**	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**
Major Hardware	731	36,452	0	0	0	0	0	0
Technical Support Services		8,538		0		0		0
Ancillary Equipment		1,670		0		0		0
Other Costs (Production Shutdown)		6,870		0		0		0
Total		53,530		0		0		0

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
2004	SSBN	Northrop Grumman	CPIF/SS	OCT-03	NEW	1	36,452

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
2004	SSBN	APR-08	27	12-24	MAY-04

V. COMPETITION/SECOND SOURCE INITIATIVES:

NOTE:

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

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

Ship Type: **TRIDENT SSBN**
Equipment Item: **FIRE CONTROL**
PARM Code:

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

II. CURRENT FUNDING:

P-35 Category	**FY 2006**		**FY 2007**		**FY 2008**		**FY 2009**	
	QTY	**COST**	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**
Major Hardware	731	22,560	0	0	0	0	0	0
Technical Support Services		2,262		0		0		0
Other Costs (LSCG Phase 1 SPALT)		3,562		0		0		0
Total		28,384		0		0		0

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
2004	SSBN	GDAIS	CPIF/SS	OCT-03	New	1	22,560

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
2004	SSBN	APR-08	27	24	MAY-04

V. COMPETITION/SECOND SOURCE INITIATIVES:

NOTE:

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

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

Ship Type: **TRIDENT SSBN**
Equipment Item: **NAVIGATION**
PARM Code:

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

II. CURRENT FUNDING:

P-35 Category	**FY 2006**		**FY 2007**		**FY 2008**		**FY 2009**	
	QTY	**COST**	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**
Technical Support Services	731	3,684	0	0	0	0	0	0
Total		3,684		0		0		0

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE

V. COMPETITION/SECOND SOURCE INITIATIVES:

NOTE:

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

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

Ship Type: **TRIDENT SSBN**
Equipment Item: **INSTRUMENTATION & MISSILE CHECKOUT**
PARM Code:

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

II. CURRENT FUNDING:

P-35 Category	FY 2006		FY 2007		FY 2008		FY 2009	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST
Major Hardware	731	2,671	0	0	0	0	0	0
Technical Support Services		5,971		0		0		0
Ancillary Equipment		1,971		0		0		0
Other Costs (M240R Data Recording System)		1,271		0		0		0
Total		11,884		0		0		0

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
2004	SSBN	ockheed Martin Space Systems C	CPIF/SS	OCT-03	New	1	0

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
2004	SSBN	APR-08	27	24	MAY-04

V. COMPETITION/SECOND SOURCE INITIATIVES:

NOTE:

Exhibit P-10, Advance Procurement Requirements Analysis (Page 1 - Funding)							Date: February 2008					
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number 1711 Shipbuilding and Conversion, Navy/BA 01/BLI 211300							P-1 Line Item Nomenclature SSBN EROs					
OHIO (SSBN 726) Class Submarines Submarine Refueling Overhauls (ERO): 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		Mar-07			
($ in Millions)		When	Prior									
	PLT	Req'd	Years		FY07	FY08	FY09	FY10	FY11	FY12	FY13	Total
End Item Qty												
PLANS - FY06 ERO (1)		Various	36.8		-	-	-	-	-	-	-	36.8
PLANS - FY07 ERO (1)		Various	32.9		-	-	-	-	-	-	-	32.9
PLANS - FY08 ERO (1)		Various	4.5		26.3	-	-	-	-	-	-	30.8
PLANS - FY09 ERO (1)		Various	-		3.9	30.3	-	-	-	-	-	34.2
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	0.0		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	-	-	-	-	7.5
EQUIPMENT PROCUREMENT - FY11 ERO (3)		Various	-		-	-	1.2	6.1	-	-	-	7.3
EQUIPMENT PROCUREMENT - FY12 ERO (3)		Various	-		-	-	-	2.1	7.6	-	-	9.7
EQUIPMENT PROCUREMENT - FY13 ERO (3)		Various	-		-	-	-	-	1.7	8.5	-	10.1
EQUIPMENT PROCUREMENT - FY14 ERO (3)		Various	-		-	-	-	-	-	1.0	8.2	9.2
EQUIPMENT PROCUREMENT - FY15 ERO (3)		Various	-		-	-	-	-	-	-	1.5	1.5
TOTAL AP			229.9		37.0	42.5	39.4	46.1	40.8	41.7	42.6	519.9

(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 preformed 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 provide 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.

Note: 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: **February 2008**								
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number: 1711 Shipbuilding and Conversion, Navy/BA 1 - 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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total
End Item Qty					1	1	1	1	1	1	1	7	14
D5 Backfit AP													
ERO AP	12-24	FY 07/13	28.1		6.8	7.5	7.7	8.2	9.3	9.5	9.7	39.0	125.7
Total Advance Procurement					**6.8**	**7.5**	**7.7**	**8.2**	**9.3**	**9.5**	**9.7**	**39.0**	**125.7**

Description:

ERO AP - 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 2008
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number 1711 Shipbuilding and Conversion, Navy/BA 01/BLI 211300				OHIO (SSBN 726) Class Submarines					P-1 Line Item Nomenclature: SSBN EROs			
(TOA, $ in Millions)												
	PLT	QPA	Unit Cost	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	FY 09 Qty	FY 09 Contract Forecast Date	FY 09 Total Cost Request
End Item				1	February-05		1	February-06		1	February-07	
PLANS (1) FY07 ERO												27.7
PLANS (1) FY08 ERO						26.3						4.0
PLANS (1) FY09 ERO						3.9			30.3			
PLANS (1) FY10 ERO									4.7			
EQUIPMENT (3) FY07 ERO												6.4
EQUIPMENT (3) FY08 ERO						5.4						1.2
EQUIPMENT (3) FY09 ERO						1.4			6.5			
EQUIPMENT (3) FY10 ERO									1.0			
Total AP						**37.0**			**42.5**			**39.4**

(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: **February 2008**
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number: 1711 Shipbuilding and Conversion, Navy/BA 1 - 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 2007 Qty	FY 2007 Contract Forecast Date	FY 2007 Total Cost Request	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-05	N/A		Feb-06	N/A		Feb-07	N/A
CFE/Ordnance:												
Other Advance Proc:												
ERO AP	12	1 Shipset		1 Lot	1st Quarter FY 07	6.8	1 Lot		7.5	1 Lot		7.7
Total Advance Procurement						**6.8**			**7.5**			**7.7**

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

DATE: February 2008

APPROPRIATION/BUDGET ACTIVITY
SHIPBUILDING AND CONVERSION, NAVY/BA 2 Other Warships

P-1 LINE ITEM NOMENCLATURE
DDG 1000
BLI: 2119 / SUBHEAD NO.

(Dollars in Millions)	PRIOR YR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TO COMP	TOTAL PROG
QUANTITY	0	2	0	1	1	1	1	1	0	7
End Cost	0.0	6,324.5	2,757.0	2,652.6	2,714.3	2,427.6	2,619.1	2,397.4	0.0	21,892.5
Less Advance Procurement	0.0	1,010.2	0.0	149.8	51.0	50.6	50.0	50.0	0.0	1,361.6
Less Subsequent Year FF	0.0	2,757.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,757.0
Plus Subsequent Year FF	0.0	0.0	2,757.0	0.0	0.0	0.0	0.0	0.0	0.0	2,757.0
Full Funding TOA	0.0	2,557.3	2,757.0	2,502.8	2,663.3	2,377.0	2,569.1	2,347.4	0.0	17,773.9
Plus Advance Procurement	1,010.2	0.0	149.8	51.0	50.6	50.0	50.0	0.0	0.0	1,361.6
Total Obligational Authority	1,010.2	2,557.3	2,906.9	2,553.8	2,713.9	2,427.0	2,619.1	2,347.4	0.0	19,135.6
Plus Outfitting / Plus Post Delivery	0.0	0.0	0.0	0.0	15.8	60.5	86.6	131.6	513.0	807.6
Total	1,010.2	2,557.3	2,906.9	2,553.8	2,729.7	2,487.5	2,705.7	2,479.0	513.0	19,943.2
Unit Cost (Ave. End Cost)	0.0	3,162.3	0.0	2,652.6	2,714.3	2,427.6	2,619.1	2,397.4	0.0	3,127.5

MISSION:

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-surface combantant, 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.

Characteristics:		Production Status*:	0701	0702	0901
Hull		Contract Plans			
Length Overall	610'	Award Planned (Month)	02/08	02/08	01/09
Beam	80.7'	Months to Complete			
Displacement (LT)	14,564	a)Award to Delivery	60	74	72
Draft (Navigation)	27.6'	b)Construction Start to	54	54	55
Speed	30 kts	Commissioning Date	TBD	TBD	TBD
Installed Power	78.4 MW	Completion of			
Crew Size	142	Fitting Out	02/13	04/14	02/15
Hull	Wave-piercing tumblehome				
Superstructure	Composite structure				

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

*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.

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

BUDGET ACTIVITY: 2	**P-1 LINE ITEM NOMENCLATURE**	**SUBHEAD NO. BLI: 2119**
Other Warships	**DDG 1000**	

	FY 2007		**FY 2009**	
ELEMENT OF COST	**QTY**	**COST**	**QTY**	**COST**
PLAN COSTS	2	910,100	1	74,138
BASIC CONST/CONVERSION		2,584,000		1,319,131
CHANGE ORDERS		258,400		65,957
ELECTRONICS		1,602,396		736,354
HM&E		86,151		42,905
OTHER COST		130,000		66,558
ORDNANCE		753,546		347,590
TOTAL SHIP ESTIMATE		6,324,593		2,652,633
LESS:				
Less: Advance Procurement FY05		304,048		
Less: Advance Procurement FY06		706,240		
Less: Advance Procurement FY08				149,830
Less: FY08 Subsequent Year Full Funding		2,757,037		
NET P-1 LINE ITEM:		2,557,268		2,502,803

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimate - Basic/Escalation

Ship Type: DDG 1000

I.	Design/Schedule	Start/Issue	Complete /Response	Reissue	Complete /Response
	Issue date for TLR				
	Issue date for TLS				
	Preliminary Design				
	Contract Design				
	Detail Design				
	Request for Proposals				
	Design Agent				
	ISSUE DATE FOR ORD	11/97 (DD-21)	5/04 (DD(X))		
	PRELIMINARY DESIGN REVIEW (PDR)	1/04	3/04		
	CRITICAL DESIGN REVIEW (CDR)	6/05	9/05		
	MILESTONE B	11/05	11/05		
	REQUEST FOR PROPOSALS (LEAD SHIPS)	1/06	4/06		
	DAB REVIEW (LEAD SHIP CONSTRUCTION)	10/06	10/06		
II.	Classification of Cost Estimate	CLASS C BUDGET ESTIMATE			
III.	Basic Construction/Conversion	0701	0702	0901	
	A. Actual Award Date	JAN-08	JAN-08	JAN-09	
	B. Contract Type (and Share Line if applicable)	TBD	TBD	TBD	
IV.	Escalation	N/A FORWARD PRICED			
	Escalation Termination Date				
	Escalation Requirement				
	Labor/Material Split				
	Allowable Overhead Rate				
V.	Other Basic(Reserves/Miscellaneous)	Amount			

SHIP TYPE	HULL NUMBER	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
DDG 1000	1000	BIW	07	FEB-08	JUL-08	DEC-12
DDG 1000	1001	NGSS	07	FEB-08	SEP-09	FEB-14
DDG 1000	1002	TBD	09	JAN-09	JUL-10	DEC-14
DDG 1000	1003	TBD	10	JAN-10	JUL-11	JUL-15
DDG 1000	1004	TBD	11	JAN-11	JUL-12	JAN-16
DDG 1000	1005	TBD	12	JAN-12	JUL-13	JUL-17
DDG 1000	1006	TBD	13	JAN-13	JUL-14	JAN-18

Note: Delivery dates are for planning purposes only and actual dates are dependent upon final shipbuilder construction negotiations.

FY09-13 Start of Construction and Delivery Dates for follow-on ships will be revised after award of the lead ship contracts.

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type: DDG 1000	FY 2007		FY 2009	
	QTY	COST	QTY	COST
HM&E				
a. P-35 Items				
MAIN TURBINE GENERATOR (MTG)	4	85,117	2	42,367
Subtotal		85,117		42,367
b. Major Items				
RIGID HULL INFLATABLE BOAT (RHIB)	2	1,034	1	538
Subtotal		1,034		538
c. Other HM&E				
	0	0	0	0
Subtotal		0		0
Total HM&E		86,151		42,905

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type: DDG 1000	FY 2007		FY 2009	
	QTY	COST	QTY	COST
ELECTRONICS				
a. P-35 Items				
EXCOMMS (SHIPSET)	2	272,313	1	105,720
INTEGRATED UNDERSEA WARFARE (IUSW) SYSTEM	2	97,165	1	59,128
DUAL BAND RADAR (DBR)	2	539,452	1	293,304
COMMON ARRAY POWER SYSTEM (CAPS)	2	110,379	1	36,119
TOTAL SHIP COMPUTING ENVIRONMENT (TSCE)	2	187,624	1	72,843
ELECTRO-OPTICAL / INFRARED (EO/IR)	2	55,538	1	15,836
IDENTIFICATION FRIEND OR FOE (IFF)	2	21,406	1	8,357
COMMON ARRAY COOLING SYSTEM (CACS)	2	13,537	1	4,004
ELECTRONIC MODULAR ENCLOSURES (EME) (SHIPSET)	2	35,557	1	4,372
SHIP CONTROL SYSTEM (SCS)	2	57,862	1	33,673
Subtotal		1,390,833		633,356
b. Major Items				
Subtotal		0		0
c. Other ELECTRONICS				
MISSION SYSTEM ENGR INTEGR & TEST (MSEIT)	0	211,563	0	102,998
Subtotal		211,563		102,998
Total ELECTRONICS		1,602,396		736,354

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type: DDG 1000	FY 2007		FY 2009	
	QTY	COST	QTY	COST
ORDNANCE				
a. P-35 Items				
ADVANCED GUN SYSTEM (AGS)	2	417,378	1	241,245
VERTICAL LAUNCHING SYSTEM (VLS) MK 57 4-CELL MODULES	8	194,581	4	62,494
CLOSE-IN GUN SYSTEM (CIGS)	4	75,064	2	25,441
Subtotal		687,023		329,180
b. Major Items				
Subtotal		0		0
c. Other ORDNANCE				
	0	66,522	0	18,410
Subtotal		66,522		18,410
Total ORDNANCE		753,545		347,590

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

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

Ship Type: **DDG 1000**
Equipment Item: **EXCOMMS (SHIPSET)**
PARM Code:

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:

P-35 Category	**FY 2007**		**FY 2009**	
	QTY	**COST**	**QTY**	**COST**
Major Hardware	2	141,002	1	75,383
Technical Support Services		11,099		5,494
Government Legacy Systems* (POR)		47,623		24,843
Other Costs (NRE)		72,589		0
Total		272,313		105,720

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	DDG-1000	Raytheon		MAR-08		2	70,501
FY09	DDG-1000	Raytheon		MAR-09		1	75,383

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	DDG-1000	DEC-12	31	26	MAR-08
FY09	DDG-1000	DEC-14	41	22	SEP-09

V. COMPETITON/SECOND SOURCE INITIATIVES:

N/A

NOTE:

Note: Ship delivery dates, award dates and equipment timelines are for planning purposes only and actual dates are dependent upon final shipbuilder construction negotiations.

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Ship Type: **DDG 1000**
Equipment Item: **INTEGRATED UNDERSEA WARFARE (IUSW) SYSTEM**
PARM Code:

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:

P-35 Category	**FY 2007**		**FY 2009**	
	QTY	**COST**	**QTY**	**COST**
Major Hardware	2	60,708	1	30,267
Technical Support Services		4,779		2,391
Other Costs (NRE)		31,678		0
Battle Spares		0		26,470
Total		97,165		59,128

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	DDG-1000	Raytheon		MAR-08		2	30,354
FY09	DDG-1000	Raytheon		MAR-09		1	30,267

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	DDG-1000	DEC-12	33	24	MAR-08
FY09	DDG-1000	DEC-14	37	24	NOV-09

V. COMPETITON/SECOND SOURCE INITIATIVES:

N/A

NOTE:

Note: Ship delivery dates, award dates and equipment timelines are for planning purposes only and actual dates are dependent upon final shipbuilder construction negotiations.

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Ship Type: **DDG 1000**
Equipment Item: **DUAL BAND RADAR (DBR)**
PARM Code:

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:

P-35 Category	FY 2007 QTY	FY 2007 COST	FY 2009 QTY	FY 2009 COST
Major Hardware	2	362,942	1	174,150
Technical Support Services		30,775		37,032
Other Costs (NRE)		145,735		5,697
Battle Spares		0		53,697
Total		539,452		270,576

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	DDG-1000	Raytheon		MAR-08		2	181,471
FY09	DDG-1000	Raytheon		MAR-09		1	174,150

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	DDG-1000	DEC-12	33	24	MAR-08
FY09	DDG-1000	DEC-14	36	24	DEC-09

V. COMPETITON/SECOND SOURCE INITIATIVES:

N/A

NOTE:

Note: Ship delivery dates, award dates and equipment timelines are for planning purposes only and actual dates are dependent upon final shipbuilder construction negotiations.

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Ship Type: **DDG 1000**
Equipment Item: **COMMON ARRAY POWER SYSTEM (CAPS)**
PARM Code:

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:

P-35 Category	**FY 2007**		**FY 2009**	
	QTY	**COST**	**QTY**	**COST**
Major Hardware	2	68,494	1	33,450
Technical Support Services		5,392		2,669
Other Costs (NRE)		36,493		0
Total		110,379		36,119

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	DDG-1000	Raytheon		MAR-08		2	34,247
FY09	DDG-1000	Raytheon		MAR-09		1	33,450

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	DDG-1000	DEC-12	36	21	MAR-08
FY09	DDG-1000	DEC-14	42	21	SEP-09

V. COMPETITON/SECOND SOURCE INITIATIVES:

N/A

NOTE:

Note: Ship delivery dates, award dates and equipment timelines are for planning purposes only and actual dates are dependent upon final shipbuilder construction negotiations.

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Ship Type: **DDG 1000**
Equipment Item: **TOTAL SHIP COMPUTING ENVIRONMENT (TSCE)**
PARM Code:

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:

P-35 Category	**FY 2007**		**FY 2009**	
	QTY	**COST**	**QTY**	**COST**
Major Hardware	2	120,692	1	60,456
Technical Support Services		9,500		4,703
TSCE Display Services		14,730		7,684
Other Costs (NRE)		42,702		0
Total		187,624		72,843

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	DDG-1000	Raytheon		MAR-08		2	60,346
FY09	DDG-1000	Raytheon		MAR-09		1	60,456

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	DDG-1000	DEC-12	36	21	MAR-08
FY09	DDG-1000	DEC-14	42	21	SEP-09

V. COMPETITON/SECOND SOURCE INITIATIVES:

N/A

NOTE:

Note: Ship delivery dates, award dates and equipment timelines are for planning purposes only and actual dates are dependent upon final shipbuilder construction negotiations.

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Ship Type: **DDG 1000**
Equipment Item: **ELECTRO-OPTICAL / INFRARED (EO/IR)**
PARM Code:

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

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) gimbaled 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:

P-35 Category	**FY 2007**		**FY 2009**	
	QTY	**COST**	**QTY**	**COST**
Major Hardware	2	25,703	1	14,804
Technical Support Services		2,023		1,032
Other Costs (NRE)		27,812		0
Total		55,538		15,836

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	DDG-1000	Raytheon		MAR-08		2	12,852
FY09	DDG-1000	Raytheon		MAR-09		1	14,804

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	DDG-1000	DEC-12	35	22	MAR-08
FY09	DDG-1000	DEC-14	41	22	SEP-09

V. COMPETITON/SECOND SOURCE INITIATIVES:

N/A

NOTE:

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Ship Type: **DDG 1000**
Equipment Item: **IDENTIFICATION FRIEND OR FOE (IFF)**
PARM Code:

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

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:

P-35 Category	**FY 2007**		**FY 2009**	
	QTY	**COST**	**QTY**	**COST**
Major Hardware	2	11,850	1	7,895
Technical Support Services		932		462
Other Costs (NRE)		8,624		0
Total		21,406		8,357

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	DDG-1000	Raytheon		MAR-08		2	5,925
FY09	DDG-1000	Raytheon		MAR-09		1	7,895

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	DDG-1000	DEC-12	28	29	MAR-08
FY09	DDG-1000	DEC-14	34	24	FEB-10

V. COMPETITON/SECOND SOURCE INITIATIVES:

N/A

NOTE:

Note: Ship delivery dates, award dates and equipment timelines are for planning purposes only and actual dates are dependent upon final shipbuilder construction negotiations.

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Ship Type: **DDG 1000**
Equipment Item: **COMMON ARRAY COOLING SYSTEM (CACS)**
PARM Code:

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

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:

P-35 Category	**FY 2007**		**FY 2009**	
	QTY	**COST**	**QTY**	**COST**
Major Hardware	2	6,791	1	3,731
Technical Support Services		534		273
Other Costs (NRE)		6,212		0
Total		13,537		4,004

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	DDG-1000	Raytheon		MAR-08		2	3,395
FY09	DDG-1000	Raytheon		MAR-09		1	3,731

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	DDG-1000	DEC-12	37	20	MAR-08
FY09	DDG-1000	DEC-14	43	20	SEP-09

V. COMPETITON/SECOND SOURCE INITIATIVES:

N/A

NOTE:

Note: Ship delivery dates, award dates and equipment timelines are for planning purposes only and actual dates are dependent upon final shipbuilder construction negotiations.

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Ship Type: **DDG 1000**
Equipment Item: **ELECTRONIC MODULAR ENCLOSURES (EME) (SHIPSET)**
PARM Code:

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

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:

P-35 Category	**FY 2007**		**FY 2009**	
	QTY	**COST**	**QTY**	**COST**
Major Hardware	2	8,291	1	4,049
Technical Support Services		653		323
Other Costs (NRE)		26,613		0
Total		35,557		4,372

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	DDG-1000	Raytheon		MAR-08		2	4,146
FY09	DDG-1000	Raytheon		MAR-09		1	4,049

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	DDG-1000	DEC-12	0	0	
FY09	DDG-1000	DEC-14	0	0	

V. COMPETITON/SECOND SOURCE INITIATIVES:

N/A

NOTE:

EMEs are delivered with EXCOMMs and TSCE.

Note: Ship delivery dates, award dates and equipment timelines are for planning purposes only and actual dates are dependent upon final shipbuilder construction negotiations.

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Ship Type: **DDG 1000**
Equipment Item: **SHIP CONTROL SYSTEM (SCS)**
PARM Code:

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

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:

P-35 Category	**FY 2007**		**FY 2009**	
	QTY	**COST**	**QTY**	**COST**
Major Hardware	2	53,525	1	31,588
Technical Support Services		4,213		2,085
Other Costs (NRE)		124		0
Total		57,862		33,673

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	DDG-1000	Raytheon		MAR-08		2	26,762
FY09	DDG-1000	Raytheon		MAR-09		1	31,588

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	DDG-1000	DEC-12	24	30	JUN-08
FY09	DDG-1000	DEC-14	24	24	DEC-10

V. COMPETITON/SECOND SOURCE INITIATIVES:

N/A

NOTE:

Note: Ship delivery dates, award dates and equipment timelines are for planning purposes only and actual dates are dependent upon final shipbuilder construction negotiations.

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Ship Type: **DDG 1000**
Equipment Item: **ADVANCED GUN SYSTEM (AGS)**
PARM Code:

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:

P-35 Category	**FY 2007**		**FY 2009**	
	QTY	**COST**	**QTY**	**COST**
Major Hardware	4	303,840	2	160,403
Technical Support Services		19,338		10,212
Other Costs (NRE)		94,200		0
Battle Spares		0		70,630
Total		417,378		241,245

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	DDG-1000	BAE		MAR-08		4	75,960
FY09	DDG-1000	BAE		MAR-09		2	80,202

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	DDG-1000	DEC-12	24	39	SEP-07
FY09	DDG-1000	DEC-14	24	39	SEP-09

V. COMPETITON/SECOND SOURCE INITIATIVES:

N/A

NOTE:

Note: Ship delivery dates, award dates and equipment timelines are for planning purposes only and actual dates are dependent upon final shipbuilder construction negotiations.

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Ship Type: **DDG 1000**
Equipment Item: **VERTICAL LAUNCHING SYSTEM (VLS) MK 57 4-CELL MODULES**
PARM Code:

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:

P-35 Category	**FY 2007**		**FY 2009**	
	QTY	**COST**	**QTY**	**COST**
Major Hardware	8	116,219	4	58,762
Technical Support Services		7,492		3,732
Other Costs (NRE)		70,870		0
Total		194,581		62,494

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	DDG-1000	Raytheon		MAR-08		8	14,527
FY09	DDG-1000	Raytheon		MAR-09		4	14,691

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	DDG-1000	DEC-12	28	29	MAR-08
FY09	DDG-1000	DEC-14	30	24	JUN-10

V. COMPETITON/SECOND SOURCE INITIATIVES:

N/A

NOTE:

Note: Ship delivery dates, award dates and equipment timelines are for planning purposes only and actual dates are dependent upon final shipbuilder construction negotiations.

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Ship Type: **DDG 1000**
Equipment Item: **CLOSE-IN GUN SYSTEM (CIGS)**
PARM Code:

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:

P-35 Category	**FY 2007**		**FY 2009**	
	QTY	**COST**	**QTY**	**COST**
Major Hardware	4	45,693	2	23,912
Technical Support Services		2,946		1,529
Other Costs (NRE)		26,425		0
Total		75,064		25,441

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	DDG-1000	BAE		MAR-08		4	11,423
FY09	DDG-1000	BAE		MAR-09		2	11,956

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	DDG-1000	DEC-12	27	30	MAR-08
FY09	DDG-1000	DEC-14	27	24	SEP-10

V. COMPETITON/SECOND SOURCE INITIATIVES:

N/A

NOTE:

Note: Ship delivery dates, award dates and equipment timelines are for planning purposes only and actual dates are dependent upon final shipbuilder construction negotiations.

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Ship Type: **DDG 1000**
Equipment Item: **MAIN TURBINE GENERATOR (MTG)**
PARM Code:

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:

P-35 Category	**FY 2007**		**FY 2009**	
	QTY	**COST**	**QTY**	**COST**
Major Hardware	4	77,703	2	40,923
Technical Support Services		2,776		1,444
Other Costs (NRE)		4,638		0
Total		85,117		42,367

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	DDG-1000	Rolls-Royce		MAR-07	New	4	19,426
FY09	DDG-1000	Rolls-Royce		MAR-09	Option	2	20,462

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	DDG-1000	DEC-12	24	24	DEC-08
FY09	DDG-1000	DEC-14	24	24	DEC-10

V. COMPETITON/SECOND SOURCE INITIATIVES:

N/A

NOTE:

Note: Ship delivery dates, award dates and equipment timelines are for planning purposes only and actual dates are dependent upon final shipbuilder construction negotiations.

Exhibit P-10 Advance Procurement Requirements Analysis (Page 1 - Funding)	Date: February 2008
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number 211900	P-1 Line Item Nomenclature FY07 DDG 1000
Weapon System / Platform Basic Construction - Shipbuilding	First System (BY1) Completion Date Dec 12

($ in Millions)

	PLT	When Req'd	Prior Years	CY FY2007	BY1 FY2008	BY2 FY2009	BY2+1 FY2010	BY2+2 FY2011	BY2+3 FY2012	BY2+4 FY2013	To Complete	Total
End Item Qty												
Plans	Various	Various	357.0								0.0	357.0
Basic	Various	Various	82.3								0.0	82.3
HM&E	Various	Various									0.0	0.0
Electronics	Various	Various	475.3								0.0	475.3
Ordnance	Various	Various	95.6								0.0	95.6
Total Advance Proc			**1,010.2**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**1,010.2**

Description:

This Advance Procurement funding is for the FY07 ships.

Advance Procurement (AP) funding is required to procure material to meet equipment in-yard need dates to maintain ship construction schedules and for detail design efforts for the two FY07 ships.

Plans funding is required to fund the detail design efforts for the lead ships.

Basic, HM&E, Electronics, and Ordnance funding is required to fund mission systems transition to production as well as procurement and production of LLTM.

Exhibit P-10 Advance Procurement Requirements Analysis (Page 2 - Budget Justification)			Date: February 2008
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number 211900	Weapon System FY07 DDG 1000		P-1 Line Item Nomenclature FY07 DD(X)

($ in Millions)

	PLT	QPA	Unit Cost	FY04 Qty	FY04 Contract Forecast Date	FY04 Total Cost Request	FY05 Qty	FY05 Contract Forecast Date	FY05 Total Cost Request	FY06 Qty	FY06 Contract Forecast Date	FY06 Total Cost Request
End Item												
Plans	Various							Oct-05	106.8		Mar-06	70.4
	Various							Mar-06	30.6		Aug-06	149.2
Basic	Various										Aug-06	82.3
HM&E	Various											
Electronics	Various							May-05	132.6		Mar-06	342.7
Ordnance	Various							May-05	34.0		Mar-06	61.6
Total Advance Proc									**304.0**			**706.2**

Description:

This Advance Procurement funding is for the FY07 ships.

Advance Procurement (AP) funding is required to procure material to meet equipment in-yard need dates to maintain ship construction schedules and for detail design efforts for the two FY07 ships.

Plans funding is required to fund the detail design efforts for the lead ships.

Basic, HM&E, Electronics, and Ordnance funding is required to fund mission systems transition to production as well as procurement and production of LLTM.

Exhibit P-10 Advance Procurement Requirements Analysis (Page 1 - Funding)						Date: February 2008							
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
End Item Qty													
Plans	Various	Various											
Basic	Various	Various											
HM&E	Various	Various				49.6						0.0	49.6
Electronics	Various	Various				90.5						0.0	90.5
Ordnance	Various	Various				9.7						0.0	9.7
Total Advance Proc						**149.8**						**0.0**	**149.8**

Description:

This Advance Procurement funding is for the FY09 ship.

Advance Procurement (AP) 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); LLTM C2/EXCOMMs to support increment (1) testing and integration at Wallops Island, LLTM procurement for DBR (electronics); and IPS equipment to support testing and integration at Philadelphia Land Based Test Site (HM&E).

Exhibit P-10 Advance Procurement Requirements Analysis (Page 2 - Budget Justification)			Date: February 2008
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number 211900	Weapon System FY09 DDG 1000		P-1 Line Item Nomenclature FY09 DDG 1000

($ in Millions)

	PLT	QPA	Unit Cost	FY06 Qty	FY06 Contract Forecast Date	FY06 Total Cost Request	FY07 Qty	FY07 Contract Forecast Date	FY07 Total Cost Request	FY08 Qty	FY08 Contract Forecast Date	FY08 Total Cost Request
End Item												
Plans	Various											
Basic	Various											
HM&E	Various									1	Dec-07	49.6
Electronics	Various									2	Feb-08	90.5
Ordnance	Various									1	Dec-07	9.7
Total Advance Proc												**149.8**

Description:

This Advance Procurement funding is for the FY09 ship.

Advance Procurement (AP) 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); LLTM C2/EXCOMMs to support increment (1) testing and integration at Wallops Island, LLTM procurement for DBR (electronics); and IPS equipment to support testing and integration at Philadelphia Land Based Test Site (HM&E).

Exhibit P-10 Advance Procurement Requirements Analysis (Page 1 - Funding)						Date: February 2008							
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
End Item Qty													
Plans	Various	Various											
Basic	Various	Various											
HM&E	Various	Various					15.0					0.0	15.0
Electronics	Various	Various					26.0					0.0	26.0
Ordnance	Various	Various					10.0					0.0	10.0
Total Advance Proc							**51.0**					**0.0**	**51.0**

Description:

This Advance Procurement funding is for the FY10 ship.

Advance Procurement (AP) funding is required to procure material to meet equipment in-yard need dates to maintain ship construction schedules.

Funding provides LLTM for AGS (Ordnance); LLTM C2/EXCOMMS to support increment (2) testing and integration at Wallops Island, LLTM for DBR (Electronics); and LLTM for IPS (HM&E).

Exhibit P-10 Advance Procurement Requirements Analysis (Page 2 - Budget Justification)												Date: February 2008
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number 211900				Weapon System FY10 DDG 1000						P-1 Line Item Nomenclature FY10 DDG 1000		
($ in Millions)												
	PLT	QPA	Unit Cost	FY07 Qty	FY07 Contract Forecast Date	FY07 Total Cost Request	FY08 Qty	FY08 Contract Forecast Date	FY08 Total Cost Request	FY09 Qty	FY09 Contract Forecast Date	FY09 Total Cost Request
End Item												
Plans	Various											
Basic	Various											
HM&E	Various									1	Dec-08	15.0
Electronics	Various									2	Feb-09	26.0
Ordnance	Various									1	Dec-08	10.0
Total Advance Proc												**51.0**

Description:

This Advance Procurement funding is for the FY10 ship.

Advance Procurement (AP) funding is required to procure material to meet equipment in-yard need dates to maintain ship construction schedules.

Funding provides LLTM for AGS (Ordnance); LLTM C2/EXCOMMS to support increment (2) testing and integration at Wallops Island,

LLTM for DBR (Electronics); and LLTM for IPS (HM&E).

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

DATE: February 2008

APPROPRIATION/BUDGET ACTIVITY
SHIPBUILDING AND CONVERSION, NAVY/BA 2 Other Warships

P-1 LINE ITEM NOMENCLATURE
DDG-51
BLI: 2122 / SUBHEAD NO. 1224

(Dollars in Millions)	PRIOR YR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TO COMP	TOTAL PROG
QUANTITY	62	0	0	0	0	0	0	0	0	62
End Cost	56,944.1	354.3	47.7	0.0	0.0	0.0	0.0	0.0	0.0	57,346.1
Less Advance Procurement	1,324.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,324.7
Less FY96 Funding for MYP	99.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.3
Less FY97 Funding for MYP	63.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.1
Less Cost to Complete	731.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	731.4
Less Escalation	48.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.2
Less FY00 Transfer	32.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5
Less FY01 Supplemental	151.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	151.0
Less FY02 Transfer Funds (Sec. 8130)	17.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5
Less FY03 Transfer	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3
Less FY06 Hurricane Supplemental	302.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	302.6
Less FY07 Transfer	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
Full Funding TOA	54,156.3	354.3	47.7	0.0	0.0	0.0	0.0	0.0	0.0	54,558.3
Plus Advance Procurement	1,324.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,324.7
Plus F.F. for MYP	162.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	162.4
Plus Cost to Complete	731.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	731.4
Total Obligational Authority	56,374.8	354.3	47.7	0.0	0.0	0.0	0.0	0.0	0.0	56,776.8
Plus FY00 Transfer	32.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5
Plus FY01 Supplemental	151.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	151.0
Plus FY02 Transfer Funds (Sec. 8130)	17.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5
Plus FY03 Transfer	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3
Plus FY06 Hurricane Supplemental	302.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	302.6
Plus FY07 Transfer	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
Plus Outfitting / Plus Post Delivery	1,641.8	99.3	102.0	134.3	179.0	70.3	15.4	0.0	0.0	2,242.1
Plus FY06 Outfitting Hurricane Supplemental	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4
Plus Escalation	48.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.2
Total	58,593.3	453.6	149.8	134.3	179.0	70.3	15.4	0.0	0.0	59,595.7
Unit Cost (Ave. End Cost)	918.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	924.9

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) as scenarios as well as open ocean conflict providing or augmenting power projection and forward presence requirements, and escort operations at Sea.

Characteristics:		Production Status:	0501	0502	0503
Hull	FLIGHT IIA	Contract Plans			
Length overall	471'	Award Planned (Month)	09/02	09/02	09/02
Beam	59'	Months to Complete			
Displacement	9217 TONS	a) Award to Delivery	96	95	103
		b) Construction Start to	40	40	38
Armament		Commissioning Date	TBD	TBD	TBD
AEGIS WEAPON SYSTEM (SPY-1D(V))		Completion of			
VLS MK41/SM-2		Fitting-Out	01/11	12/10	08/11
5"62 Gun					
Tomahawk (TTWCS)		Major Electronics:			
MK 32 MOD 7 Torpedo Tubes		AN/SQQ-89 (V) 15	EXCOMM	JTIDS/MIDS	
CIWS / ESSM		AN/SLQ-32	MK 12 IFF		
CEC		AN/USQ-82(FODMS)	COBLU/SSEE		

(1) FY 06-08 reflects cost associated with the completion of the program.

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

BUDGET ACTIVITY: 2	**P-1 LINE ITEM NOMENCLATURE**	**SUBHEAD NO. 1224 BLI: 2122**
Other Warships	**DDG-51**	

	FY 2002		**FY 2003**		**FY 2004**		**FY 2005**		**FY 2006**	
ELEMENT OF COST	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**
PLAN COSTS	3	83,939	2	88,973	3	76,404	3	79,165		30,000
BASIC CONST/CONVERSION		1,606,499		1,070,454		1,632,890		1,711,830		
CHANGE ORDERS		76,110		49,334		79,948		83,156		
ELECTRONICS		505,358		350,522		467,034		494,563		
HM&E		50,028		37,639		47,990		48,714		
OTHER COST		54,474		50,162		56,066		57,064		20,757
ORDNANCE		974,120		835,486		994,604		1,056,092		96,690
TOTAL SHIP ESTIMATE		3,350,528		2,482,570		3,354,936		3,530,584		147,447
LESS:										
Less Cost to Complete		98,000								
Less FY06 Hurricane Supplemental		48,200		61,900		32,200		42,300		
Less Advance Procurement FY98		2,394								
Less Advance Procurement FY99		979		3,687		2,708				
Less Advance Procurement FY01		244,960		70,800		77,000		60,000		
Less Advance Procurement FY02				64,442		50,000				
Less FY06 Transfer		4,237								
NET P-1 LINE ITEM:		2,951,758		2,281,741		3,193,028		3,428,284		147,447

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

BUDGET ACTIVITY: 2	**P-1 LINE ITEM NOMENCLATURE**	**SUBHEAD NO. 1224 BLI: 2122**
Other Warships	**DDG-51**	

	FY 2007		**FY 2008**		**FY 2009**	
ELEMENT OF COST	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**
PLAN COSTS		106,130		12,169		
BASIC CONST/CONVERSION		16,463		35,573		
OTHER COST		56,984				
ORDNANCE		174,770				
TOTAL SHIP ESTIMATE		354,347		47,742		0
NET P-1 LINE ITEM:		354,347		47,742		

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimate - Basic/Escalation

Ship Type: DDG

I.	Design/Schedule	Start/Issue	Complete /Response	Reissue	Complete /Response
	Issue date for TLR	8/85			
	Issue date for TLS				
	Preliminary Design	2/81	2/83		
	Contract Design	3/83	3/84		
	Detail Design				
	Request for Proposals				
	Design Agent	BIW			
II.	Classification of Cost Estimate	CLASS C BUDGET ESTIMATE			

III.	Basic Construction/Conversion	FY 2002-2005	FY 2006	FY 2007	FY 2008
	A. Actual Award Date	09/02	N/A	N/A	N/A
	B. Contract Type (and Share Line if applicable)	MULTIYEAR PROCUREMENT /FIXED PRICE INCENTIVE	N/A	N/A	N/A

IV.	Escalation	
	Escalation Termination Date	
	Escalation Requirement	SHIPBUILDING CONTRACTS ARE FORWARD PRICED.
	Labor/Material Split	
	Allowable Overhead Rate	
	BASE DATE	

V.	Other Basic(Reserves/Miscellaneous)	Amount

SHIPBUILDING AND CONVERSION, NAVY
SHIP PRODUCTION SCHEDULE

SHIP TYPE	HULL NUMBER	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
DDG	103	NGSS	02	SEP-02	MAY-04	OCT-08
DDG	104	BIW	02	SEP-02	OCT-04	FEB-08
DDG	105	NGSS	03	SEP-02	APR-05	APR-09
DDG	106	BIW	03	SEP-02	MAY-05	AUG-08
DDG	107	NGSS	04	SEP-02	FEB-06	FEB-10
DDG	108	BIW	04	SEP-02	DEC-05	MAY-09
DDG	109	BIW	04	SEP-02	JUL-06	JAN-10
DDG	110	NGSS	05	SEP-02	MAY-07	SEP-10
DDG	111	BIW	05	SEP-02	APR-07	AUG-10
DDG	112	BIW	05	SEP-02	FEB-08	APR-11

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type: DDG-51 AEGIS DESTROYERS	FY 2006		FY 2007		FY 2008		FY 2009	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST
ELECTRONICS								
a. P-35 Items								
Subtotal		0		0		0		0
b. Major Items								
Subtotal		0		0		0		0
c. Other ELECTRONICS								
Subtotal		0		0		0		0
Total ELECTRONICS		0		0		0		0

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type: DDG-51 AEGIS DESTROYERS	FY 2006		FY 2007		FY 2008		FY 2009	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST
HM&E								
a. P-35 Items								
	0	0	0	0	0	0	0	0
Subtotal		0		0		0		0
b. Major Items								
Subtotal		0		0		0		0
c. Other HM&E								
	0	0	0	0	0	0	0	0
Subtotal		0		0		0		0
Total HM&E		0		0		0		0

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type: DDG-51 AEGIS DESTROYERS	FY 2006		FY 2007		FY 2008		FY 2009	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST
ORDNANCE								
a. P-35 Items								
1. AEGIS WEAPON SYSTEM (MK-7)	0	54,483	0	108,621	0	0	0	0
2. VLS MK 41	0	0	0	0	0	0	0	0
Subtotal		54,483		108,621		0		0
b. Major Items								
Subtotal		0		0		0		0
c. Other ORDNANCE								
	0	42,207	0	66,149	0	0	0	0
Subtotal		42,207		66,149		0		0
Total ORDNANCE		96,690		174,770		0		0

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

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

Ship Type: **DDG-51 AEGIS DESTROYERS**
Equipment Item: **1. AEGIS WEAPON SYSTEM (MK-7)**
PARM Code:

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

AEGIS is a fast reaction, high firepower, all weather weapon system incorporating a high degree of system availability and effectiveness. It consists of a multi-function phase/plane array radar, high powered illuminators, advanced missile guidance and fully digitizalized and integrated combat ship control for radar, weapons and command and decision. An Operational Readiness Test System performs continuous on-line assessment and fault detection. The introduction of Baseline 7 Phase I in FY98 (DDG 91) includes the SPY-1D(V) radar variant. This upgrade incorporates littoral warfare improvements.

II. CURRENT FUNDING:

P-35 Category	FY 2006		FY 2007		FY 2008		FY 2009	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST
System Integration	0	54,483	0	98,662	0	0	0	0
Technical Support Services		0		9,959		0		0
Total		54,483		108,621		0		0

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE

V. COMPETITION/SECOND SOURCE INITIATIVES:

NOTE:

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

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

Ship Type: **DDG-51 AEGIS DESTROYERS**
Equipment Item: **2. VLS MK 41**
PARM Code:

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The VLS is a Missile Launching System which provides Surface Combatants with a launcher to carry, prepare for launch and fire, Anti-Air Warfare, Strike/Surface Warfare, and Anti-Submarine Warfare weapons. The Flight IIA MK-41 VLS Launchers consist of twelve modules comprised of eight cells each.

II. CURRENT FUNDING:

P-35 Category	FY 2006		FY 2007		FY 2008	
	QTY	COST	QTY	COST	QTY	COST

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE

V. COMPETITION/SECOND SOURCE INITIATIVES:

NOTE:

CLASSIFICATION: UNCLASSIFIED

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

DATE: February 2008

APPROPRIATION/BUDGET ACTIVITY
SHIPBUILDING AND CONVERSION, NAVY/BA 2 Other Warships

P-1 LINE ITEM NOMENCLATURE
LITTORAL COMBAT SHIP (LCS)
BLI: 2127 / SUBHEAD NO. 1281

(Dollars in Millions)	PRIOR YR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TO COMP	TOTAL PROG
QUANTITY	0.0	0.0	1.0	2.0	3.0	3.0	4.0	6.0	34.0	53.0
End Cost	500.0	93.0	337.1	920.0	1,379.5	1,379.6	1,839.9	2,760.2	20,074.0	29,283.3
Less FY 2006 Omnibus	66.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.0
Full Funding TOA	434.0	93.0	337.1	920.0	1,379.5	1,379.6	1,839.9	2,760.2	20,074.0	29,217.3
Total Obligational Authority	434.0	93.0	337.1	920.0	1,379.5	1,379.6	1,839.9	2,760.2	20,074.0	29,217.3
Plus Outfitting / Plus Post Delivery	0.0	0.0	0.0	0.0	0.6	39.9	76.7	103.5	492.6	719.1
Plus FY 2006 Omnibus	66.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.0
Total	500.0	93.0	337.1	920.0	1,380.1	1,419.5	1,916.6	2,863.7	20,566.6	30,002.4
Unit Cost (Ave. End Cost)	0.0	0.0	337.1	460.0	459.8	459.9	460.0	460.0	590.4	552.5

MISSION:

Provides for the design, construction, integration and testing of the Littoral Combat Ship (LCS). LCS will be a fast, agile, and networked surface combatant with capabilities optimized to defeat asymmetric threats, and assure naval and joint force access into contested littoral regions. It will use open-systems-architecture design, modular weapons, and sensor systems, and a variety of manned and unmanned vehicles to expand the battlespace and project offensive power into the littoral. LCS will operate with focused-mission packages that deploy manned and unmanned vehicles to execute a variety of missions, including littoral anti-submarine warfare (ASW), anti-surface warfare (SUW), and mine countermeasures (MIW). LCS will also possess inherent capabilities, regardless of mission package installed, including intelligence, surveillance, reconnaissance (ISR), homeland defense, Maritime Interdiction/Interception Operations (MIO), anti-terrorism/force protection (AT/FP), air self-defense, joint littoral mobility, and Special Operating Forces (SOF) and logistic support for movement of personnel and supplies. This relatively small, high-speed surface combatant will compliment the U.S. Navy's AEGIS fleet, DDG 1000, and CG(X) by operating in environments where it is less desirable to employ larger, multi-mission ships. It will have the capability to deploy independently to overseas littoral regions, remain on station for extended periods of time either with a battle group or through a forward-basing arrangement and will be capable of underway replenishment. It will operate with Carrier Strike Groups, Surface Action Groups, in groups of other similar ships, or independently for diplomatic and presence missions. Additionally, it will have the capability to operate cooperatively with the U.S. Coast Guard and Allies.

	FY06	FY06	FY07	FY08	FY09	FY09
Production Status:	LCS 3	LCS 4		LCS 5	LCS 6	LCS 7
Contract Award Date	Terminated	Terminated	FY07 Funding	8/08	6/09	6/09
Months to Completion	for	for	to be used			
a) Contract Award to Delivery	convenience	convenience	to finance	39 months	41 months	43 months
b) Construction Start to Delivery	12 Apr 07	1 Nov 07	LCS 1,2	32 months	32 months	32 months
Delivery Date			shortfalls	11/11	11/12	01/13
Completion of Fitting Out				02/12	02/13	04/13
Obligation Work Limiting Date				01/13	01/14	03/14

Characteristics:	LM	GD	Armament:	Sensors:
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

Notes:

1. The FY08 Budget of $337.1M does not fully fund procurement of an LCS ship; however, the FY08 Appropriations Act appropriates funding and authorizes use of material/funding from the FY06 terminated ships in conjunction with the FY08 funding to procure an LCS in FY08.

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

BUDGET ACTIVITY: 2	**P-1 LINE ITEM NOMENCLATURE**	**SUBHEAD NO. 1281 BLI: 2127**
Other Warships	**LITTORAL COMBAT SHIP (LCS)**	

	FY 2006		**FY 2007**		**FY 2008**		**FY 2009**	
ELEMENT OF COST	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**
PLAN COSTS					1		2	25,000
BASIC CONST/CONVERSION		458,309				337,106		798,095
CHANGE ORDERS		20,000						39,905
ELECTRONICS								36,000
PROPULSION EQUIPMENT		8,698						
OTHER COST		13,000						21,000
NET P-1 LINE ITEM:		500,007				337,106		920,000

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimate - Basic/Escalation

Ship Type: LITTORAL COMBAT SHIP

I.	Design/Schedule	Start/Issue	Complete /Response	Reissue	Complete /Response	
	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	N/A	N/A	
	Contract Design	5/04	12/04	N/A	N/A	
	Detail Design	12/04	6/07	N/A	N/A	
	Request for Proposals	N/A	N/A	N/A	N/A	
	Design Agent	LOCKHEED MARTIN	LOCKHEED MARTIN	N/A	N/A	
II.	Classification of Cost Estimate	FY07 & OUT - CLASS C BUDGET ESTIMATE				
III.	Basic Construction/Conversion	2006	2007	2008	2009	2009
	A. Actual Award Date	12/06	N/A	8/08	6/09	6/09
	B. Contract Type (and Share Line if applicable)	CPIF/AF	N/A	TBD	TBD	TBD
IV.	Escalation					
	Escalation Termination Date					
	Escalation Requirement					
	Labor/Material Split					
	Allowable Overhead Rate					
V.	Other Basic(Reserves/Miscellaneous)	Amount				

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimate - Basic/Escalation

Ship Type: LITTORAL COMBAT SHIP

I.	Design/Schedule	Start/Issue	Complete /Response	Reissue	Complete /Response	
	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	N/A	N/A	
	Contract Design	5/04	10/05	N/A	N/A	
	Detail Design	10/05	10/07	N/A	N/A	
	Request for Proposals	N/A	N/A	N/A	N/A	
	Design Agent	GENERAL DYNAMICS	GENERAL DYNAMICS	N/A	N/A	
II.	Classification of Cost Estimate	FY07 & OUT - CLASS C BUDGET ESTIMATE				
III.	Basic Construction/Conversion	2006	2007	2008	2009	2009
	A. Actual Award Date	12/06	N/A	8/08	6/09	6/09
	B. Contract Type (and Share Line if applicable)	CPIF/AF	N/A	TBD	TBD	TBD
IV.	Escalation					
	Escalation Termination Date					
	Escalation Requirement					
	Labor/Material Split					
	Allowable Overhead Rate					
V.	Other Basic(Reserves/Miscellaneous)	Amount				

SHIPBUILDING AND CONVERSION, NAVY
SHIP PRODUCTION SCHEDULE

EXHIBIT P-27
FY 2009 President's Budget
DATE:
February 2008

SHIP TYPE	HULL NUMBER	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
LCS 3	602	LOCKHEED MARTIN	06	JUN-06		
LCS 4	603	GENERAL DYNAMICS	06	DEC-06		
LCS 5	801	TBD	08	AUG-08	MAR-09	NOV-11
LCS 6	901	TBD	09	JUN-09	MAR-10	NOV-12
LCS 7	902	TBD	09	JUN-09	MAY-10	JAN-13
LCS 8	1001	TBD	10	NOV-09	AUG-10	APR-13
LCS 9	1002	TBD	10	NOV-09	OCT-10	JUN-13
LCS 10	1003	TBD	10	NOV-09	DEC-10	AUG-13
LCS 11	1101	TBD	11	NOV-10	AUG-11	APR-14
LCS 12	1102	TBD	11	NOV-10	OCT-11	JUN-14
LCS 13	1103	TBD	11	NOV-10	DEC-11	AUG-14
LCS 14	1201	TBD	12	NOV-11	AUG-12	APR-15
LCS 15	1202	TBD	12	NOV-11	OCT-12	JUN-15
LCS 16	1203	TBD	12	NOV-11	DEC-12	AUG-15
LCS 17	1204	TBD	12	NOV-11	FEB-13	OCT-15
LCS 18	1301	TBD	13	NOV-12	AUG-13	APR-16
LCS 19	1302	TBD	13	NOV-12	OCT-13	JUN-16
LCS 20	1303	TBD	13	NOV-12	DEC-13	AUG-16
LCS 21	1304	TBD	13	NOV-12	FEB-14	OCT-16
LCS 22	1305	TBD	13	NOV-12	APR-14	DEC-16
LCS 23	1306	TBD	13	NOV-12	JUN-14	FEB-17

1. LCS 3 terminated for convenience 12 Apr 07
2. LCS 4 terminated for convenience 1 Nov 07

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type: LITTORAL COMBAT SHIP	FY 2007		FY 2008		FY 2009	
	QTY	COST	QTY	COST	QTY	COST
ELECTRONICS						
a. P-35 Items						
AN/WSC-6E(V)9 SHF	0	0	0	0	2	7,828
SEARAM	0	0	0	0	1	8,711
Subtotal		0		0		16,539
b. Major Items						
EKMS/CRYPTO SYSTEM	0	0	0	0	2	1,108
CDLMS W/CDLMS SOFTWARE VERSION 3.X	0	0	0	0	1	742
AN/URC-141 (C) MIDS ON SHIP (MOS)	0	0	0	0	2	4,171
AN/SYQ-26(V)4 NAVMACS II/SMS	0	0	0	0	1	273
AN/SYQ-26(V)3 NAVMACS II/SMS	0	0	0	0	1	409
AUTOMATED DIGITAL NETWORK SYSTEM (ADNS)	0	0	0	0	2	1,099
AN/SSR-1 FLEET BROADCAST	0	0	0	0	2	238
AN/USQ-172(V)5 GCCS-M/COMPOSE	0	0	0	0	2	2,370
NAVY TACTICAL COMMAND SUPPORT SYSTEM (NTCSS)	0	0	0	0	2	489
NAVY INTEGRATED TACTICAL ENVIRONMENTAL SUBSYSTEM (NITES)	0	0	0	0	1	146
CHEMICAL/BIOLOGICAL/RADIOLOGICAL WARFARE EQUIPMENT	0	0	0	0	2	337
AN/PDR-65A RADIAC SET	0	0	0	0	2	6
VLA LIGHTING	0	0	0	0	1	157
WAVE OFF LIGHTING SYSTEM (WOLS)	0	0	0	0	2	138
STABILIZED GLIDE SLOPE INDICATOR (SGSI)	0	0	0	0	2	604
FLIGHT DECK STATUS AND SIGNALING SYSTEM (FDSSS)	0	0	0	0	2	250
SMALL PULPER	0	0	0	0	2	256
WLD-1 RADIO RACKS (MVCS)	0	0	0	0	2	2,224
WEAPONS MODULE COVERS (3 PER SHIP)	0	0	0	0	6	311
ADS/MMR COMMS PROJECTION	0	0	0	0	2	2,000
NETFIRES	0	0	0	0	2	2,000
ORDNANCE HANDLING EQUIPMENT	0	0	0	0	0	133
Subtotal		0		0		19,461
c. Other ELECTRONICS						

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type: LITTORAL COMBAT SHIP	FY 2007		FY 2008		FY 2009	
	QTY	COST	QTY	COST	QTY	COST
	0	0	0	0	0	0
Subtotal		0		0		0
Total ELECTRONICS		0		0		36,000

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

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

Ship Type: **LITTORAL COMBAT SHIP**
Equipment Item: **SEARAM**
PARM Code: **WA**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The SeaRAM Anti-Ship Missile Defense System is a derivative of the key attributes of both the Phalanx Block 1B system and the Rolling Airframe Missile (RAM) Guided Missile System. SeaRAM is designed to extend the inner layer battle space and enable the ship to effectively engage multiple high-performance supersonic and subsonic threats.

II. CURRENT FUNDING:

P-35 Category	FY 2007		FY 2008		FY 2009	
	QTY	COST	QTY	COST	QTY	COST
Major Hardware	0	0	0	0	1	6,635
Ancillary Equipment		0		0		240
Technical Data and Documentation		0		0		40
Spares		0		0		125
System Engineering		0		0		711
Technical Engineering Services		0		0		533
Other Costs		0		0		427
Total		0		0		8,711

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY08	LCS 5 802	RAYTHEON	TBD	AUG-08		0	0
FY09	LCS 6/7 901	RAYTHEON	TBD	JUN-09		1	6,635

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY08	LCS 5 802	NOV-11	10	20	MAY-09
FY09	LCS 6/7 901	NOV-12	10	20	MAY-10

V. COMPETITION/SECOND SOURCE INITIATIVES:

Current sole-source initiatives

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

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

Ship Type: **LITTORAL COMBAT SHIP**
Equipment Item: **AN/WSC-6E(V)9 SHF**
PARM Code: **E8**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The AN/WSC-6E(V)9 Super High Frequency (SHF) radio provides joint interoperable high capability voice, data, and video communications for combatants and Flag-capable ships. It provides the required global connectivity among Fleet units, joint forces, allied and NATO forces, and Naval C4I commands.

II. CURRENT FUNDING:

P-35 Category	FY 2007		FY 2008		FY 2009	
	QTY	COST	QTY	COST	QTY	COST
Major Hardware	0	0	0	0	2	7,284
Spares		0		0		111
Engr/ILS/Mgmt Spt		0		0		200
Technical Support Services		0		0		233
Total		0		0		7,828

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY08	LCS 5	Harris	TBD	JUN-08		0	0
FY09	LCS 6/7	Harris	TBD	JUN-09		2	3,642

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY08	LCS 5	NOV-11	10	20	MAY-09
FY09	LCS 6/7	NOV-12	10	20	MAY-10

V. COMPETITION/SECOND SOURCE INITIATIVES:

current sole-source contracts

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

DATE: February 2008

APPROPRIATION/BUDGET ACTIVITY
SHIPBUILDING AND CONVERSION, NAVY/BA 3 Amphibious Ships

P-1 LINE ITEM NOMENCLATURE
LPD-17
BLI: 3036 / SUBHEAD NO. 8317/2317/2316

(Dollars in Millions)	PRIOR YR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TO COMP	TOTAL PROG
QUANTITY	8	0	1	0	0	0	0	0	0	9
End Cost	11,533.9	0.0	1,781.6	0.0	0.0	0.0	0.0	0.0	0.0	13,315.5
Less Advance Procurement	864.8	0.0	296.2	0.0	0.0	0.0	0.0	0.0	0.0	1,161.0
Less Cost to Complete	1,690.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,690.0
Less Transfer/Supplemental	251.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	251.0
Less Hurricane Supplemental	1,438.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,438.2
Less Program Closeout	0.0	0.0	103.2	0.0	0.0	0.0	0.0	0.0	0.0	103.2
Full Funding TOA	7,289.9	0.0	1,382.2	0.0	0.0	0.0	0.0	0.0	0.0	8,672.1
Plus Advance Procurement	864.8	296.2	49.7	0.0	0.0	0.0	0.0	0.0	0.0	1,210.7
Plus Cost to Complete	1,454.5	83.4	66.0	0.0	0.0	0.0	0.0	0.0	0.0	1,603.9
Plus Transfer/Supplemental	251.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	251.0
Plus Hurricane Supplemental	1,438.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,438.2
Plus Program Closeout	0.0	0.0	0.0	103.2	0.0	0.0	0.0	0.0	0.0	103.2
Total Obligational Authority	11,298.4	379.6	1,497.8	103.2	0.0	0.0	0.0	0.0	0.0	13,279.0
Plus Cost to Complete	0.0	0.0	0.0	33.1	34.4	18.6	0.0	0.0	0.0	86.1
Plus Outfitting / Plus Post Delivery	238.3	90.2	92.8	70.6	76.5	88.2	60.8	12.2	0.0	729.6
Plus Hurricane Supplemental (OF & PD)	28.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.4
Total	11,565.1	469.8	1,590.6	206.9	110.9	106.8	60.8	12.2	0.0	14,123.1
Unit Cost (Ave. End Cost)	1,441.7	0.0	1,781.6	0.0	0.0	0.0	0.0	0.0	0.0	1,479.5

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')
Beam	31.9M (105')
Displacement	25.3L MT (24.9K LT)
Draft	7M (23')

PRODUCTION STATUS:

Contract Plans	
Award Planned (Month)	December 2007
Months to Complete	
a) Award to Delivery	50
b) Const. Start to Delivery	47
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.

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

BUDGET ACTIVITY: 3	**P-1 LINE ITEM NOMENCLATURE**	**SUBHEAD NO. 8317/2317/2316 BLI: 3036**
Amphibious Ships	**LPD-17**	

	FY 2000		**FY 2003**		**FY 2004**		**FY 2005**		**FY 2006**	
ELEMENT OF COST	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**
PLAN COSTS	2		1		1		1		1	
BASIC CONST/CONVERSION		2,192,754		1,145,442		1,215,386		1,232,075		1,272,639
CHANGE ORDERS		47,030		20,900		18,385		18,409		29,081
ELECTRONICS		221,968		165,783		137,723		105,641		141,549
HM&E		42,122		41,275		36,063		5,571		41,448
OTHER COST		4,425		11,264		5,065		5,000		5,000
ORDNANCE		96,616		52,044		41,400		43,849		48,888
TOTAL SHIP ESTIMATE		2,604,915		1,436,708		1,454,022		1,410,545		1,538,605
LESS:										
Less Hurricane Supplemental		442,930		263,260		190,760		206,810		186,750
LESS: Advance Procurement (FY 01)				402,756		63,749		7,184		6,865
LESS: Advance Procurement (FY 02)				154,249						
LESS: Advance Procurement (FY 04)								133,939		
LESS: FY 03 COST TO COMPLETE		187,000								
LESS: FY 04 COST TO COMPLETE		112,778								
LESS: FY 05 COST TO COMPLETE		171,681								
LESS: FY 06 COST TO COMPLETE		93,852								
LESS: FY 07 COST TO COMPLETE		66,049						17,400		
LESS: FY 08 COST TO COMPLETE								65,999		
LESS: FY 09 COST TO COMPLETE				33,082						
LESS: FY 10 COST TO COMPLETE						16,844		17,506		
LESS: FY 11 COST TO COMPLETE										18,565
NET P-1 LINE ITEM:		1,530,625		583,361		1,182,669		961,707		1,326,425

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

BUDGET ACTIVITY: 3	**P-1 LINE ITEM NOMENCLATURE**	**SUBHEAD NO. 8317/2317/2316 BLI: 3036**
Amphibious Ships	**LPD-17**	

	FY 2008	
ELEMENT OF COST	**QTY**	**COST**
PLAN COSTS	1	
BASIC CONST/CONVERSION		1,267,759
CHANGE ORDERS		56,645
ELECTRONICS		215,755
HM&E		51,951
OTHER COST		9,963
ORDNANCE		76,339
PROGRAM CLOSEOUT		103,216
TOTAL SHIP ESTIMATE		1,781,628
LESS:		
Less Program Closeout		103,216
LESS: Advance Procurement (FY 07)		296,236
NET P-1 LINE ITEM:		1,382,176

P-5B Exhibit

SHIPBUILDING AND CONVERSION, NAVY

FY 2009 President's Budget

Analysis of Ship Cost Estimate - Basic/Escalation

DATE:

Ship Type: LPD 17

February 2008

I.	Design/Schedule	Start/Issue	Complete /Response	Reissue	Complete /Response			
	Issue date for TLR		SEP 1988					
	Issue date for TLS							
	Preliminary Design	JAN 1993	NOV 1993					
	Contract Design	DEC 1993	MAR 1996					
	Detail Design	DEC 1996	JUL 2002					
	Request for Proposals							
	Design Agent							
II.	Classification of Cost Estimate	CLASS C						
III.	Basic Construction/Conversion	FY00 (001)	FY00 (002)	FY03 (001)	FY04 (001)	FY05 (001)	FY06 (001)	FY08 (001)
	A. Actual Award Date	FEB 2000	MAY 2000	NOV 2003	JUN 2006	JUN 2006	NOV 2006	DEC 2007
	B. Contract Type (and Share Line if applicable)	CPIF	CPIF	CPIF	FPIF/AF	FPIF/AF	FPIF/AF	FPIF/AF
	C. RFP Response Date	JUN 1996	OCT 1999	JAN 2003	MAY 2004	MAY 2004	JUN 2005	JUN 2006
IV.	Escalation							
	Escalation Termination Date							
	Escalation Requirement							
	Labor/Material Split							
	Allowable Overhead Rate							
	BASE DATE	FORWARD PRICED	FORWARD PRICED	FORWARD PRICED	FORWARD PRICED	FORWARD PRICED	FORWARD PRICED	FORWARD PRICED
V.	Other Basic(Reserves/Miscellaneous)	Amount						

SHIPBUILDING AND CONVERSION, NAVY
SHIP PRODUCTION SCHEDULE

SHIP TYPE	HULL NUMBER	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
LPD 0002	LPD 20	NGSS	2000	MAY-00	OCT-02	OCT-08
LPD 0301	LPD 21	NGSS	2003	NOV-03	MAR-04	JUN-09
LPD 0401	LPD 22	NGSS	2004	JUN-06	JUL-06	AUG-10
LPD 0501	LPD 23	NGSS	2005	JUN-06	MAR-07	FEB-11
LPD 0601	LPD 24	NGSS	2006	NOV-06	AUG-07	AUG-11
LPD 0801	LPD 25	NGSS	2008	DEC-07	APR-08	FEB-12

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type: LPD 17	FY 2000		FY 2003		FY 2004		FY 2005		FY 2006	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
ELECTRONICS										
a. P-35 Items										
C4ISR	2	106,059	1	59,201	1	63,556	1	53,053	1	60,424
SSDS MARK 2	2	54,702	1	18,733	1	18,800	1	18,010	1	27,137
CEC (FY00 INCLUDED IN SSDS MK2)	0	0	1	6,844	1	7,010	1	7,561	1	6,751
MK 12 AIMS IFF	2	12,106	1	5,455	1	5,316	1	6,165	1	6,896
AN/SLQ-32(V)2 (REFURB)	2	6,748	1	5,165	1	5,797	1	5,635	1	5,571
BATTLE FORCE TACTIVAL TRAINER	2	5,706	1	4,386	1	3,347	1	4,135	1	4,119
Subtotal		185,321		99,784		103,826		94,559		110,898
b. Major Items										
NULKA	2	2,386	1	1,256	1	1,427	1	1,411	1	1,529
AMPHIB ASSAULT DIR SYSTEM	2	5,815	1	3,460	1	3,536	0	3,102	1	2,965
NIXIE	2	1,166	1	579	1	1,146	1	1,146	1	902
RADIAC	2	80	1	36	1	32	1	33	1	33
SSSE INC E (CFE TO GFE IN FY03)	0	0	1	526	1	477	1	477	1	493
AN/SPQ-14(FY00 INCLUDED IN SSDS MK2)	2	1,451	1	966	1	1,812	1	1,041	1	1,082
DOPPLAR SONAR VELOCITY LOG SYS. (CFE TO GFE IN FY05)	0	0	0	0	0	0	1	717	1	717
AN/UQN-4(FATHOMETE)	0	0	1	190	1	190	1	199	1	203
AN/WSN-7(RLGN)	0	253	0	0	1	2,327	1	2,675	1	4,029
DCAMS	0	0	0	0	0	0	0	0	0	0
Subtotal		11,151		7,013		10,947		10,801		11,953
c. Other ELECTRONICS										
MISCELLANEOUS ELECTRONICS	0	25,496	0	58,986	0	22,950	0	281	0	18,698
Subtotal		25,496		58,986		22,950		281		18,698
Total ELECTRONICS		221,968		165,783		137,723		105,641		141,549

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type: LPD 17

	FY 2008 QTY	FY 2008 COST
ELECTRONICS		
a. P-35 Items		
C4ISR	1	70,776
SSDS MARK 2	1	25,139
CEC (FY00 INCLUDED IN SSDS MK2)	1	6,918
MK 12 AIMS IFF	1	6,781
AN/SLQ-32(V)2 (REFURB)	1	5,792
BATTLE FORCE TACTICAL TRAINER	1	4,685
Subtotal		120,091
b. Major Items		
NULKA	1	1,601
AMPHIB ASSAULT DIR SYSTEM	1	2,833
NIXIE	1	1,140
RADIAC	1	33
SSSE INC E (CFE TO GFE IN FY03)	1	502
AN/SPQ-14(FY00 INCLUDED IN SSDS MK2)	1	1,182
DOPPLAR SONAR VELOCITY LOG SYS. (CFE TO GFE IN FY05)	1	717
AN/UQN-4(FATHOMETE)	1	215
AN/WSN-7(RLGN)	1	4,438
DCAMS	0	0
Subtotal		12,661
c. Other ELECTRONICS		
MISCELLANEOUS ELECTRONICS	0	83,003
Subtotal		83,003
Total ELECTRONICS		215,755

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type: LPD 17	FY 2000		FY 2003		FY 2004		FY 2005		FY 2006	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
HM&E										
a. P-35 Items										
Subtotal		0		0		0		0		0
b. Major Items										
BOATS	6	1,779	3	968	3	918	3	918	3	937
CCTV, SITE 400	2	650	1	359	1	376	1	381	1	385
TRUCK, FORKLIFT	28	1,573	14	929	14	948	14	983	14	989
CHEMICAL WARFARE DETECTOR	2	107	1	177	1	201	1	183	1	93
MILITARY PAYROLL SYSTEM (NAVY CASH SYSTEM & NSIPS)	0	0	1	686	1	575	1	696	1	653
INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS)	0	0	1	406	1	346	1	270	1	280
OILY WATER SEPARATOR	1	16	1	8	1	232	1	216	1	221
PLASTIC WASTE PROCESSING EQP	1	213	1	189	1	228	0	224	1	224
Subtotal		4,338		3,722		3,824		3,871		3,782
c. Other HM&E										
MISCELLANEOUS HM&E	0	37,784	0	37,553	0	32,239	0	1,700	0	37,666
Subtotal		37,784		37,553		32,239		1,700		37,666
Total HM&E		42,122		41,275		36,063		5,571		41,448

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type: LPD 17

	FY 2008 QTY	FY 2008 COST
HM&E		
a. P-35 Items		
Subtotal		0
b. Major Items		
BOATS	3	1,011
CCTV, SITE 400	3	399
TRUCK, FORKLIFT	14	1,018
CHEMICAL WARFARE DETECTOR	1	195
MILITARY PAYROLL SYSTEM (NAVY CASH SYSTEM & NSIPS)	1	743
INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS)	1	448
OILY WATER SEPARATOR	1	227
PLASTIC WASTE PROCESSING EQP	1	224
Subtotal		4,265
c. Other HM&E		
MISCELLANEOUS HM&E	0	47,686
Subtotal		47,686
Total HM&E		51,951

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type: LPD 17	FY 2000		FY 2003		FY 2004		FY 2005		FY 2006	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
ORDNANCE										
a. P-35 Items										
RAM MISSLE SYSTEM	4	40,594	2	23,894	2	12,663	2	19,074	2	19,106
AN/SPS--48E	2	19,690	1	13,325	1	15,550	1	13,643	1	13,534
SPQ-9B	2	13,032	1	6,573	1	6,911	1	7,711	1	7,729
Subtotal		73,316		43,792		35,124		40,428		40,369
b. Major Items										
50 CAL MACHINE GUN	0	0	0	0	0	0	0	0	0	0
FLIGHT CNTRL & INSTRUMENT LANDING SYS WITH HELICOPTER OPERATIONS SURVEILLANCE SYS AND DYNAMIC INTERFACE TEST	2	1,118	1	740	1	1,525	1	1,478	1	1,353
MK46 GUN BARRELS	4	1,563	2	1,138	2	2,024	2	1,020	2	732
ORDNACE HANDLING EQUIPMENT	2	720	0	368	0	350	1	360	0	360
MORIAH WIND SYSTEM	0	0	0	0	1	544	1	563	1	581
AN/SPS-73	0	0	0	0	0	0	0	0	0	2,842
Subtotal		3,401		2,246		4,443		3,421		5,868
c. Other ORDNANCE										
MISCELLANEOUS ORDNANCE	0	19,899	0	6,006	0	1,833	0	0	0	2,651
Subtotal		19,899		6,006		1,833		0		2,651
Total ORDNANCE		96,616		52,044		41,400		43,849		48,888

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type: LPD 17	FY 2008	
	QTY	COST
ORDNANCE		
a. P-35 Items		
RAM MISSLE SYSTEM	2	28,159
AN/SPS--48E	1	15,265
SPQ-9B	1	8,017
Subtotal		51,441
b. Major Items		
50 CAL MACHINE GUN	0	0
FLIGHT CNTRL & INSTRUMENT LANDING SYS WITH HELICOPTER OPERATIONS SURVEILLANCE SYS AND DYNAMIC INTERFACE TEST	1	1,406
MK46 GUN BARRELS	2	811
ORDNACE HANDLING EQUIPMENT	0	427
MORIAH WIND SYSTEM	1	598
AN/SPS-73	0	2,842
Subtotal		6,084
c. Other ORDNANCE		
MISCELLANEOUS ORDNANCE	0	18,814
Subtotal		18,814
Total ORDNANCE		76,339

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

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

Ship Type: **LPD 17**
Equipment Item: **C4ISR**
PARM Code:

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

To prove the link between the ship, the command hierarchy and other units of the operating forces.

II. CURRENT FUNDING:

P-35 Category	FY 2000		FY 2003		FY 2004		FY 2005		FY 2006	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
Major Hardware	2	43,346	1	29,914	1	29,823	1	27,155	1	31,300
Spares		872		1,507		1,357		962		971
Ancillary Equipment		2,445		415		425		501		514
Documentation and Systems Engineering		6,581		705		3,102		1,612		2,848
Software		0		750		578		571		619
Techincal Engineering		2,931		2,710		2,783		3,178		3,174
Other Appropriate Costs		13,064		5,106		4,857		4,938		4,377
Turnkey		36,820		18,094		20,631		14,136		16,621
Total		106,059		59,201		63,556		53,053		60,424

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE

V. COMPETITON/SECOND SOURCE INITIATIVES:

NOTE:

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

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

Ship Type: **LPD 17**
Equipment Item: **C4ISR**
PARM Code:

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

To prove the link between the ship, the command hierarchy and other units of the operating forces.

II. CURRENT FUNDING:

P-35 Category	**FY 2008**	
	QTY	**COST**
Major Hardware	1	35,589
Spares		1,073
Ancillary Equipment		500
Documentation and Systems Engineering		2,896
Software		1,140
Techincal Engineering		3,257
Other Appropriate Costs		5,433
Turnkey		20,888
Total		70,776

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE

V. COMPETITON/SECOND SOURCE INITIATIVES:

NOTE:

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

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

Ship Type: **LPD 17**
Equipment Item: **SSDS MARK 2**
PARM Code:

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 FY00.

II. CURRENT FUNDING:

P-35 Category	FY 2000		FY 2003		FY 2004		FY 2005		FY 2006	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
Major Hardware	2	28,813	1	11,250	1	11,249	1	11,250	1	12,530
Systems Engineering		4,356		1,833		937		600		741
Technical Data and Documentation		4,122		1,102		0		0		0
Technical Engineering		804		402		402		402		402
Spares		797		808		587		587		587
Other Appropriate Costs		15,810		3,338		5,625		5,171		12,877
Total		54,702		18,733		18,800		18,010		27,137

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE

V. COMPETITON/SECOND SOURCE INITIATIVES:

NOTE:

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

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

Ship Type: **LPD 17**
Equipment Item: **SSDS MARK 2**
PARM Code:

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 FY00.

II. CURRENT FUNDING:

P-35 Category	**FY 2008**	
	QTY	**COST**
Major Hardware	1	10,650
Systems Engineering		600
Technical Data and Documentation		0
Technical Engineering		402
Spares		587
Other Appropriate Costs		12,900
Total		25,139

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE

V. COMPETITON/SECOND SOURCE INITIATIVES:

NOTE:

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

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

Ship Type: **LPD 17**
Equipment Item: **CEC (FY00 INCLUDED IN SSDS MK2)**
PARM Code:

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

Cooperative Engagement Capability (CEC) coordinates all anti-warfare sensors ino single, real time, fire control quality composite track which improves battle force air defense.

FY00 CEC funding is included with SSDS Mark 2.

II. CURRENT FUNDING:

P-35 Category	FY 2000		FY 2003		FY 2004		FY 2005		FY 2006	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
Major Hardware	0	0	1	5,264	1	5,571	1	5,868	1	4,698
Systems Engineering		0		467		577		600		500
Technical Data and Documentation		0		35		37		40		0
Technical Engineering		0		205		216		216		300
Spares		0		395		314		395		395
Other Appropriate Costs		0		478		295		442		858
Total		0		6,844		7,010		7,561		6,751

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE

V. COMPETITON/SECOND SOURCE INITIATIVES:

NOTE:

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

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

Ship Type: **LPD 17**
Equipment Item: **CEC (FY00 INCLUDED IN SSDS MK2)**
PARM Code:

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

Cooperative Engagement Capability (CEC) coordinates all anti-warfare sensors ino single, real time, fire control quality composite track which improves battle force air defense.

FY00 CEC funding is included with SSDS Mark 2.

II. CURRENT FUNDING:

P-35 Category	**FY 2008**	
	QTY	**COST**
Major Hardware	1	4,888
Systems Engineering		500
Technical Data and Documentation		0
Technical Engineering		300
Spares		395
Other Appropriate Costs		835
Total		6,918

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE

V. COMPETITON/SECOND SOURCE INITIATIVES:

NOTE:

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

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

Ship Type: **LPD 17**
Equipment Item: **MK 12 AIMS IFF**
PARM Code:

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 ownership position and identification.

II. CURRENT FUNDING:

P-35 Category	FY 2000		FY 2003		FY 2004		FY 2005		FY 2006	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
Major Hardware	2	8,468	1	3,651	1	3,510	1	4,456	1	4,667
Ancillary Equipment		262		35		96		128		130
Systems Engineering		1,488		420		1,210		601		1,060
Technical Data and Documentation		34		273		0		0		0
Technical Engineering		204		238		55		195		195
Spares		936		308		65		65		94
Other Appropriate Costs		714		530		380		720		750
Total		12,106		5,455		5,316		6,165		6,896

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE

V. COMPETITON/SECOND SOURCE INITIATIVES:

NOTE:

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

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

Ship Type: **LPD 17**
Equipment Item: **MK 12 AIMS IFF**
PARM Code:

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 ownership position and identification.

II. CURRENT FUNDING:

P-35 Category	**FY 2008**	
	QTY	**COST**
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		635
Total		6,781

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE

V. COMPETITON/SECOND SOURCE INITIATIVES:

NOTE:

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

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

Ship Type: **LPD 17**
Equipment Item: **AN/SLQ-32(V)2 (REFURB)**
PARM Code:

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The AN/SLQ-32(V)2 is a passive electronics countermeasure system.

II. CURRENT FUNDING:

P-35 Category	FY 2000		FY 2003		FY 2004		FY 2005		FY 2006	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
Major Hardware	2	5,170	1	2,585	1	4,328	1	4,496	1	4,342
Ancillary Equipment		300		150		158		165		165
Systems Engineering		0		0		16		0		0
Technical Data and Documentation		12		6		6		6		6
Technical Engineering		580		315		327		17		17
Spares		156		85		132		137		137
Other Appropriate Costs		530		2,024		830		814		904
Total		6,748		5,165		5,797		5,635		5,571

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE

V. COMPETITON/SECOND SOURCE INITIATIVES:

NOTE:

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

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

Ship Type: **LPD 17**
Equipment Item: **AN/SLQ-32(V)2 (REFURB)**
PARM Code:

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The AN/SLQ-32(V)2 is a passive electronics countermeasure system.

II. CURRENT FUNDING:

P-35 Category	**FY 2008**	
	QTY	**COST**
Major Hardware	1	4,424
Ancillary Equipment		168
Systems Engineering		0
Technical Data and Documentation		7
Technical Engineering		17
Spares		140
Other Appropriate Costs		1,036
Total		5,792

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE

V. COMPETITON/SECOND SOURCE INITIATIVES:

NOTE:

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

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

Ship Type: **LPD 17**
Equipment Item: **BATTLE FORCE TACTIVAL TRAINER**
PARM Code:

I. DESCRIPTION/CHARACTERISTICS/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 Str. BFTT interfaces to and/or provides integrated training capability for the primary combat system elements onboard LPD 17 Class ships.

II. CURRENT FUNDING:

P-35 Category	FY 2000		FY 2003		FY 2004		FY 2005		FY 2006	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
Major Hardware	2	4,199	1	2,270	1	1,701	1	2,432	1	2,432
Systems Engineering		0		150		100		376		221
Technical Data and Documentation		342		350		0		0		0
Technical Engineering		575		400		420		428		433
Spares		0		0		26		26		26
Other Appropriate Costs		590		1,216		1,100		873		1,007
Total		5,706		4,386		3,347		4,135		4,119

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE

V. COMPETITON/SECOND SOURCE INITIATIVES:

NOTE:

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

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

Ship Type: **LPD 17**
Equipment Item: **BATTLE FORCE TACTIVAL TRAINER**
PARM Code:

I. DESCRIPTION/CHARACTERISTICS/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 Str. BFTT interfaces to and/or provides integrated training capability for the primary combat system elements onboard LPD 17 Class ships.

II. CURRENT FUNDING:

P-35 Category	**FY 2008**	
	QTY	**COST**
Major Hardware	1	2,600
Systems Engineering		407
Technical Data and Documentation		0
Technical Engineering		446
Spares		26
Other Appropriate Costs		1,206
Total		4,685

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE

V. COMPETITON/SECOND SOURCE INITIATIVES:

NOTE:

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

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

Ship Type: **LPD 17**
Equipment Item: **RAM MISSLE SYSTEM**
PARM Code:

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:

P-35 Category	FY 2000		FY 2003		FY 2004		FY 2005		FY 2006	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
Major Hardware	4	21,595	2	8,304	2	8,304	2	10,861	1	10,620
Ancillary Equipment		970		0		0		485		485
Systems Engineering		9,241		1,051		0		3,799		3,899
Technical Engineering		153		1,457		1,483		25		25
Spares		871		0		0		121		121
Other Appropriate Costs		7,764		13,082		2,876		3,783		3,956
Total		40,594		23,894		12,663		19,074		19,106

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE

V. COMPETITON/SECOND SOURCE INITIATIVES:

NOTE:

'** FY 03 LPD-21 includes $13,082 of canceled MYP material diverted to the carrier program (6,214) and excess material (6,868).

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

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

Ship Type: **LPD 17**
Equipment Item: **RAM MISSLE SYSTEM**
PARM Code:

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:

P-35 Category	**FY 2008**	
	QTY	**COST**
Major Hardware	1	15,747
Ancillary Equipment		1,191
Systems Engineering		6,096
Technical Engineering		25
Spares		121
Other Appropriate Costs		4,979
Total		28,159

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE

V. COMPETITON/SECOND SOURCE INITIATIVES:

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

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

Ship Type: **LPD 17**
Equipment Item: **AN/SPS--48E**
PARM Code:

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:

P-35 Category	**FY 2000**		**FY 2003**		**FY 2004**		**FY 2005**		**FY 2006**	
	QTY	**COST**	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**
Major Hardware	2	15,953	1	9,205	1	9,908	1	9,465	1	10,550
Ancillary Equipment		0		135		120		450		120
Systems Engineering		947		710		0		0		0
Technical Data and Documentation		129		150		35		35		0
Technical Engineering		128		532		415		415		415
Spares		1,036		400		200		200		200
Other Appropriate Costs		1,497		2,193		4,872		3,078		2,249
Total		19,690		13,325		15,550		13,643		13,534

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE

V. COMPETITON/SECOND SOURCE INITIATIVES:

NOTE:

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

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

Ship Type: **LPD 17**
Equipment Item: **AN/SPS--48E**
PARM Code:

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:

P-35 Category	**FY 2008**	
	QTY	**COST**
Major Hardware	1	11,183
Ancillary Equipment		127
Systems Engineering		0
Technical Data and Documentation		40
Technical Engineering		682
Spares		212
Other Appropriate Costs		3,021
Total		15,265

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE

V. COMPETITON/SECOND SOURCE INITIATIVES:

NOTE:

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

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

Ship Type: **LPD 17**
Equipment Item: **SPQ-9B**
PARM Code:

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:

P-35 Category	FY 2000		FY 2003		FY 2004		FY 2005		FY 2006	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
Major Hardware	2	9,503	1	5,225	1	4,805	1	5,512	1	5,819
Systems Engineering		858		591		531		291		271
Technical Data and Documentation		200		62		62		100		100
Technical Engineering		64		285		530		440		500
Spares		224		228		100		107		109
Other Appropriate Costs		2,183		182		883		1,261		930
Total		13,032		6,573		6,911		7,711		7,729

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE

V. COMPETITON/SECOND SOURCE INITIATIVES:

NOTE:

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

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

Ship Type: **LPD 17**
Equipment Item: **SPQ-9B**
PARM Code:

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:

P-35 Category	**FY 2008**	
	QTY	**COST**
Major Hardware	1	5,819
Systems Engineering		271
Technical Data and Documentation		100
Technical Engineering		500
Spares		109
Other Appropriate Costs		1,218
Total		8,017

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE

V. COMPETITON/SECOND SOURCE INITIATIVES:

NOTE:

Exhibit P-10, Advance Procurement Requirements Analysis (Page 1 - Funding)								Date: February 2008				
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number 1811N/BA3/Amphibious Ships/3036C								P-1 Line Item Nomenclature LPD-17				
Weapon System LPD-17							Interval Between Systems					
($ in Millions)												
	PLT	When Rdq	Prior Years	CY FY08	BY1 FY09	BY2 FY10	BY3 FY11	BY4 FY12	BY6 FY13	BY7 FY14	To Complete	Total
End Item Qty												
Basic			234.0	49.7								283.7
HM&E			15.9									15.9
Electronics			46.3									46.3
Total AP			296.2	49.7								345.9

Exhibit P-10, Advance Procurement Requirements Analysis (Page 2 - Budget Justification)								Date: February 2008	
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number 1811N/BA3/Ampibious Ships/3036C						Weapon System LPD-17		P-1 Line Item Nomenclature LPD-17	
(TOA, $ in Millions)									
	PLT	QPA	Unit Cost	FY07 Qty	FY07 Contract Forecast Date	FY07 Total Cost Request	FY08 Qty	FY08 Contract Forecast Date	FY08 Total Cost Request
End Item									
Basic					Dec 06	234.0		TBD	49.7
HM&E					Various	15.9			
Electronics					Various	46.3			
Total AP						296.2			49.7

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

DATE: February 2008

APPROPRIATION/BUDGET ACTIVITY
SHIPBUILDING AND CONVERSION, NAVY/BA 3 Amphibious Ships

P-1 LINE ITEM NOMENCLATURE
LHA REPLACEMENT
BLI: 3041 / SUBHEAD NO. 304100 / 1388

(Dollars in Millions)	PRIOR YR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TO COMP	TOTAL PROG
QUANTITY	0	1	0	0	0	0	0	0	0	1
End Cost	0.0	3,080.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,080.9
Less Advance Procurement	0.0	297.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	297.7
Less Cost to Complete	0.0	84.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.3
Less Hurricane Supplemental	0.0	202.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	202.0
Less Subsequent Year FF	0.0	1,365.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,365.8
Full Funding TOA	0.0	1,131.1	1,365.8	0.0	0.0	0.0	0.0	0.0	0.0	2,496.9
Plus Advance Procurement	297.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	297.7
Plus Hurricane Supplemental	202.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	202.0
Total Obligational Authority	499.7	1,131.1	1,365.8	0.0	0.0	0.0	0.0	0.0	0.0	2996.6
Plus Cost to Complete	0.0	0.0	0.0	14.3	70.0	0.0	0.0	0.0	0.0	84.3
Plus Outfitting / Plus Post Delivery	0.0	0.0	0.0	0.0	13.7	22.6	47.8	2.0	0.0	86.1
Total	499.7	1,131.1	1,365.8	14.3	83.7	22.6	47.8	2.0	0.0	3,167.0
Unit Cost (Ave. End Cost)	0.0	3,080.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,080.9

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.

Characteristics		Production Status		Armament	Major Electronics
Hull		Contract Plans		NATO Sea Sparrow Missile	AN/SLQ-32(V)2
Length overall	844'	Award Planned (Month)	JUNE 2007	Rolling Airframe Missile	C41SR Suite
Beam	106'	Months to Complete		AN/SPS-49(V)5 Radar	BFTT
Displacement	45,594 tons	a) Award to Delivery	62	AN/SPS-48E Radar	CEC P3I
Draft	29'1"	b) Construction Start to Commissioning Date	52 TBD	CIWS	SSDS MK II 4B

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

BUDGET ACTIVITY: 3	**P-1 LINE ITEM NOMENCLATURE**	**SUBHEAD NO. 304100 / 1388 BLI: 3041**
Amphibious Ships	**LHA REPLACEMENT**	

	FY 2007	
ELEMENT OF COST	**QTY**	**COST**
PLAN COSTS	1	191,000
BASIC CONST/CONVERSION		2,224,147
CHANGE ORDERS		130,000
ELECTRONICS		267,459
HM&E		56,632
OTHER COST		92,787
ORDNANCE		118,867
TOTAL SHIP ESTIMATE		3,080,892
LESS:		
FY05 ADVANCE PROCUREMENT		149,278
FY06 ADVANCE PROCUREMENT		148,398
FY06 HURRICANE SUPPLEMENTAL		202,000
FY08 SUBSEQUENT FUNDING		1,365,785
FY09 COST TO COMPLETE		14,310
FY10 COST TO COMPLETE		70,000
NET P-1 LINE ITEM:		1,131,121

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimate - Basic/Escalation

Ship Type: LHA REPLACEMENT

I.	**Design/Schedule**	**Start/Issue**	**Complete /Response**	**Reissue**	**Complete /Response**
	Issue date for TLR				
	Issue date for TLS				
	Preliminary Design	MAY 2004	AUG 2005		
	Contract Design	MAY 2004	AUG 2005		
	Detail Design	FEB 2006	APR 2009		
	Request for Proposals				
	Design Agent				
II.	**Classification of Cost Estimate**	CLASS C			
III.	**Basic Construction/Conversion**	**FY07**			
	A. Actual Award Date	JUNE 2007			
	B. Contract Type (and Share Line if applicable)	FPI (50/50 O/R)			
	C. RFP Response Date	MARCH 2006			
IV.	**Escalation**	FORWARD PRICED			
	Escalation Termination Date				
	Escalation Requirement				
	Labor/Material Split				
	Allowable Overhead Rate				
V.	**Other Basic(Reserves/Miscellaneous)**	**Amount**			

SHIPBUILDING AND CONVERSION, NAVY
SHIP PRODUCTION SCHEDULE

SHIP TYPE	HULL NUMBER	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
LHA (R)	LHA 6	NGSS	2007	JUN-07	APR-08	AUG-12

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type: LHA REPLACEMENT

	FY 2007	
	QTY	COST
HM&E		
a. P-35 Items		
Subtotal		0
b. Major Items		
EQUIPMENT & ENGINEERING	0	45,078
SUPSHIP MATERIAL/SERVICES	0	3,995
TEST & INSTRUMENTATION	0	7,559
Subtotal		56,632
c. Other HM&E		
	0	0
Subtotal		0
Total HM&E		56,632

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type: LHA REPLACEMENT

	FY 2007	
	QTY	COST
ELECTRONICS		
a. P-35 Items		
AN/SLQ-32	1	11,826
C4ISR	1	120,680
CEC	1	9,857
SSDS	1	40,457
DCGS-N	1	6,793
BFTT	1	10,873
IVN	1	14,824
MK-12 IFF	1	7,335
AN/SRC-55	1	4,054
AN/TPX-42 ATC	1	4,648
AN/SPN-35C	1	4,459
AN/WSN-7 RLGN	1	4,309
MK53 NULKA	1	3,490
Subtotal		243,605
b. Major Items		
AN/SLQ-25	1	2,003
AN/SPN-43C	1	2,305
AN/SPN-41A	1	2,700
MK70 SWBD W/ MK443 SWBD	1	1,409
ANNOUNCING SYSTEMS	1	1,800
DIGITAL PHOTO LAB	1	1,230
CADRT	1	1,744
Subtotal		13,191
c. Other ELECTRONICS		
MISCELLANEOUS ELECTRONICS	0	10,663
Subtotal		10,663
Total ELECTRONICS		267,459

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type: LHA REPLACEMENT

	FY 2007	
	QTY	COST
ORDNANCE		
a. P-35 Items		
AN/SPS-48E	1	15,552
AN/SPS-49	1	11,521
CIWS	2	11,631
AN/SPQ-9B	1	9,135
NATO SEASPARROW	2	26,490
RAM	2	25,769
Subtotal		100,098
b. Major Items		
AN/SPQ-14	1	2,899
Subtotal		2,899
c. Other ORDNANCE		
AVIATION SUPPORT	0	5,218
MISC ORDNANCE	0	3,530
TOTAL SHIP TEST PROGRAM	0	7,122
Subtotal		15,870
Total ORDNANCE		118,867

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

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

Ship Type: **LHA REPLACEMENT**
Equipment Item: **MK53 NULKA**
PARM Code: **YH**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

Decoy launching system; deploys NULKA countermeasure and CHAFF countermeasure.

II. CURRENT FUNDING:

P-35 Category	**FY 2007**	
	QTY	**COST**
Major Hardware	1	500
Technical Data and Documentation		135
Spares		75
System Engineering		650
Technical Engineering Services		351
Other Costs		1,779
Total		3,490

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	LHA (R)	SECHAN/BAE	FFP-BOA	JAN-08		1	500

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	LHA (R)	AUG-12	37	14	MAY-08

V. COMPETITON/SECOND SOURCE INITIATIVES:

NOTE:

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

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

Ship Type: **LHA REPLACEMENT**
Equipment Item: **AN/SLQ-32**
PARM Code: **SJ**

I. DESCRIPTION/CHARACTERISTICS/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, and continuously displays signals within their frequency band.

II. CURRENT FUNDING:

P-35 Category	FY 2007 QTY	FY 2007 COST
Major Hardware	1	9,758
Spares		130
Engr/ILS/Mgmt Spt		399
Software & Programming		667
Other Costs		872
Total		11,826

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	LHA 6	RAYTHEON		JUL-05		1	9,758

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	LHA 6	AUG-12	37 MONTHS	30 MONTHS	JAN-07

V. COMPETITON/SECOND SOURCE INITIATIVES:

N/A

NOTE:

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

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

Ship Type: **LHA REPLACEMENT**
Equipment Item: **C4ISR**
PARM Code: **SPAWAR (EJ)**

I. DESCRIPTION/CHARACTERISTICS/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:

P-35 Category	**FY 2007**	
	QTY	**COST**
Major Hardware	1	79,609
Spares		3,458
Engr/ILS/Mgmt Spt		24,106
Tech Data & Documentation		2,626
Software & Programming		3,871
Other Costs		7,010
Total		120,680

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	LHA 6	VARIOUS				1	0

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	LHA 6	AUG-12	0	0	

V. COMPETITON/SECOND SOURCE INITIATIVES:

NOTE:

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

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

Ship Type: **LHA REPLACEMENT**
Equipment Item: **CEC**
PARM Code: **PEO IWS 6 (4L)**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The 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:

P-35 Category	FY 2007 QTY	FY 2007 COST
Major Hardware	1	4,300
Spares		215
Engr/ILS/Mgmt Spt		541
Software & Programming		4,096
Other Costs		705
Total		9,857

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	LHA 6	RAYTHEON	CPAF	JAN-06		1	4,300

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	LHA 6	AUG-12	37 MONTHS	18 MONTHS	DEC-07

V. COMPETITON/SECOND SOURCE INITIATIVES:

N/A

NOTE:

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

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

Ship Type: **LHA REPLACEMENT**
Equipment Item: **SSDS**
PARM Code: **PEO IWS 1A5 (3X)**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The SSDS MK2 provides selected ships with greater capability to defend themselves against Anti-Ship Cruise Missile (ASCM) attacks.

II. CURRENT FUNDING:

P-35 Category	FY 2007 QTY	FY 2007 COST
Major Hardware	1	9,387
Spares		699
Engr/ILS/Mgmt Spt		3,355
Technical Support Services		12,066
Schedule B Services		500
Software & Programming		13,550
Other Costs		900
Total		40,457

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	LHA 6	RAYTHEON	CPAF	NOV-07		1	9,387

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	LHA 6	AUG-12	37	18	DEC-07

V. COMPETITON/SECOND SOURCE INITIATIVES:

N/A

NOTE:

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

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

Ship Type: **LHA REPLACEMENT**
Equipment Item: **DCGS-N**
PARM Code: **SPAWAR (EJ)**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The Distributed Common Ground System (DCGS-N) 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:

P-35 Category	**FY 2007**	
	QTY	**COST**
Major Hardware	1	4,541
Spares		376
Engr/ILS/Mgmt Spt		60
Technical Support Services		1,422
Other Costs		394
Total		6,793

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	LHA 6	TBD	TBD			1	4,541

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	LHA 6	AUG-12	0	0	

V. COMPETITON/SECOND SOURCE INITIATIVES:

TBD

NOTE:

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

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

Ship Type: **LHA REPLACEMENT**
Equipment Item: **BFTT**
PARM Code: **PEO IWS 1A5 (3V)**

I. DESCRIPTION/CHARACTERISTICS/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:

P-35 Category	**FY 2007**	
	QTY	**COST**
Major Hardware	1	6,026
Spares		263
Engr/ILS/Mgmt Spt		1,305
Software & Programming		1,088
Other Costs		2,191
Total		10,873

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	LHA 6	VARIOUS				1	6,026

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	LHA 6	AUG-12	37	12	JUL-08

V. COMPETITON/SECOND SOURCE INITIATIVES:

NOTE:

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

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

Ship Type: **LHA REPLACEMENT**
Equipment Item: **IVN**
PARM Code: **SEA 05W**

I. DESCRIPTION/CHARACTERISTICS/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 C41 installations onboard ship.

II. CURRENT FUNDING:

P-35 Category	**FY 2007**	
	QTY	**COST**
Major Hardware	1	12,443
Engr/ILS/Mgmt Spt		944
Other Costs		1,335
Tech Data & Doc		102
Total		14,824

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	LHA 6	AVAYA				1	12,443

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	LHA 6	AUG-12	9	7	APR-11

V. COMPETITON/SECOND SOURCE INITIATIVES:

Non-Competitive/Sole Source Production Contract/CPAF

NOTE:

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

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

Ship Type: **LHA REPLACEMENT**
Equipment Item: **MK-12 IFF**
PARM Code: **PMA 213**

I. DESCRIPTION/CHARACTERISTICS/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:

P-35 Category	**FY 2007**	
	QTY	**COST**
Major Hardware	1	4,602
Spares		733
Engr/ILS/Mgmt Spt		1,040
Software & Programming		200
Other Costs		760
Total		7,335

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	LHA 6	VARIOUS				1	4,602

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	LHA 6	AUG-12	37	24	JUL-07

V. COMPETITON/SECOND SOURCE INITIATIVES:

N/A

NOTE:

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

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

Ship Type: **LHA REPLACEMENT**
Equipment Item: **AN/SRC-55**
PARM Code: **SEA 05W**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

Provides critical wireless voice communication nets in support of shipboard operations.

II. CURRENT FUNDING:

P-35 Category	**FY 2007**	
	QTY	**COST**
Major Hardware	1	2,553
Spares		34
Engr/ILS/Mgmt Spt		964
Technical Support Services		503
Total		4,054

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	LHA 6	M/A COM		NOV-08		1	2,553

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	LHA 6	AUG-12	23	6	MAR-10

V. COMPETITON/SECOND SOURCE INITIATIVES:

N/A

NOTE:

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

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

Ship Type: **LHA REPLACEMENT**
Equipment Item: **AN/TPX-42 ATC**
PARM Code: **PMA213**

I. DESCRIPTION/CHARACTERISTICS/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:

P-35 Category	FY 2007 QTY	FY 2007 COST
Major Hardware	1	3,099
Spares		158
Engr/ILS/Mgmt Spt		653
Software & Programming		219
Other Costs		519
Total		4,648

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	LHA 6	NAWC-AD		MAR-06		1	3,099

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	LHA 6	AUG-12	37	24	JUL-07

V. COMPETITON/SECOND SOURCE INITIATIVES:

N/A

NOTE:

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

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

Ship Type: **LHA REPLACEMENT**
Equipment Item: **AN/SPN-35C**
PARM Code: **PMA213**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

Precision approach radar used for aircraft recovery during adverse weather conditions and night conditions.

II. CURRENT FUNDING:

P-35 Category	**FY 2007**	
	QTY	**COST**
Major Hardware	1	2,925
Engr/ILS/Mgmt Spt		841
Other Costs		693
Total		4,459

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	LHA 6	NAWC-AD		JUL-05		1	2,925

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	LHA 6	AUG-12	37	24	JUL-07

V. COMPETITON/SECOND SOURCE INITIATIVES:

N/A

NOTE:

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

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

Ship Type: **LHA REPLACEMENT**
Equipment Item: **AN/WSN-7 RLGN**
PARM Code: **PEO IWS 6**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

Provides realtime navigation data for use by navigation and combat systems.

II. CURRENT FUNDING:

P-35 Category	**FY 2007**	
	QTY	**COST**
Major Hardware	1	2,020
Spares		663
Engr/ILS/Mgmt Spt		883
Software & Programming		102
Other Costs		641
Total		4,309

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	LHA 6	SPERRY MARINE		MAY-07		1	2,020

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	LHA 6	AUG-12	37	24	JUL-07

V. COMPETITON/SECOND SOURCE INITIATIVES:

N/A

NOTE:

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

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

Ship Type: **LHA REPLACEMENT**
Equipment Item: **AN/SPS-48E**
PARM Code: **PEO IWS 2R1 (WG)**

I. DESCRIPTION/CHARACTERISTICS/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:

P-35 Category	FY 2007 QTY	FY 2007 COST
Major Hardware	1	11,373
Spares		226
Engr/ILS/Mgmt Spt		921
Software & Programming		666
Other Costs		2,366
Total		15,552

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	LHA 6	ITT/Gilfillan		SEP-06		1	11,373

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	LHA 6	AUG-12	37	30	JAN-07

V. COMPETITON/SECOND SOURCE INITIATIVES:

N/A

NOTE:

Refurbished Item

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

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

Ship Type: **LHA REPLACEMENT**
Equipment Item: **AN/SPS-49**
PARM Code: **PEO IWS2R1 (WG)**

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:

P-35 Category	FY 2007 QTY	FY 2007 COST
Major Hardware	1	7,315
Spares		475
Engr/ILS/Mgmt Spt		469
Other Costs		3,262
Total		11,521

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	LHA 6	RAYTHEON		JUL-05		1	7,315

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	LHA 6	AUG-12	37	30	JAN-07

V. COMPETITON/SECOND SOURCE INITIATIVES:

N/A

NOTE:

Refurbished Item

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

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

Ship Type: **LHA REPLACEMENT**
Equipment Item: **CIWS**
PARM Code: **PEO IWS 3**

I. DESCRIPTION/CHARACTERISTICS/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:

P-35 Category	**FY 2007**	
	QTY	**COST**
Major Hardware	2	9,482
Spares		736
Engr/ILS/Mgmt Spt		844
Other Costs		569
Total		11,631

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	LHA 6	RAYTHEON		OCT-08		2	4,741

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	LHA 6	AUG-12	19	22	MAR-09

V. COMPETITON/SECOND SOURCE INITIATIVES:

N/A

NOTE:

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

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

Ship Type: **LHA REPLACEMENT**
Equipment Item: **AN/SPQ-9B**
PARM Code: **PEO IWS2R1 (WG)**

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The AN/SPQ-9B is a multimode, X-Band, narrow beam, pulse Dopper 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:

P-35 Category	**FY 2007**	
	QTY	**COST**
Major Hardware	1	6,806
Spares		428
Engr/ILS/Mgmt Spt		1,086
Software & Programming		135
Other Costs		680
Total		9,135

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	LHA 6	NGSS		FEB-06		1	6,806

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	LHA 6	AUG-12	37	18	JAN-08

V. COMPETITON/SECOND SOURCE INITIATIVES:

NOTE:

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

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

Ship Type: **LHA REPLACEMENT**
Equipment Item: **NATO SEASPARROW**
PARM Code: **PEO IWS 3**

I. DESCRIPTION/CHARACTERISTICS/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:

P-35 Category	**FY 2007**	
	QTY	**COST**
Major Hardware	2	14,301
Spares		870
Engr/ILS/Mgmt Spt		4,928
Software & Programming		2,196
Other Costs		4,195
Total		26,490

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	LHA 6	RAYTHEON		DEC-06		2	7,151

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	LHA 6	AUG-12	37	24	JUL-07

V. COMPETITON/SECOND SOURCE INITIATIVES:

N/A

NOTE:

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

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

Ship Type: **LHA REPLACEMENT**
Equipment Item: **RAM**
PARM Code: **PEO IWS 3**

I. DESCRIPTION/CHARACTERISTICS/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:

P-35 Category	**FY 2007**	
	QTY	**COST**
Major Hardware	2	15,514
Spares		119
Engr/ILS/Mgmt Spt		6,508
Other Costs		3,628
Total		25,769

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	AWARD DATE	NEW /OPTION	QTY	HARDWARE UNIT COST
FY07	LHA 6	RAYTHEON		MAR-07		2	7,757

IV. DELIVERY DATE:

PROGRAM YEAR	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEADTIME	REQUIRED AWARD DATE
FY07	LHA 6	AUG-12	37	24	JUL-07

V. COMPETITON/SECOND SOURCE INITIATIVES:

NOTE:
First launcher to be refurbished and delivered to NGSS Nov 2008; 2nd launcher to be refurbished and delivered to NGSS Jan 2010.

CLASSIFICATION: UNCLASSIFIED

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

DATE: February 2008

APPROPRIATION/BUDGET ACTIVITY
SHIPBUILDING AND CONVERSION, NAVY/BA 3 Amphibious Ships

P-1 LINE ITEM NOMENCLATURE
INTRATHEATER CONNECTOR
BLI: 3043 / SUBHEAD NO.

(Dollars in Millions)	PRIOR YR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TO COMP	TOTAL PROG
QUANTITY	0	0	0	1	1	1	1	1	0	5
End Cost	0.0	0.0	0.0	174.8	174.2	181.8	188.3	194.9	0.0	914.0
Full Funding TOA	0.0	0.0	0.0	174.8	174.2	181.8	188.3	194.9	0.0	914.0
Total Obligational Authority	0.0	0.0	0.0	174.8	174.2	181.8	188.3	194.9	0.0	914.0
Plus Outfitting / Plus Post Delivery	0.0	0.0	0.0	0.0	6.8	9.8	7.4	3.6	62.2	89.8
Total	0.0	0.0	0.0	174.8	181.0	191.6	195.6	198.5	62.2	1,003.6
Unit Cost (Ave. End Cost)	0.0	0.0	0.0	174.8	174.2	181.8	188.3	194.9	0.0	182.8

MISSION:

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."

Characteristics		Production Status	
Hull	Pending Source Selection	Contract Plans	0901
Length overall	450 ft or less	Award Planned (Month)	Mar-09
Beam	PANAMAX	Months to Complete	
Displacement	TBD	a) Award to Delivery	36
Draft	15 ft or less	b) Construction Start to Commissioning Date	24
		Completion of Fitting-Out	TBD
			May-12
Armament: N/A		Major Electronics:	TBD

CLASSIFICATION:
UNCLASSIFIED

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

BUDGET ACTIVITY: 3	**P-1 LINE ITEM NOMENCLATURE**	**SUBHEAD NO. BLI: 3043**
Amphibious Ships	**INTRATHEATER CONNECTOR**	

	FY 2007		**FY 2008**		**FY 2009**	
ELEMENT OF COST	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**
PLAN COSTS					1	
BASIC CONST/CONVERSION						136,000
CHANGE ORDERS						6,800
ELECTRONICS						23,113
HM&E						5,869
OTHER COST						3,000
NET P-1 LINE ITEM:						174,782

SHIPBUILDING AND CONVERSION, NAVY
SHIP PRODUCTION SCHEDULE

EXHIBIT P-27
FY 2009 President's Budget
DATE:
February 2008

SHIP TYPE	HULL NUMBER	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
JHSV	0901	TBD	2009	MAR-09	MAR-10	MAR-12
JHSV	1001	TBD	2010	MAR-10	MAR-11	JAN-13
JHSV	1101	TBD	2011	MAR-11	MAR-12	JAN-14
JHSV	1201	TBD	2012	MAR-12	MAR-13	JAN-15
JHSV	1301	TBD	2013	MAR-13	MAR-14	JAN-16

CLASSIFICATION: UNCLASSIFIED

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

DATE:
February 2008

APPROPRIATION/BUDGET ACTIVITY
SHIPBUILDING AND CONVERSION, NAVY/BA 5 Auxiliaries, Craft and Prior Year Program Costs

P-1 LINE ITEM NOMENCLATURE
SPECIAL PURPOSE (SURFACE UNIT RIVERINE)
BLI: 5041 / SUBHEAD NO. 1554

(Dollars in Millions)	PRIOR YR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TO COMP	TOTAL PROG
QUANTITY	0	1	0	0	0	0	0	0	0	1
End Cost	2.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9
Full Funding TOA	2.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9
Total Obligational Authority	2.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9
Total	2.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9
Unit Cost (Ave. End Cost)	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9

MISSION:

Conduct military operations on inland waterways including River Patrol and Interdiction (RPI) missions and support limited assault missions in low to medium threat Riverine environments. Congressional Add FY07 DOD Appropriation.

Characteristics:		Production Status	
Hull		Contract Plans	
Length overall	49 ft	Award Planned (Month)	JUN-07
Beam	12ft - 5in	Months to Complete	
Displacement	TBD	a) Award to Delivery	18
Draft	36	b) Construction Start to	16
		Commissioning Date	N/A
		Completion of	
		Fitting-Out	Feb-09

Armament: N/A

Major Electronics:

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

BUDGET ACTIVITY: 5	**P-1 LINE ITEM NOMENCLATURE**	**SUBHEAD NO. 1554 BLI: 5041**
Auxiliaries, Craft and Prior Year Program Costs	**SPECIAL PURPOSE (SURFACE UNIT RIVERINE)**	

	FY 2007		**FY 2008**		**FY 2009**	
ELEMENT OF COST	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**
PLAN COSTS	1					
BASIC CONST/CONVERSION		2,888				
NET P-1 LINE ITEM:		2,888				

SHIPBUILDING AND CONVERSION, NAVY
SHIP PRODUCTION SCHEDULE

SHIP TYPE	HULL NUMBER	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
SPECIAL PURPOSE	N/A	SAFE BOATS INTERNATIONAL	2007	JUN-07	AUG-07	DEC-08

CLASSIFICATION: UNCLASSIFIED

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

DATE:
February 2008

APPROPRIATION/BUDGET ACTIVITY
SHIPBUILDING AND CONVERSION, NAVY/BA 5 Auxiliaries, Craft and Prior Year Program Costs

P-1 LINE ITEM NOMENCLATURE
AGOR OCEANOGRAPHIC CLASS
BLI: 5087 / SUBHEAD NO. 1599

(Dollars in Millions)	PRIOR YR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TO COMP	TOTAL PROG
QUANTITY	0	1	0	0	0	1	1	0	0	3
End Cost	0.0	116.5	0.0	0.0	0.0	92.5	92.5	0.0	0.0	301.5
Plus Subsequent Year FF	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	116.5	0.0	0.0	0.0	92.5	92.5	0.0	0.0	301.5
Total Obligational Authority	0.0	116.5	0.0	0.0	0.0	92.5	92.5	0.0	0.0	301.5
Total	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	116.5	0.0	0.0	0.0	92.5	92.5	0.0	0.0	100.5

MISSION:

The 2007 Department of Defense Appropriations Act included a Congressional add for T-AGS Oceanographic Survey Ship. The TAGS 66 will be capable of deep ocean and coastal surveys, oceanographic sampling and data collections of midwater and ocean floor parameters, shipboard oceanographic data processing and sample analysis, and operation of remotely operated vehicles (AUVs) and hydrographic survey launches (HSLs). FY11 and FY12 funds a new class of purpose research vessels called AGOR Ocean designed for integrated, interdisciplinary research that will support science, educational, and engineering operations in all oceans.

Chacteristics				TAGS-66	AGOR 1101	AGOR 1201
		NOTIONAL	Production Status			
HULL	TAGS	AGOR	Contract Plan			
Length overall	353 ft	230 ft	Award Planned (Month)	Jun-08	Feb-11	Feb-12
Beam	58 ft	45 ft	Months to Complete			
Displacement	5,144 LT	2300 LT	a) Award to Delivery	40	36	30
Draft	18 ft	17 ft	b) Construction Start to	34	27	24
			Commisioning Date	TBD	TBD	TBD
			Completion of Fitting-Out	Jan-12	May-14	Nov-14
Armament:	N/A		Major Electronics:	TBD	TBD	TBD

CLASSIFICATION:
UNCLASSIFIED

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

BUDGET ACTIVITY: 5	**P-1 LINE ITEM NOMENCLATURE**	**SUBHEAD NO. 1599 BLI: 5087**
Auxiliaries, Craft and Prior Year Program Costs	**AGOR OCEANOGRAPHIC CLASS**	

	FY 2006		**FY 2007**		**FY 2008**		**FY 2009**	
ELEMENT OF COST	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**
PLAN COSTS			1	6,200				
BASIC CONST/CONVERSION				82,400				
CHANGE ORDERS				3,388				
ELECTRONICS				15,056				
HM&E				6,962				
OTHER COST				2,500				
NET P-1 LINE ITEM:				116,506				

EXHIBIT P-27
FY 2009 President's Budget
DATE:
February 2008

SHIPBUILDING AND CONVERSION, NAVY
SHIP PRODUCTION SCHEDULE

SHIP TYPE	HULL NUMBER	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
TAGS	0066	TBD	2007	JUN-08	DEC-08	OCT-11
AGOR	1101	TBD	2011	FEB-11	NOV-11	FEB-14
AGOR	1201	TBD	2012	FEB-12	AUG-12	AUG-14

CLASSIFICATION: UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET (P-40)	DATE:February 2008
FY 2009 President's Budget	
APPROPRIATION/BUDGET ACTIVITY **SHIPBUILDING AND CONVERSION, NAVY/BA 5 Auxiliaries, Craft and Prior Year Program Costs**	P-1 LINE ITEM NOMENCLATURE **OUTFITTING** **SUBHEAD NO. 8560 BLI: 5110**

(Dollars in Millions)	PRIOR YR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TO COMP	TOTAL PROG
Full Funding TOA-Outfitting	393.3	138.4	137.8	141.3	181.8	191.4	162.1	128.6	810.9	2285.6
Full Funding TOA-Post Delivery	376.6	227.2	234.7	283.5	246.8	214.1	255.2	297.3	1504.4	3639.8
Full Funding TOA-First Destination	10.8	3.5	4.3	4.8	5.6	5.7	5.8	5.9	6	52.4
Total Obligational Authority	780.8	369.1	376.9	429.6	434.2	411.2	423.1	431.8	2321.3	5977.8

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).

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.

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.

CLASSIFICATION:	UNCLASSIFIED														
BUDGET ITEM JUSTIFICATION SHEET(P-29) FY 2009 President's Budget													DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY SHIPBUILDING AND CONVERSION, NAVY/BA 5									P-1 LINE ITEM NOMENCLATURE OUTFITTING BLI: 5110/SUBHEAD NO. 8560						
Ship Type	HULL NO	PROG YEAR	Contract Award	Start of Constr.	DEL DATE	CFO DATE	PSA START	PSA FINISH	OWLD	PRIOR YEARS	FY 2007	FY 2008	FY 2009	TO COMP	TOTAL
CVN	77	01	JAN-01	MAR-01	NOV-08	FEB-09	MAR-09	AUG-09	JAN-10	19398	23491	27133	5085	0	75107
CVN	78	08	JUN-08	JUN-08	SEP-15	NOV-15	JUN-16	SEP-16	OCT-16	0	0	0	0	123241	123241
CVN	79	12	DEC-11	MAR-12	SEP-19	NOV-19	JUN-20	SEP-20	OCT-20	0	0	0	0	138016	138016
									CVN Total	**19398**	**23491**	**27133**	**5085**	**261257**	**336364**
CVN-RCOH	70	06	NOV-05	NOV-05	MAR-09	MAY-09	JUL-09	NOV-09	APR-10	20830	30768	21163	6049	50	78860
CVN-RCOH	71	09	SEP-09	SEP-09	DEC-12	FEB-13	MAR-13	MAY-13	JAN-14	0	0	0	4694	75341	80035
CVN-RCOH	72	13	FEB-13	FEB-13	MAY-16	JUL-16	JUL-16	SEP-16	JUN-17	0	0	0	0	85346	85346
									CVN-RCOH Total	**20830**	**30768**	**21163**	**10743**	**160737**	**244241**
DDG	094	99	MAR-98	SEP-01	DEC-04	FEB-05	SEP-05	DEC-05	JAN-07	17076	28	0	0	0	17104
DDG	098	00	MAR-98	JUL-02	AUG-05	DEC-05	AUG-06	NOV-06	MAY-07	17173	124	0	0	0	17297
DDG	099	01	MAR-98	DEC-02	JAN-06	MAY-06	FEB-07	MAY-07	OCT-07	17308	301	0	0	0	17609
DDG	100	01	MAR-98	JAN-03	DEC-06	MAY-07	JAN-08	APR-08	AUG-08	15921	1075	200	0	0	17196
DDG KATRINA	100	01	MAR-98	JAN-03	DEC-06	MAY-07	JAN-08	APR-08	AUG-08	1700	0	0	0	0	1700
DDG	101	01	MAR-98	JUL-03	SEP-06	JAN-07	AUG-07	NOV-07	DEC-07	15969	1611	56	0	0	17636
DDG	102	02	JUL-02	FEB-04	MAY-07	OCT-07	JUN-08	SEP-08	SEP-08	11953	4287	256	0	0	16496
DDG	103	02	SEP-02	MAY-04	OCT-08	APR-09	SEP-09	DEC-09	MAR-10	969	6354	4769	2748	311	15151
DDG	104	02	SEP-02	OCT-04	FEB-08	JUN-08	MAR-09	JUN-09	MAY-09	4771	6754	2976	571	0	15072
DDG	105	03	SEP-02	APR-05	APR-09	AUG-09	MAY-10	AUG-10	JUL-10	395	1833	5491	7245	316	15280
DDG	106	03	SEP-02	MAY-05	AUG-08	JAN-09	SEP-09	DEC-09	DEC-09	704	5650	6746	1934	123	15157
DDG	107	04	SEP-02	FEB-06	FEB-10	JUN-10	FEB-11	JUN-11	MAY-11	396	0	0	8712	6238	15346
DDG	108	04	SEP-02	DEC-05	MAY-09	AUG-09	JUN-10	SEP-10	JUL-10	396	0	6721	7836	316	15269
DDG	109	04	SEP-02	JUL-06	JAN-10	MAY-10	JAN-11	APR-11	APR-11	0	0	411	8552	6400	15363
DDG	110	05	SEP-02	MAY-07	SEP-10	JAN-11	JUL-11	OCT-11	DEC-11	0	0	0	6940	8514	15454
DDG	111	05	SEP-02	APR-07	AUG-10	DEC-10	AUG-11	NOV-11	NOV-11	0	0	0	7046	8429	15475
DDG	112	05	SEP-02	FEB-08	APR-11	AUG-11	MAR-12	JUL-12	JUL-12	0	0	0	405	15155	15560
									DDG Total	**104731**	**28017**	**27626**	**51989**	**45802**	**258165**
DDG 1000	1000	07	JAN-08	JUL-08	DEC-12	TBD	TBD	TBD	NOV-13	0	0	0	0	42494	42494
DDG 1000	1001	07	JAN-08	SEP-09	FEB-14	TBD	TBD	TBD	JUN-15	0	0	0	0	42493	42493
DDG 1000	1002	09	JAN-09	JUL-10	DEC-14	TBD	TBD	TBD	NOV-15	0	0	0	0	44210	44210
DDG 1000	1003	10	JAN-10	JUL-11	JUL-15	TBD	TBD	TBD	JUN-16	0	0	0	0	45094	45094

CLASSIFICATION:	UNCLASSIFIED														
BUDGET ITEM JUSTIFICATION SHEET(P-29) FY 2009 President's Budget													DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY SHIPBUILDING AND CONVERSION, NAVY/BA 5									P-1 LINE ITEM NOMENCLATURE OUTFITTING BLI: 5110/SUBHEAD NO. 8560						
Ship Type	HULL NO	PROG YEAR	Contract Award	Start of Constr.	DEL DATE	CFO DATE	PSA START	PSA FINISH	OWLD	PRIOR YEARS	FY 2007	FY 2008	FY 2009	TO COMP	TOTAL
DDG 1000	1004	11	JAN-11	JUL-12	JAN-16	TBD	TBD	TBD	DEC-16	0	0	0	0	45996	45996
DDG 1000	1005	12	JAN-12	JUL-13	JUL-17	TBD	TBD	TBD	JUN-18	0	0	0	0	46916	46916
DDG 1000	1006	13	JAN-13	JUL-14	JAN-18	TBD	TBD	TBD	DEC-18	0	0	0	0	47854	47854
									DDG 1000 Total	**0**	**0**	**0**	**0**	**315057**	**315057**
JHSV	0901	09	MAR-09	MAR-10	MAR-12	MAY-12	TBD	TBD	APR-13	0	0	0	0	8838	8838
JHSV	1001	10	MAR-10	MAR-11	JAN-13	MAR-13	TBD	TBD	FEB-14	0	0	0	0	8200	8200
JHSV	1101	11	MAR-11	MAR-12	JAN-14	MAR-14	TBD	TBD	FEB-15	0	0	0	0	8364	8364
JHSV	1201	12	MAR-12	MAR-13	JAN-15	MAR-15	TBD	TBD	FEB-16	0	0	0	0	8531	8531
JHSV	1301	13	MAR-13	MAR-14	JAN-16	MAR-16	TBD	TBD	FEB-17	0	0	0	0	8702	8702
									JHSV Total	**0**	**0**	**0**	**0**	**42635**	**42635**
LCS	5	08	JUN-08	MAR-09	NOV-11	FEB-12	OCT-12	JAN-13	JAN-13	0	0	0	0	9850	9850
LCS	6	09	JUN-09	MAR-10	NOV-12	FEB-13	OCT-13	JAN-14	JAN-14	0	0	0	0	10196	10196
LCS	7	09	JUN-09	MAY-10	JAN-13	APR-13	DEC-13	MAR-14	MAR-14	0	0	0	0	10196	10196
LCS	8	10	NOV-09	AUG-10	APR-13	JUL-13	MAR-14	JUN-14	JUN-14	0	0	0	0	10551	10551
LCS	9	10	NOV-09	OCT-10	JUN-13	SEP-13	MAY-14	AUG-14	AUG-14	0	0	0	0	10551	10551
LCS	10	10	NOV-09	DEC-10	AUG-13	NOV-13	JUL-14	OCT-14	OCT-14	0	0	0	0	10551	10551
LCS	11	11	NOV-10	AUG-11	APR-14	JUL-14	MAR-15	JUN-15	JUN-15	0	0	0	0	10921	10921
LCS	12	11	NOV-10	OCT-11	JUN-14	SEP-14	MAY-15	AUG-15	AUG-15	0	0	0	0	10921	10921
LCS	13	11	NOV-10	DEC-11	AUG-14	NOV-14	JUL-15	OCT-15	OCT-15	0	0	0	0	10921	10921
LCS	14	12	NOV-11	AUG-12	APR-15	JUL-15	MAR-16	JUN-16	JUN-16	0	0	0	0	11303	11303
LCS	15	12	NOV-11	OCT-12	JUN-15	SEP-15	MAY-16	AUG-16	AUG-16	0	0	0	0	11303	11303
LCS	16	12	NOV-11	DEC-12	AUG-15	NOV-15	JUL-16	OCT-16	OCT-16	0	0	0	0	11303	11303
LCS	17	12	NOV-11	FEB-13	OCT-15	JAN-16	SEP-16	DEC-16	DEC-16	0	0	0	0	11303	11303
LCS	18	13	NOV-12	AUG-13	APR-16	JUL-16	MAR-17	JUN-17	JUN-17	0	0	0	0	11699	11699
LCS	19	13	NOV-12	OCT-13	JUN-16	SEP-16	MAY-17	AUG-17	AUG-17	0	0	0	0	11699	11699
LCS	20	13	NOV-12	DEC-13	AUG-16	NOV-16	JUL-17	OCT-17	OCT-17	0	0	0	0	11699	11699
LCS	21	13	NOV-12	FEB-14	OCT-16	JAN-17	SEP-17	DEC-17	DEC-17	0	0	0	0	11699	11699
LCS	22	13	NOV-12	APR-14	DEC-16	MAR-17	NOV-17	FEB-18	FEB-18	0	0	0	0	11699	11699
LCS	23	13	NOV-12	JUN-14	FEB-17	MAY-17	JAN-18	APR-18	APR-18	0	0	0	0	11699	11699
									LCS Total	**0**	**0**	**0**	**0**	**210064**	**210064**
LCAC SLEP	08	03	DEC-02	MAY-03	MAY-05	JUN-05	JAN-06	MAR-06	SEP-07	133	0	0	0	0	133

CLASSIFICATION:	UNCLASSIFIED														
BUDGET ITEM JUSTIFICATION SHEET(P-29) FY 2009 President's Budget														DATE February 2008	
APPROPRIATION/BUDGET ACTIVITY SHIPBUILDING AND CONVERSION, NAVY/BA 5									P-1 LINE ITEM NOMENCLATURE OUTFITTING BLI: 5110/SUBHEAD NO. 8560						
Ship Type	HULL NO	PROG YEAR	Contract Award	Start of Constr.	DEL DATE	CFO DATE	PSA START	PSA FINISH	OWLD	PRIOR YEARS	FY 2007	FY 2008	FY 2009	TO COMP	TOTAL
LCAC SLEP	09	03	DEC-02	JUL-03	AUG-05	AUG-05	MAR-06	MAY-06	SEP-07	133	0	0	0	0	133
LCAC SLEP	10	03	JUN-03	SEP-03	JAN-06	FEB-06	MAR-06	MAY-06	SEP-07	0	0	0	0	0	0
LCAC SLEP	21	03	DEC-02	NOV-03	SEP-06	OCT-06	NOV-06	JAN-07	SEP-07	175	0	0	0	0	175
LCAC SLEP	26	04	MAR-04	OCT-04	MAR-07	APR-07	MAY-07	JUN-07	DEC-08	133	0	0	0	0	133
LCAC SLEP	28	04	MAR-04	JAN-05	JUN-07	JUL-07	AUG-07	SEP-07	DEC-08	110	0	0	0	0	110
LCAC SLEP	39	04	MAR-04	MAR-05	SEP-07	OCT-07	NOV-07	DEC-07	DEC-08	20	0	0	0	0	20
LCAC SLEP	40	04	MAR-04	JUN-05	DEC-07	JAN-08	FEB-08	MAR-08	DEC-08	100	0	0	0	0	100
LCAC SLEP	37	05	JAN-05	MAY-05	SEP-07	NOV-07	DEC-07	JAN-08	JAN-09	144	0	0	0	0	144
LCAC SLEP	42	05	JAN-05	MAY-05	MAR-07	APR-07	JUN-07	JUL-07	JAN-09	124	0	0	0	0	124
LCAC SLEP	43	05	JAN-05	MAY-06	JAN-08	FEB-08	MAR-08	APR-08	JAN-09	77	134	0	0	0	211
LCAC SLEP	45	05	JAN-05	FEB-06	JUL-07	AUG-07	SEP-07	OCT-07	JAN-09	94	0	0	0	0	94
LCAC SLEP	47	05	JAN-05	JUL-06	JAN-08	FEB-08	MAR-08	APR-08	JAN-09	108	134	0	0	0	242
LCAC SLEP	29	06	AUG-06	JUN-07	FEB-08	MAR-08	APR-08	MAY-08	SEP-09	70	134	0	0	0	204
LCAC SLEP	32	06	AUG-06	SEP-07	SEP-08	OCT-08	NOV-08	DEC-08	SEP-09	70	134	0	0	0	204
LCAC SLEP	34	06	AUG-06	FEB-07	JUN-08	JUL-08	AUG-08	SEP-08	SEP-09	89	134	0	0	0	223
LCAC SLEP	54	06	AUG-06	MAR-07	FEB-08	MAR-08	APR-08	MAY-08	SEP-09	105	134	0	0	0	239
LCAC SLEP	68	06	AUG-06	JUN-07	MAY-08	JUN-08	JUL-08	AUG-08	SEP-09	70	134	0	0	0	204
LCAC SLEP	31	07	MAR-07	MAR-08	MAR-09	APR-09	JUN-09	JUL-09	SEP-10	0	70	134	0	0	204
LCAC SLEP	33	07	MAR-07	SEP-08	SEP-09	OCT-09	DEC-09	JAN-10	SEP-10	0	70	0	0	0	70
LCAC SLEP	36	07	MAR-07	FEB-08	FEB-09	MAR-09	MAY-09	JUN-09	SEP-10	0	70	134	0	0	204
LCAC SLEP	48	07	MAR-07	JUN-08	JUN-09	JUL-09	SEP-09	OCT-09	SEP-10	0	70	134	0	0	204
LCAC SLEP	50	07	MAR-07	MAR-08	MAR-09	APR-09	JUN-09	JUL-09	SEP-10	0	70	134	0	0	204
LCAC SLEP	69	07	MAR-07	JUN-08	JUN-09	JUL-09	SEP-09	OCT-09	SEP-10	0	70	134	0	0	204
LCAC SLEP	30	08	DEC-07	FEB-09	FEB-10	MAR-10	MAY-10	JUN-10	JUN-11	0	0	0	75	0	75
LCAC SLEP	41	08	DEC-07	MAR-09	MAR-10	APR-10	JUN-10	JUL-10	JUN-11	0	0	0	75	0	75
LCAC SLEP	46	08	DEC-07	JUN-09	JUN-10	JUL-10	SEP-10	OCT-10	JUN-11	0	0	0	74	0	74
LCAC SLEP	53	08	DEC-07	JUN-09	JUN-10	JUL-10	SEP-10	OCT-10	JUN-11	0	0	0	75	0	75
LCAC SLEP	56	08	DEC-07	MAR-09	MAR-10	APR-10	JUN-10	JUL-10	JUN-11	0	0	0	75	0	75
LCAC SLEP	59	09	DEC-08	FEB-10	FEB-11	MAR-11	MAY-11	JUN-11	JUN-12	0	0	0	0	74	74
LCAC SLEP	61	09	DEC-08	MAR-10	MAR-11	APR-11	JUN-11	JUL-11	JUN-12	0	0	0	0	75	75
LCAC SLEP	67	09	DEC-08	FEB-10	FEB-11	MAR-11	MAY-11	JUN-11	JUN-12	0	0	0	0	75	75

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APPROPRIATION/BUDGET ACTIVITY SHIPBUILDING AND CONVERSION, NAVY/BA 5									P-1 LINE ITEM NOMENCLATURE OUTFITTING BLI: 5110/SUBHEAD NO. 8560						
Ship Type	HULL NO	PROG YEAR	Contract Award	Start of Constr.	DEL DATE	CFO DATE	PSA START	PSA FINISH	OWLD	PRIOR YEARS	FY 2007	FY 2008	FY 2009	TO COMP	TOTAL
LCAC SLEP	70	09	DEC-08	MAR-10	MAR-11	APR-11	JUN-11	JUL-11	JUN-12	0	0	0	0	75	75
LCAC SLEP	71	09	DEC-08	JUN-10	JUN-11	JUL-11	SEP-11	OCT-11	JUN-12	0	0	0	0	75	75
LCAC SLEP	73	09	DEC-08	JUN-10	JUN-11	JUL-11	SEP-11	OCT-11	JUN-12	0	0	0	0	75	75
LCAC SLEP	27	10	DEC-09	MAR-11	MAR-12	APR-12	JUN-12	JUL-12	SEP-13	0	0	0	0	76	76
LCAC SLEP	38	10	DEC-09	JUN-11	JUN-12	JUL-12	SEP-12	OCT-12	SEP-13	0	0	0	0	77	77
LCAC SLEP	49	10	DEC-09	SEP-11	SEP-12	OCT-12	DEC-12	JAN-13	SEP-13	0	0	0	0	77	77
LCAC SLEP	52	10	DEC-09	FEB-11	FEB-12	MAR-12	MAY-12	JUN-12	SEP-13	0	0	0	0	75	75
LCAC SLEP	57	10	DEC-09	JUN-11	JUN-12	JUL-12	SEP-12	OCT-12	SEP-13	0	0	0	0	77	77
LCAC SLEP	58	10	DEC-09	MAR-11	MAR-12	APR-12	JUN-12	JUL-12	SEP-13	0	0	0	0	77	77
LCAC SLEP	55	11	DEC-10	FEB-12	FEB-13	MAR-13	MAY-13	JUN-13	JUN-14	0	0	0	0	75	75
LCAC SLEP	60	11	DEC-10	MAR-12	MAR-13	APR-13	JUN-13	JUL-13	JUN-14	0	0	0	0	75	75
LCAC SLEP	62	11	DEC-10	FEB-12	FEB-13	MAR-13	MAY-13	JUN-13	JUN-14	0	0	0	0	75	75
LCAC SLEP	63	11	DEC-10	MAR-12	MAR-13	APR-13	JUN-13	JUL-13	JUN-14	0	0	0	0	75	75
LCAC SLEP	64	11	DEC-10	JUN-12	JUN-13	JUL-13	SEP-13	OCT-13	JUN-14	0	0	0	0	76	76
LCAC SLEP	77	11	DEC-10	JUN-12	JUN-13	JUL-13	SEP-13	OCT-13	JUN-14	0	0	0	0	76	76
LCAC SLEP	51	12	DEC-11	FEB-13	FEB-14	MAR-14	MAY-14	JUN-14	JUN-15	0	0	0	0	76	76
LCAC SLEP	65	12	DEC-11	FEB-13	FEB-14	MAR-14	MAY-14	JUN-14	JUN-15	0	0	0	0	76	76
LCAC SLEP	66	12	DEC-11	MAR-13	MAR-14	APR-14	JUN-14	JUL-14	JUN-15	0	0	0	0	76	76
LCAC SLEP	75	12	DEC-11	MAR-13	MAR-14	APR-14	JUN-14	JUL-14	JUN-15	0	0	0	0	76	76
LCAC SLEP	78	12	DEC-11	JUN-13	JUN-14	JUL-14	SEP-14	OCT-14	JUN-15	0	0	0	0	76	76
LCAC SLEP	79	12	DEC-11	JUN-13	JUN-14	JUL-14	SEP-14	OCT-14	JUN-15	0	0	0	0	78	78
LCAC SLEP	72	13	DEC-12	FEB-14	FEB-15	MAR-15	MAY-15	JUN-15	JUN-16	0	0	0	0	78	78
LCAC SLEP	74	13	DEC-12	MAR-14	MAR-15	APR-15	JUN-15	JUL-15	JUN-16	0	0	0	0	78	78
LCAC SLEP	76	13	DEC-12	JUN-14	JUN-15	JUL-15	SEP-15	OCT-15	JUN-16	0	0	0	0	78	78
LCAC SLEP	83	13	DEC-12	FEB-14	FEB-15	MAR-15	MAY-15	JUN-15	JUN-16	0	0	0	0	78	78
LCAC SLEP	84	13	DEC-12	MAR-14	MAR-15	APR-15	JUN-15	JUL-15	JUN-16	0	0	0	0	78	78
LCAC SLEP	85	13	DEC-12	JUN-14	JUN-15	JUL-15	SEP-15	OCT-15	JUN-16	0	0	0	0	78	78
									LCAC SLEP Total	**1755**	**1358**	**670**	**374**	**2286**	**6443**
LHA	6	07	JUN-07	APR-08	AUG-12	JAN-13	OCT-13	DEC-13	DEC-13	0	0	0	0	62782	62782
									LHA Total	**0**	**0**	**0**	**0**	**62782**	**62782**
LHD	8	02	APR-02	MAY-03	NOV-08	APR-09	OCT-09	FEB-10	MAR-10	22713	3832	11273	4148	0	41966

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APPROPRIATION/BUDGET ACTIVITY SHIPBUILDING AND CONVERSION, NAVY/BA 5									P-1 LINE ITEM NOMENCLATURE OUTFITTING BLI: 5110/SUBHEAD NO. 8560						
Ship Type	HULL NO	PROG YEAR	Contract Award	Start of Constr.	DEL DATE	CFO DATE	PSA START	PSA FINISH	OWLD	PRIOR YEARS	FY 2007	FY 2008	FY 2009	TO COMP	TOTAL
LHD KATRINA	8	02	APR-02	MAY-03	NOV-08	APR-09	OCT-09	FEB-10	MAR-10	200	0	0	0	0	200
									LHD Total	**22913**	**3832**	**11273**	**4148**	**0**	**42166**
LPD	17	96	DEC-96	JUN-00	JUL-05	MAR-06	MAY-07	JUL-07	FEB-08	27517	2913	150	0	0	30580
LPD	18	99	DEC-98	FEB-02	DEC-06	JUL-07	MAY-08	JUL-08	SEP-08	27023	2311	1210	0	0	30544
LPD KATRINA	18	99	DEC-98	FEB-02	DEC-06	JUL-07	MAY-08	JUL-08	SEP-08	500	0	0	0	0	500
LPD	19	00	FEB-00	JUL-01	SEP-07	MAR-08	JUL-08	SEP-08	FEB-09	24091	3065	2180	0	0	29336
LPD KATRINA	19	00	FEB-00	JUL-01	SEP-07	MAR-08	JUL-08	SEP-08	FEB-09	1200	0	0	0	0	1200
LPD	20	00	MAY-00	OCT-02	OCT-08	FEB-09	SEP-09	NOV-09	JAN-10	15017	5089	6808	1522	688	29124
LPD KATRINA	20	00	MAY-00	OCT-02	OCT-08	FEB-09	SEP-09	NOV-09	JAN-10	1100	0	0	0	0	1100
LPD	21	03	NOV-03	MAR-04	JUN-09	NOV-09	JUN-10	AUG-10	OCT-10	1513	12963	4102	7135	3477	29190
LPD	22	04	JUN-06	JUL-06	AUG-10	JAN-11	AUG-11	NOV-11	DEC-11	0	0	4140	14075	12026	30241
LPD	23	05	JUN-06	MAR-07	FEB-11	JUL-11	FEB-12	MAY-12	JUN-12	0	0	0	7595	25925	33520
LPD	24	06	NOV-06	AUG-07	AUG-11	JAN-12	AUG-12	NOV-12	DEC-12	0	0	0	5595	28526	34121
LPD	25	08	DEC-07	APR-08	FEB-12	JUN-12	JAN-13	APR-13	MAY-13	0	0	0	0	34304	34304
									LPD Total	**97961**	**26341**	**18590**	**35922**	**104946**	**283760**
VIRGINIA	774	98	SEP-98	AUG-97	OCT-04	OCT-04	JAN-06	MAR-07	SEP-07	15212	899	0	0	0	16111
VIRGINIA	775	99	SEP-98	AUG-98	JUN-06	JUN-06	JAN-07	FEB-08	DEC-08	13084	2610	337	0	0	16031
VIRGINIA	776	01	SEP-98	OCT-99	DEC-06	DEC-06	MAY-08	FEB-09	MAR-09	13959	383	183	63	0	14588
VIRGINIA	777	02	SEP-98	APR-01	JAN-08	FEB-08	JAN-09	OCT-09	MAY-10	13013	670	444	235	71	14433
VIRGINIA	778	03	AUG-03	OCT-02	APR-09	APR-09	MAY-09	NOV-09	OCT-10	8393	1465	5833	308	223	16222
VIRGINIA	779	04	JAN-04	MAR-04	APR-10	APR-10	JUN-10	DEC-10	OCT-11	0	4348	5144	8210	535	18237
VIRGINIA	780	05	JAN-04	FEB-05	APR-11	APR-11	MAY-11	NOV-11	OCT-12	0	0	7474	1204	8666	17344
VIRGINIA	781	06	JAN-04	FEB-06	APR-12	APR-12	MAY-12	NOV-12	MAR-13	0	0	200	7977	10088	18265
VIRGINIA	782	07	JAN-04	FEB-07	APR-13	APR-13	NOV-12	MAY-13	MAR-14	0	0	0	211	18602	18813
VIRGINIA	783	08	JAN-04	FEB-08	APR-14	APR-14	OCT-13	MAY-14	MAR-15	0	0	0	0	18985	18985
VIRGINIA	784	09	DEC-08	DEC-08	TBD	TBD	TBD	TBD	TBD	0	0	0	0	19365	19365
VIRGINIA	785	10	DEC-08	TBD	TBD	TBD	TBD	TBD	TBD	0	0	0	0	19752	19752
VIRGINIA	786	11	DEC-08	TBD	TBD	TBD	TBD	TBD	TBD	0	0	0	0	20147	20147
VIRGINIA	787	11	DEC-08	TBD	TBD	TBD	TBD	TBD	TBD	0	0	0	0	20550	20550
VIRGINIA	788	12	DEC-08	TBD	TBD	TBD	TBD	TBD	TBD	0	0	0	0	20550	20550
VIRGINIA	789	12	DEC-08	TBD	TBD	TBD	TBD	TBD	TBD	0	0	0	0	20961	20961

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Ship Type	HULL NO	PROG YEAR	Contract Award	Start of Constr.	DEL DATE	CFO DATE	PSA START	PSA FINISH	OWLD	PRIOR YEARS	FY 2007	FY 2008	FY 2009	TO COMP	TOTAL
VIRGINIA	790	13	DEC-08	TBD	TBD	TBD	TBD	TBD	TBD	0	0	0	0	20961	20961
									VIRGINIA Total	**63661**	**10375**	**19615**	**18208**	**199456**	**311315**
SSGN	726	03	NOV-03	NOV-03	DEC-05	DEC-05	N/A	N/A	DEC-07	4491	393	3	0	0	4887
SSGN	728	03	MAR-04	APR-04	APR-06	APR-06	N/A	N/A	MAR-08	2824	1321	43	0	0	4188
SSGN	727	04	JAN-05	JAN-05	DEC-06	DEC-06	N/A	N/A	AUG-08	4435	87	44	0	0	4566
SSGN	729	05	OCT-05	OCT-05	NOV-07	NOV-07	N/A	N/A	OCT-08	4298	1302	577	0	0	6177
									SSGN Total	**16048**	**3103**	**667**	**0**	**0**	**19818**
SSBN ERO	730	05	MAR-03	NOV-04	MAR-07	MAR-07	N/A	N/A	FEB-08	1283	124	102	0	0	1509
SSBN ERO	731	06	MAY-04	JAN-06	APR-08	APR-08	N/A	N/A	MAR-09	915	489	311	31	0	1746
SSBN ERO	732	07	FEB-05	NOV-06	FEB-09	FEB-09	N/A	N/A	JAN-10	0	409	844	792	20	2065
SSBN ERO	733	08	FEB-06	JAN-08	APR-10	APR-10	N/A	N/A	MAR-11	0	0	470	937	2336	3743
SSBN ERO	734	09	FEB-07	JAN-09	APR-11	APR-11	N/A	N/A	MAR-12	0	0	0	1011	1834	2845
SSBN ERO	735	10	MAY-08	JAN-10	APR-12	APR-12	N/A	N/A	MAR-13	0	0	0	0	2900	2900
SSBN ERO	736	11	MAY-09	JAN-11	APR-13	APR-13	N/A	N/A	MAR-14	0	0	0	0	2954	2954
									SSBN ERO Total	**2198**	**1022**	**1727**	**2771**	**10044**	**17762**
SSN ERO	698	03	OCT-02	MAR-04	MAR-07	MAR-07	N/A	N/A	FEB-08	2085	249	10	0	0	2344
SSN ERO	699	04	OCT-03	SEP-04	DEC-06	DEC-06	N/A	N/A	NOV-07	1160	238	0	0	0	1398
SSN ERO	717	04	OCT-03	MAR-06	SEP-08	SEP-08	N/A	N/A	AUG-09	976	474	232	167	0	1849
									SSN ERO Total	**4221**	**961**	**242**	**167**	**0**	**5591**
PUBS	N/A	04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	39592	9084	8506	9696	46888	113766
									PUBS Total	**39592**	**9084**	**8506**	**9696**	**46888**	**113766**
SEABASE	01	11	DEC-10	APR-12	MAR-15	APR-15	MAY-15	JUL-15	MAR-16	0	0	0	0	1162	1162
SEABASE	02	13	MAR-13	JUN-14	SEP-16	OCT-16	NOV-16	JAN-17	SEP-17	0	0	0	0	1209	1209
SEABASE	03	13	MAR-13	AUG-14	JUN-16	JUL-16	AUG-16	SEP-16	SEP-17	0	0	0	0	1209	1209
SEABASE	04	13	MAR-13	OCT-14	AUG-16	SEP-16	OCT-16	NOV-16	SEP-17	0	0	0	0	1209	1209
									SEABASE Total	**0**	**0**	**0**	**0**	**4789**	**4789**
TAGS	66	07	JUN-08	DEC-08	OCT-11	DEC-11	TBD	TBD	NOV-12	0	0	0	1215	2172	3387
									TAGS Total	**0**	**0**	**0**	**1215**	**2172**	**3387**
AGOR	1101	11	FEB-11	NOV-11	FEB-14	MAY-14	TBD	TBD	APR-15	0	0	0	0	1375	1375
AGOR	1201	12	FEB-12	AUG-12	AUG-14	NOV-14	TBD	TBD	OCT-15	0	0	0	0	1403	1403
									AGOR Total	**0**	**0**	**0**	**0**	**2778**	**2778**

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Ship Type	HULL NO	PROG YEAR	Contract Award	Start of Constr.	DEL DATE	CFO DATE	PSA START	PSA FINISH	OWLD	PRIOR YEARS	FY 2007	FY 2008	FY 2009	TO COMP	TOTAL
YC	1674	04	NOV-06	FEB-07	JAN-08	MAR-08	N/A	N/A	JAN-09	0	0	0	0	0	0
YC	1675	04	NOV-06	FEB-07	JAN-08	MAR-08	N/A	N/A	JAN-09	0	0	0	0	0	0
YC	1672	05	MAR-05	JUL-05	OCT-06	DEC-06	N/A	N/A	NOV-07	1	0	0	0	0	1
YC	1673	05	MAR-05	JUL-05	OCT-06	DEC-06	N/A	N/A	NOV-07	8	0	0	0	0	8
									YC Total	**9**	**0**	**0**	**0**	**0**	**9**
YON	0326	05	MAY-05	OCT-05	DEC-06	FEB-07	N/A	N/A	JAN-08	31	0	0	0	0	31
YON	0327	06	JUL-06	AUG-06	JAN-08	MAR-08	N/A	N/A	FEB-09	0	45	0	0	0	45
YON	0328	07	DEC-06	FEB-07	DEC-08	FEB-09	N/A	N/A	JAN-10	0	0	35	0	0	35
YON	0329	08	AUG-08	JAN-09	JAN-10	MAR-10	N/A	N/A	FEB-11	0	0	35	0	0	35
YON	0330	08	AUG-08	MAY-09	MAY-10	JUL-10	N/A	N/A	JUN-11	0	0	35	0	0	35
YON	0901	09	JAN-09	JAN-10	JAN-11	MAR-11	N/A	N/A	FEB-12	0	0	0	37	0	37
YON	1001	10	JAN-10	JAN-11	JAN-12	MAR-12	N/A	N/A	FEB-13	0	0	0	0	38	38
YON	1101	11	JAN-11	JAN-12	JAN-13	MAR-13	N/A	N/A	FEB-14	0	0	0	0	39	39
YON	1201	12	JAN-12	JAN-13	JAN-14	MAR-14	N/A	N/A	FEB-15	0	0	0	0	40	40
YON	1301	13	JAN-13	JAN-14	JAN-15	MAR-15	N/A	N/A	FEB-16	0	0	0	0	41	41
									YON Total	**31**	**45**	**105**	**37**	**158**	**376**
YP	0703	06	MAY-07	MAY-07	APR-09	JUN-09	N/A	N/A	MAY-10	0	0	475	91	0	566
YP	0704	06	MAY-07	JUL-07	OCT-09	DEC-09	N/A	N/A	NOV-10	0	0	0	0	0	0
YP	0705	07	DEC-07	FEB-09	FEB-10	APR-10	N/A	N/A	MAR-11	0	0	0	96	0	96
YP	0706	08	JUN-08	JUN-09	JUN-10	AUG-10	N/A	N/A	JUL-11	0	0	0	576	0	576
YP	0901	09	JAN-09	OCT-09	OCT-10	DEC-10	N/A	N/A	NOV-11	0	0	0	109	193	302
YP	0902	09	JAN-09	JAN-10	JAN-11	MAR-11	N/A	N/A	FEB-12	0	0	0	109	193	302
YP	1001	10	JAN-10	JAN-11	JAN-12	MAR-12	N/A	N/A	FEB-13	0	0	0	0	314	314
YP	1002	10	JAN-10	JAN-11	JAN-12	MAR-12	N/A	N/A	FEB-13	0	0	0	0	315	315
YP	1101	11	JAN-11	JAN-12	JAN-13	MAR-13	N/A	N/A	FEB-14	0	0	0	0	322	322
YP	1102	11	JAN-11	MAR-11	AUG-12	OCT-12	N/A	N/A	SEP-13	0	0	0	0	321	321
YP	1201	12	JAN-12	sep-12	SEP-13	NOV-13	N/A	N/A	OCT-14	0	0	0	0	332	332
YP	1202	12	JAN-12	SEP-12	SEP-13	NOV-13	N/A	N/A	OCT-14	0	0	0	0	331	331
YP	1301	13	JAN-13	AUG-13	AUG-14	OCT-14	N/A	N/A	SEP-15	0	0	0	0	332	332
YP	1302	13	JAN-13	AUG-13	AUG-14	OCT-14	N/A	N/A	SEP-15	0	0	0	0	331	331
									YP Total	**0**	**0**	**475**	**981**	**2984**	**4440**

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Ship Type	HULL NO	PROG YEAR	Contract Award	Start of Constr.	DEL DATE	CFO DATE	PSA START	PSA FINISH	OWLD	PRIOR YEARS	FY 2007	FY 2008	FY 2009	TO COMP	TOTAL
YTB	0039	06	MAY-06	MAY-06	DEC-06	FEB-07	N/A	N/A	JAN-08	0	0	0	0	0	0
YTB	0040	06	MAY-06	MAY-06	DEC-06	FEB-07	N/A	N/A	JAN-08	0	0	0	0	0	0
YTB	0841	07	AUG-07	SEP-07	SEP-08	NOV-08	N/A	N/A	OCT-09	0	0	0	0	0	0
YTB	0842	07	AUG-07	NOV-07	NOV-08	JAN-09	N/A	N/A	DEC-09	0	0	0	0	0	0
YTB	0843	07	AUG-07	JAN-08	JAN-09	MAR-09	N/A	N/A	FEB-10	0	0	0	0	0	0
YTB	0801	08	JAN-08	MAR-08	MAR-09	MAY-10	N/A	N/A	APR-10	0	0	0	0	0	0
YTB	0901	09	JAN-09	MAR-09	MAR-10	MAY-10	N/A	N/A	APR-11	0	0	0	0	0	0
									YTB Total	**0**	**0**	**0**	**0**	0	**0**
									Full Funding TOA-Outfitting Total	**393348**	**138397**	**137792**	**141336**	**1474835**	**2285708**

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Ship Type	HULL NO	PROG YEAR	Contract Award	Start of Constr.	DEL DATE	CFO DATE	PSA START	PSA FINISH	OWLD	PRIOR YEARS	FY 2007	FY 2008	FY 2009	TO COMP	TOTAL
CVN	77	01	JAN-01	MAR-01	NOV-08	FEB-09	MAR-09	AUG-09	JAN-10	0	0	5543	43679	0	49222
CVN	78	08	JUN-08	JUN-08	SEP-15	NOV-15	JUN-16	SEP-16	OCT-16	0	0	0	0	81370	81370
CVN	79	12	DEC-11	MAR-12	SEP-19	NOV-19	JUN-20	SEP-20	OCT-20	0	0	0	0	99550	99550
									CVN Total	**0**	**0**	**5543**	**43679**	**180920**	**230142**
CVN-RCOH	70	06	NOV-05	NOV-05	MAR-09	MAY-09	JUL-09	NOV-09	APR-10	0	0	760	40849	0	41609
CVN-RCOH	71	09	SEP-09	SEP-09	DEC-12	FEB-13	MAR-13	MAY-13	JAN-14	0	0	0	0	43017	43017
CVN-RCOH	72	13	FEB-13	FEB-13	MAY-16	JUL-16	JUL-16	SEP-16	JUN-17	0	0	0	0	47796	47796
									CVN-RCOH Total	**0**	**0**	**760**	**40849**	**90813**	**132422**
DDG	098	00	MAR-98	JUL-02	AUG-05	DEC-05	AUG-06	NOV-06	MAY-07	28940	1081	0	0	0	30021
DDG KATRINA	098	00	MAR-98	JUL-02	AUG-05	DEC-05	AUG-06	NOV-06	MAY-07	5700	0	0	0	0	5700
DDG	099	01	MAR-98	DEC-02	JAN-06	MAY-06	FEB-07	MAY-07	OCT-07	32158	2970	0	0	0	35128
DDG	100	01	MAR-98	JAN-03	DEC-06	MAY-07	JAN-08	APR-08	AUG-08	8099	19990	0	0	0	28089
DDG	101	01	MAR-98	JUL-03	SEP-06	JAN-07	AUG-07	NOV-07	DEC-07	13027	23030	0	0	0	36057
DDG	102	02	JUL-02	FEB-04	MAY-07	OCT-07	JUN-08	SEP-08	SEP-08	631	19403	15363	0	0	35397
DDG	103	02	SEP-02	MAY-04	OCT-08	APR-09	SEP-09	DEC-09	MAR-10	0	0	8245	25345	0	33590
DDG	104	02	SEP-02	OCT-04	FEB-08	JUN-08	MAR-09	JUN-09	MAY-09	0	4793	28805	0	0	33598
DDG	105	03	SEP-02	APR-05	APR-09	AUG-09	MAY-10	AUG-10	JUL-10	0	0	7480	13956	12598	34034
DDG	106	03	SEP-02	MAY-05	AUG-08	JAN-09	SEP-09	DEC-09	DEC-09	0	0	14530	20010	0	34540
DDG	107	04	SEP-02	FEB-06	FEB-10	JUN-10	FEB-11	JUN-11	MAY-11	0	0	0	2430	35813	38243
DDG	108	04	SEP-02	DEC-05	MAY-09	AUG-09	JUN-10	SEP-10	JUL-10	0	0	0	16487	21858	38345
DDG	109	04	SEP-02	JUL-06	JAN-10	MAY-10	JAN-11	APR-11	APR-11	0	0	0	4083	34296	38379
DDG	110	05	SEP-02	MAY-07	SEP-10	JAN-11	JUL-11	OCT-11	DEC-11	0	0	0	0	38400	38400
DDG	111	05	SEP-02	APR-07	AUG-10	DEC-10	AUG-11	NOV-11	NOV-11	0	0	0	0	37676	37676
DDG	112	05	SEP-02	FEB-08	APR-11	AUG-11	MAR-12	JUL-12	JUL-12	0	0	0	0	38299	38299
									DDG Total	**88555**	**71267**	**74423**	**82311**	**218940**	**535496**
DDG 1000	1000	07	JAN-08	JUL-08	DEC-12	TBD	TBD	TBD	NOV-13	0	0	0	0	94841	94841
DDG 1000	1001	07	JAN-08	SEP-09	FEB-14	TBD	TBD	TBD	JUN-15	0	0	0	0	67150	67150
DDG 1000	1002	09	JAN-09	JUL-10	DEC-14	TBD	TBD	TBD	NOV-15	0	0	0	0	63533	63533
DDG 1000	1003	10	JAN-10	JUL-11	JUL-15	TBD	TBD	TBD	JUN-16	0	0	0	0	64804	64804
DDG 1000	1004	11	JAN-11	JUL-12	JAN-16	TBD	TBD	TBD	DEC-16	0	0	0	0	66100	66100

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APPROPRIATION/BUDGET ACTIVITY SHIPBUILDING AND CONVERSION, NAVY/BA 5									P-1 LINE ITEM NOMENCLATURE OUTFITTING BLI: 5110/SUBHEAD NO. 8560						
Ship Type	HULL NO	PROG YEAR	Contract Award	Start of Constr.	DEL DATE	CFO DATE	PSA START	PSA FINISH	OWLD	PRIOR YEARS	FY 2007	FY 2008	FY 2009	TO COMP	TOTAL
DDG 1000	1005	12	JAN-12	JUL-13	JUL-17	TBD	TBD	TBD	JUN-18	0	0	0	0	67422	67422
DDG 1000	1006	13	JAN-13	JUL-14	JAN-18	TBD	TBD	TBD	DEC-18	0	0	0	0	68770	68770
									DDG 1000 Total	**0**	**0**	**0**	**0**	**492620**	**492620**
JHSV	0901	09	MAR-09	MAR-10	MAR-12	MAY-12	TBD	TBD	APR-13	0	0	0	0	10000	10000
JHSV	1001	10	MAR-10	MAR-11	JAN-13	MAR-13	TBD	TBD	FEB-14	0	0	0	0	9000	9000
JHSV	1101	11	MAR-11	MAR-12	JAN-14	MAR-14	TBD	TBD	FEB-15	0	0	0	0	9180	9180
JHSV	1201	12	MAR-12	MAR-13	JAN-15	MAR-15	TBD	TBD	FEB-16	0	0	0	0	9364	9364
JHSV	1301	13	MAR-13	MAR-14	JAN-16	MAR-16	TBD	TBD	FEB-17	0	0	0	0	9551	9551
									JHSV Total	**0**	**0**	**0**	**0**	**47095**	**47095**
LCS	5	08	JUN-08	MAR-09	NOV-11	FEB-12	OCT-12	JAN-13	JAN-13	0	0	0	0	32802	32802
LCS	6	09	JUN-09	MAR-10	NOV-12	FEB-13	OCT-13	JAN-14	JAN-14	0	0	0	0	32801	32801
LCS	7	09	JUN-09	MAY-10	JAN-13	APR-13	DEC-13	MAR-14	MAR-14	0	0	0	0	32801	32801
LCS	8	10	NOV-09	AUG-10	APR-13	JUL-13	MAR-14	JUN-14	JUN-14	0	0	0	0	24065	24065
LCS	9	10	NOV-09	OCT-10	JUN-13	SEP-13	MAY-14	AUG-14	AUG-14	0	0	0	0	24065	24065
LCS	10	10	NOV-09	DEC-10	AUG-13	NOV-13	JUL-14	OCT-14	OCT-14	0	0	0	0	24065	24065
LCS	11	11	NOV-10	AUG-11	APR-14	JUL-14	MAR-15	JUN-15	JUN-15	0	0	0	0	24907	24907
LCS	12	11	NOV-10	OCT-11	JUN-14	SEP-14	MAY-15	AUG-15	AUG-15	0	0	0	0	24907	24907
LCS	13	11	NOV-10	DEC-11	AUG-14	NOV-14	JUL-15	OCT-15	OCT-15	0	0	0	0	24907	24907
LCS	14	12	NOV-11	AUG-12	APR-15	JUL-15	MAR-16	JUN-16	JUN-16	0	0	0	0	25779	25779
LCS	15	12	NOV-11	OCT-12	JUN-15	SEP-15	MAY-16	AUG-16	AUG-16	0	0	0	0	25779	25779
LCS	16	12	NOV-11	DEC-12	AUG-15	NOV-15	JUL-16	OCT-16	OCT-16	0	0	0	0	25779	25779
LCS	17	12	NOV-11	FEB-13	OCT-15	JAN-16	SEP-16	DEC-16	DEC-16	0	0	0	0	25779	25779
LCS	18	13	NOV-12	AUG-13	APR-16	JUL-16	MAR-17	JUN-17	JUN-17	0	0	0	0	26681	26681
LCS	19	13	NOV-12	OCT-13	JUN-16	SEP-16	MAY-17	AUG-17	AUG-17	0	0	0	0	26681	26681
LCS	20	13	NOV-12	DEC-13	AUG-16	NOV-16	JUL-17	OCT-17	OCT-17	0	0	0	0	26681	26681
LCS	21	13	NOV-12	FEB-14	OCT-16	JAN-17	SEP-17	DEC-17	DEC-17	0	0	0	0	26681	26681
LCS	22	13	NOV-12	APR-14	DEC-16	MAR-17	NOV-17	FEB-18	FEB-18	0	0	0	0	26681	26681
LCS	23	13	NOV-12	JUN-14	FEB 17	MAY-17	JAN-18	APR-18	APR-18	0	0	0	0	26681	26681
									LCS Total	**0**	**0**	**0**	**0**	**508522**	**508522**

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Ship Type	HULL NO	PROG YEAR	Contract Award	Start of Constr.	DEL DATE	CFO DATE	PSA START	PSA FINISH	OWLD	PRIOR YEARS	FY 2007	FY 2008	FY 2009	TO COMP	TOTAL
LCAC SLEP	8	03	DEC-02	MAY-03	MAY-05	JUN-05	JAN-06	MAR-06	SEP-07	355	0	0	0	0	355
LCAC SLEP	9	03	DEC-02	JUL-03	AUG-05	AUG-05	MAR-06	MAY-06	SEP-07	355	0	0	0	0	355
LCAC SLEP	10	03	JUN-03	SEP-03	JAN-06	FEB-06	MAR-06	MAY-06	SEP-07	572	0	0	0	0	572
LCAC SLEP	21	03	DEC-02	NOV-03	SEP-06	OCT-06	NOV-06	JAN-07	SEP-07	601	0	0	0	0	601
LCAC SLEP	26	04	MAR-04	OCT-04	MAR-07	APR-07	MAY-07	JUN-07	DEC-08	354	0	0	0	0	354
LCAC SLEP	28	04	MAR-04	JAN-05	JUN-07	JUL-07	AUG-07	SEP-07	DEC-08	354	0	0	0	0	354
LCAC SLEP	39	04	MAR-04	MAR-05	SEP-07	OCT-07	NOV-07	DEC-07	DEC-08	318	0	0	0	0	318
LCAC SLEP	40	04	MAR-04	JUN-05	DEC-07	JAN-08	FEB-08	MAR-08	DEC-08	0	0	363	0	0	363
LCAC SLEP	37	05	JAN-05	MAY-05	SEP-07	NOV-07	DEC-07	JAN-08	JAN-09	363	257	0	0	0	620
LCAC SLEP	42	05	JAN-05	MAY-05	MAR-07	APR-07	JUN-07	JUL-07	JAN-09	150	0	236	0	0	386
LCAC SLEP	43	05	JAN-05	MAY-06	JAN-08	FEB-08	MAR-08	APR-08	JAN-09	0	0	363	0	0	363
LCAC SLEP	45	05	JAN-05	FEB-06	JUL-07	AUG-07	SEP-07	OCT-07	JAN-09	0	0	400	0	0	400
LCAC SLEP	47	05	JAN-05	JUL-06	JAN-08	FEB-08	MAR-08	APR-08	JAN-09	0	0	363	0	0	363
LCAC SLEP	29	06	AUG-06	JUN-07	FEB-08	MAR-08	APR-08	MAY-08	SEP-09	0	0	363	0	0	363
LCAC SLEP	32	06	AUG-06	SEP-07	SEP-08	OCT-08	NOV-08	DEC-08	SEP-09	0	0	363	0	0	363
LCAC SLEP	34	06	AUG-06	FEB-07	JUN-08	JUL-08	AUG-08	SEP-08	SEP-09	0	0	363	0	0	363
LCAC SLEP	54	06	AUG-06	MAR-07	FEB-08	MAR-08	APR-08	MAY-08	SEP-09	0	0	363	0	0	363
LCAC SLEP	68	06	AUG-06	JUN-07	MAY-08	JUN-08	JUL-08	AUG-08	SEP-09	0	0	363	0	0	363
LCAC SLEP	31	07	MAR-07	MAR-08	MAR-09	APR-09	JUN-09	JUL-09	SEP-10	0	0	0	380	0	380
LCAC SLEP	33	07	MAR-07	SEP-08	SEP-09	OCT-09	DEC-09	JAN-10	SEP-10	0	0	0	0	388	388
LCAC SLEP	36	07	MAR-07	FEB-08	FEB-09	MAR-09	MAY-09	JUN-09	SEP-10	0	0	0	380	0	380
LCAC SLEP	48	07	MAR-07	JUN-08	JUN-09	JUL-09	SEP-09	OCT-09	SEP-10	0	0	0	380	0	380
LCAC SLEP	50	07	MAR-07	MAR-08	MAR-09	APR-09	JUN-09	JUL-09	SEP-10	0	0	0	380	0	380
LCAC SLEP	69	07	MAR-07	JUN-08	JUN-09	JUL-09	SEP-09	OCT-09	SEP-10	0	0	0	380	0	380
LCAC SLEP	30	08	DEC-07	FEB-09	FEB-10	MAR-10	MAY-10	JUN-10	JUN-11	0	0	0	0	388	388
LCAC SLEP	41	08	DEC-07	MAR-09	MAR-10	APR-10	JUN-10	JUL-10	JUN-11	0	0	0	0	388	388
LCAC SLEP	46	08	DEC-07	JUN-09	JUN-10	JUL-10	SEP-10	OCT-10	JUN-11	0	0	0	0	396	396
LCAC SLEP	53	08	DEC-07	JUN-09	JUN-10	JUL-10	SEP-10	OCT-10	JUN-11	0	0	0	0	388	388
LCAC SLEP	56	08	DEC-07	MAR-09	MAR-10	APR-10	JUN-10	JUL-10	JUN-11	0	0	0	0	388	388
LCAC SLEP	59	09	DEC-08	FEB-10	FEB-11	MAR-11	MAY-11	JUN-11	JUN-12	0	0	0	0	396	396
LCAC SLEP	61	09	DEC-08	MAR-10	MAR-11	APR-11	JUN-11	JUL-11	JUN-12	0	0	0	0	396	396

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Ship Type	HULL NO	PROG YEAR	Contract Award	Start of Constr.	DEL DATE	CFO DATE	PSA START	PSA FINISH	OWLD	PRIOR YEARS	FY 2007	FY 2008	FY 2009	TO COMP	TOTAL
LCAC SLEP	67	09	DEC-08	FEB-10	FEB-11	MAR-11	MAY-11	JUN-11	JUN-12	0	0	0	0	396	396
LCAC SLEP	70	09	DEC-08	MAR-10	MAR-11	APR-11	JUN-11	JUL-11	JUN-12	0	0	0	0	396	396
LCAC SLEP	71	09	DEC-08	JUN-10	JUN-11	JUL-11	SEP-11	OCT-11	JUN-12	0	0	0	0	405	405
LCAC SLEP	73	09	DEC-08	JUN-10	JUN-11	JUL-11	SEP-11	OCT-11	JUN-12	0	0	0	0	405	405
LCAC SLEP	27	10	DEC-09	MAR-11	MAR-12	APR-12	JUN-12	JUL-12	SEP-13	0	0	0	0	405	405
LCAC SLEP	38	10	DEC-09	JUN-11	JUN-12	JUL-12	SEP-12	OCT-12	SEP-13	0	0	0	0	405	405
LCAC SLEP	49	10	DEC-09	SEP-11	SEP-12	OCT-12	DEC-12	JAN-13	SEP-13	0	0	0	0	413	413
LCAC SLEP	52	10	DEC-09	FEB-11	FEB-12	MAR-12	MAY-12	JUN-12	SEP-13	0	0	0	0	405	405
LCAC SLEP	57	10	DEC-09	JUN-11	JUN-12	JUL-12	SEP-12	OCT-12	SEP-13	0	0	0	0	405	405
LCAC SLEP	58	10	DEC-09	MAR-11	MAR-12	APR-12	JUN-12	JUL-12	SEP-13	0	0	0	0	405	405
LCAC SLEP	55	11	DEC-10	FEB-12	FEB-13	MAR-13	MAY-13	JUN-13	JUN-14	0	0	0	0	413	413
LCAC SLEP	60	11	DEC-10	MAR-12	MAR-13	APR-13	JUN-13	JUL-13	JUN-14	0	0	0	0	413	413
LCAC SLEP	62	11	DEC-10	FEB-12	FEB-13	MAR-13	MAY-13	JUN-13	JUN-14	0	0	0	0	413	413
LCAC SLEP	63	11	DEC-10	MAR-12	MAR-13	APR-13	JUN-13	JUL-13	JUN-14	0	0	0	0	413	413
LCAC SLEP	64	11	DEC-10	JUN-12	JUN-13	JUL-13	SEP-13	OCT-13	JUN-14	0	0	0	0	422	422
LCAC SLEP	77	11	DEC-10	JUN-12	JUN-13	JUL-13	SEP-13	OCT-13	JUN-14	0	0	0	0	413	413
LCAC SLEP	51	12	DEC-11	FEB-13	FEB-14	MAR-14	MAY-14	JUN-14	JUN-15	0	0	0	0	422	422
LCAC SLEP	65	12	DEC-11	FEB-13	FEB-14	MAR-14	MAY-14	JUN-14	JUN-15	0	0	0	0	422	422
LCAC SLEP	66	12	DEC-11	MAR-13	MAR-14	APR-14	JUN-14	JUL-14	JUN-15	0	0	0	0	422	422
LCAC SLEP	75	12	DEC-11	MAR-13	MAR-14	APR-14	JUN-14	JUL-14	JUN-15	0	0	0	0	422	422
LCAC SLEP	78	12	DEC-11	JUN-13	JUN-14	JUL-14	SEP-14	OCT-14	JUN-15	0	0	0	0	422	422
LCAC SLEP	79	12	DEC-11	JUN-13	JUN-14	JUL-14	SEP-14	OCT-14	JUN-15	0	0	0	0	422	422
LCAC SLEP	72	13	DEC-12	FEB-14	FEB-15	MAR-15	MAY-15	JUN-15	JUN-16	0	0	0	0	431	431
LCAC SLEP	74	13	DEC-12	MAR-14	MAR-15	APR-15	JUN-15	JUL-15	JUN-16	0	0	0	0	431	431
LCAC SLEP	76	13	DEC-12	JUN-14	JUN-15	JUL-15	SEP-15	OCT-15	JUN-16	0	0	0	0	431	431
LCAC SLEP	83	13	DEC-12	FEB-14	FEB-15	MAR-15	MAY-15	JUN-15	JUN-16	0	0	0	0	431	431
LCAC SLEP	84	13	DEC-12	MAR-14	MAR-15	APR-15	JUN-15	JUL-15	JUN-16	0	0	0	0	431	431
LCAC SLEP	85	13	DEC-12	JUN-14	JUN-15	JUL-15	SEP-15	OCT-15	JUN-16	0	0	0	0	431	431
									LCAC SLEP Total	**3422**	**257**	**3540**	**1900**	**14773**	**23892**
LHA	6	07	JUN-07	APR-08	AUG-12	JAN-13	OCT-13	DEC-13	DEC-13	0	0	0	0	23347	23347
									LHA Total	**0**	**0**	**0**	**0**	**23347**	**23347**

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Ship Type	HULL NO	PROG YEAR	Contract Award	Start of Constr.	DEL DATE	CFO DATE	PSA START	PSA FINISH	OWLD	PRIOR YEARS	FY 2007	FY 2008	FY 2009	TO COMP	TOTAL
LHD	8	02	APR-02	MAY-03	NOV-08	APR-09	OCT-09	FEB-10	MAR-10	0	0	0	7600	20900	28500
									LHD Total	**0**	**0**	**0**	**7600**	**20900**	**28500**
LPD	17	96	DEC-96	JUN-00	JUL-05	MAR-06	MAY-07	JUL-07	FEB-08	121915	29582	4636	0	0	156133
LPD KATRINA	17	96	DEC-96	JUN-00	JUL-05	MAR-06	MAY-07	JUL-07	FEB-08	25600	0	0	0	0	25600
LPD	18	99	DEC-98	FEB-02	DEC-06	JUL-07	MAY-08	JUL-08	SEP-08	10980	22210	24289	0	0	57479
LPD	19	00	FEB-00	JUL-01	SEP-07	MAR-08	JUL-08	SEP-08	FEB-09	9673	12035	41381	0	0	63089
LPD	20	00	MAY-00	OCT-02	OCT-08	FEB-09	SEP-09	NOV-09	JAN-10	500	0	3867	26149	0	30516
LPD	21	03	NOV-03	MAR-04	JUN-09	NOV-09	JUN-10	AUG-10	OCT-10	0	0	0	8522	20794	29316
LPD	22	04	JUN-06	JUL-06	AUG-10	JAN-11	AUG-11	NOV-11	DEC-11	0	0	0	0	27029	27029
LPD	23	05	JUN-06	MAR-07	FEB-11	JUL-11	FEB-12	MAY-12	JUN-12	0	0	0	0	27668	27668
LPD	24	06	NOV-06	AUG-07	AUG-11	JAN-12	AUG-12	NOV-12	DEC-12	0	0	0	0	28325	28325
LPD	25	08	DEC-07	APR-08	FEB-12	JUN-12	JAN-13	APR-13	MAY-13	0	0	0	0	28920	28920
									LPD Total	**168668**	**63827**	**74173**	**34671**	**132736**	**474075**
VIRGINIA	774	98	SEP-98	AUG-97	OCT-04	OCT-04	JAN-06	MAR-07	SEP-07	74343	6273	0	0	0	80616
VIRGINIA	775	99	SEP-98	AUG-98	JUN-06	JUN-06	JAN-07	FEB-08	DEC-08	22119	47929	2529	0	0	72577
VIRGINIA	776	01	SEP-98	OCT-99	DEC-06	DEC-06	MAY-08	FEB-09	MAR-09	5556	20596	27735	5970	0	59857
VIRGINIA	777	02	SEP-98	APR-01	JAN-08	FEB-08	JAN-09	OCT-09	MAY-10	668	323	25941	37057	0	63989
VIRGINIA	778	03	AUG-03	OCT-02	APR-09	APR-09	MAY-09	NOV-09	OCT-10	0	0	6402	22524	31040	59966
VIRGINIA	779	04	JAN-04	MAR-04	APR-10	APR-10	JUN-10	DEC-10	OCT-11	0	0	0	6572	51268	57840
VIRGINIA	780	05	JAN-04	FEB-05	APR-11	APR-11	MAY-11	NOV-11	OCT-12	0	0	0	270	52816	53086
VIRGINIA	781	06	JAN-04	FEB-06	APR-12	APR-12	MAY-12	NOV-12	MAR-13	0	0	0	0	54227	54227
VIRGINIA	782	07	JAN-04	FEB-07	APR-13	APR-13	NOV-12	MAY-13	MAR-14	0	0	0	0	55372	55372
VIRGINIA	783	08	JAN-04	FEB-08	APR-14	APR-14	OCT-13	MAY-14	MAR-15	0	0	0	0	56535	56535
VIRGINIA	784	09	DEC-08	DEC-08	TBD	TBD	TBD	TBD	TBD	0	0	0	0	57722	57722
VIRGINIA	785	10	DEC-08	TBD	TBD	TBD	TBD	TBD	TBD	0	0	0	0	58934	58934
VIRGINIA	786	11	DEC-08	TBD	TBD	TBD	TBD	TBD	TBD	0	0	0	0	60172	60172
VIRGINIA	787	11	DEC-08	TBD	TBD	TBD	TBD	TBD	TBD	0	0	0	0	61436	61436
VIRGINIA	788	12	DEC-08	TBD	TBD	TBD	TBD	TBD	TBD	0	0	0	0	62726	62726
VIRGINIA	789	12	DEC-08	TBD	TBD	TBD	TBD	TBD	TBD	0	0	0	0	64043	64043
VIRGINIA	790	13	DEC-08	TBD	TBD	TBD	TBD	TBD	TBD	0	0	0	0	65388	65388

CLASSIFICATION:	UNCLASSIFIED														
BUDGET ITEM JUSTIFICATION SHEET(P-30) FY 2009 President's Budget													DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY SHIPBUILDING AND CONVERSION, NAVY/BA 5									P-1 LINE ITEM NOMENCLATURE OUTFITTING BLI: 5110/SUBHEAD NO. 8560						
Ship Type	HULL NO	PROG YEAR	Contract Award	Start of Constr.	DEL DATE	CFO DATE	PSA START	PSA FINISH	OWLD	PRIOR YEARS	FY 2007	FY 2008	FY 2009	TO COMP	TOTAL
									VIRGINIA Total	**102686**	**75121**	**62607**	**72393**	**731679**	**1044486**
SSGN	726	03	NOV-03	NOV-03	DEC-05	DEC-05	N/A	N/A	DEC-07	9232	5502	100	0	0	14834
SSGN	728	03	MAR-04	APR-04	APR-06	APR-06	N/A	N/A	MAR-08	4082	1824	470	0	0	6376
SSGN	727	04	JAN-05	JAN-05	DEC-06	DEC-06	N/A	N/A	AUG-08	0	9376	3321	0	0	12697
SSGN	729	05	OCT-05	OCT-05	NOV-07	NOV-07	N/A	N/A	OCT-08	0	0	9751	0	0	9751
									SSGN Total	**13314**	**16702**	**13642**	**0**	**0**	**43658**
SSBN ERO	730	05	MAR-03	NOV-04	MAR-07	MAR-07	N/A	N/A	FEB-08	0	0	0	0	0	0
SSBN ERO	731	06	MAY-04	JAN-06	APR-08	APR-08	N/A	N/A	MAR-09	0	0	0	0	0	0
SSBN ERO	732	07	FEB-05	NOV-06	FEB-09	FEB-09	N/A	N/A	JAN-10	0	0	0	0	0	0
SSBN ERO	733	08	FEB-06	JAN-08	APR-10	APR-10	N/A	N/A	MAR-11	0	0	0	0	0	0
SSBN ERO	734	09	FEB-07	JAN-09	APR-11	APR-11	N/A	N/A	MAR-12	0	0	0	0	0	0
SSBN ERO	735	10	MAY-08	JAN-10	APR-12	APR-12	N/A	N/A	MAR-13	0	0	0	0	0	0
SSBN ERO	736	11	MAY-09	JAN-11	APR-13	APR-13	N/A	N/A	MAR-14	0	0	0	0	0	0
									SSBN ERO Total	**0**	**0**	**0**	**0**	**0**	**0**
SSN ERO	698	03	OCT-02	MAR-04	MAR-07	MAR-07	N/A	N/A	FEB-08	0	0	0	0	0	0
SSN ERO	699	04	OCT-03	SEP-04	DEC-06	DEC-06	N/A	N/A	NOV-07	0	0	0	0	0	0
SSN ERO	717	04	OCT-03	MAR-06	SEP-08	SEP-08	N/A	N/A	AUG-09	0	0	0	0	0	0
									SSN ERO Total	**0**	**0**	**0**	**0**	**0**	**0**
SEABASE CONNECTOR	01	11	DEC-10	APR-12	MAR-15	APR-15	MAY-15	JUL-15	MAR-16	0	0	0	0	0	0
SEABASE CONNECTOR	02	13	MAR-13	JUN-14	SEP-16	OCT-16	NOV-16	JAN-17	SEP-17	0	0	0	0	0	0
SEABASE CONNECTOR	03	13	MAR-13	AUG-14	JUN-16	JUL-16	AUG-16	SEP-16	SEP-17	0	0	0	0	0	0
SEABASE CONNECTOR	04	13	MAR-13	OCT-14	AUG-16	SEP-16	OCT-16	NOV-16	SEP-17	0	0	0	0	0	0
									SEABASE Total	**0**	**0**	**0**	**0**	**0**	**0**
TAGS	66	07	JUN-08	DEC-08	OCT-11	DEC-11	TBD	TBD	NOV-12	0	0	0	0	2123	2123
									TAGS Total	**0**	**0**	**0**	**0**	**2123**	**2123**
AGOR	1101	11	FEB-11	NOV-11	FEB-14	MAY-14	TBD	TBD	APR-15	0	0	0	0	0	0
AGOR	1201	12	FEB-12	AUG-12	AUG-14	NOV-14	TBD	TBD	OCT-15	0	0	0	0	0	0
									AGOR Total	**0**	**0**	**0**	**0**	**0**	**0**
YC	1674	04	NOV-06	FEB-07	JAN-08	MAR-08	N/A	N/A	JAN-09	0	0	0	0	0	0
YC	1675	04	NOV-06	FEB-07	JAN-08	MAR-08	N/A	N/A	JAN-09	0	0	0	0	0	0
YC	1672	05	MAR-05	JUL-05	OCT-06	DEC-06	N/A	N/A	NOV-07	0	0	0	0	0	0

CLASSIFICATION:	UNCLASSIFIED														
BUDGET ITEM JUSTIFICATION SHEET(P-30) FY 2009 President's Budget														DATE February 2008	
APPROPRIATION/BUDGET ACTIVITY SHIPBUILDING AND CONVERSION, NAVY/BA 5									P-1 LINE ITEM NOMENCLATURE OUTFITTING BLI: 5110/SUBHEAD NO. 8560						
Ship Type	HULL NO	PROG YEAR	Contract Award	Start of Constr.	DEL DATE	CFO DATE	PSA START	PSA FINISH	OWLD	PRIOR YEARS	FY 2007	FY 2008	FY 2009	TO COMP	TOTAL
YC	1673	05	MAR-05	JUL-05	OCT-06	DEC-06	N/A	N/A	NOV-07	0	0	0	0	0	0
									YC Total	**0**	**0**	**0**	**0**	**0**	**0**
YON	0326	05	MAY-05	OCT-05	DEC-06	FEB-07	N/A	N/A	JAN-08	0	43	0	0	0	43
YON	0327	06	JUL-06	AUG-06	JAN-08	MAR-08	N/A	N/A	FEB-09	0	0	49	0	0	49
YON	0328	07	DEC-06	FEB-07	DEC-08	FEB-09	N/A	N/A	JAN-10	0	0	0	8	0	8
YON	0329	08	AUG-08	JAN-09	JAN-10	MAR-10	N/A	N/A	FEB-11	0	0	0	0	0	0
YON	0330	08	AUG-08	MAY-09	MAY-10	JUL-10	N/A	N/A	JUN-11	0	0	0	0	0	0
YON	0901	09	JAN-09	JAN-10	JAN-11	MAR-11	N/A	N/A	FEB-12	0	0	0	0	6	6
YON	1001	10	JAN-10	JAN-11	JAN-12	MAR-12	N/A	N/A	FEB-13	0	0	0	0	0	0
YON	1101	11	JAN-11	JAN-12	JAN-13	MAR-13	N/A	N/A	FEB-14	0	0	0	0	0	0
YON	1201	12	JAN-12	JAN-13	JAN-14	MAR-14	N/A	N/A	FEB-15	0	0	0	0	0	0
YON	1301	13	JAN-13	JAN-14	JAN-15	MAR-15	N/A	N/A	FEB-16	0	0	0	0	0	0
									YON Total	**0**	**43**	**49**	**8**	**6**	**106**
YP	0703	06	MAY-07	MAY-07	APR-09	JUN-09	N/A	N/A	MAY-10	0	0	0	0	0	0
YP	0704	06	MAY-07	JUL-07	OCT-09	DEC-09	N/A	N/A	NOV-10	0	0	0	0	0	0
YP	0705	07	DEC-07	FEB-09	FEB-10	APR-10	N/A	N/A	MAR-11	0	0	0	0	0	0
YP	0706	08	JUN-08	JUN-09	JUN-10	AUG-10	N/A	N/A	JUL-11	0	0	0	6	0	6
YP	0901	09	JAN-09	OCT-09	OCT-10	DEC-10	N/A	N/A	NOV-11	0	0	0	6	0	6
YP	0902	09	JAN-09	JAN-10	JAN-11	MAR-11	N/A	N/A	FEB-12	0	0	0	5	0	5
YP	1001	10	JAN-10	JAN-11	JAN-12	MAR-12	N/A	N/A	FEB-13	0	0	0	0	1	1
YP	1002	10	JAN-10	JAN-11	JAN-12	MAR-12	N/A	N/A	FEB-13	0	0	0	0	0	0
YP	1101	11	JAN-11	JAN-12	JAN-13	MAR-13	N/A	N/A	FEB-14	0	0	0	0	0	0
YP	1102	11	JAN-11	MAR-11	AUG-12	OCT-12	N/A	N/A	SEP-13	0	0	0	0	0	0
YP	1201	12	JAN-12	SEP-12	SEP-13	NOV-13	N/A	N/A	OCT-14	0	0	0	0	0	0
YP	1202	12	JAN-12	SEP-12	SEP-13	NOV-13	N/A	N/A	OCT-14	0	0	0	0	0	0
YP	1301	13	JAN-13	AUG-13	AUG-14	OCT-14	N/A	N/A	SEP-15	0	0	0	0	0	0
YP	1302	13	JAN-13	AUG-13	AUG-14	OCT-14	N/A	N/A	SEP-15	0	0	0	0	0	0
									YP Total	**0**	**0**	**0**	**17**	**1**	**18**
YTB	0039	06	MAY-06	MAY-06	DEC-06	FEB-07	N/A	N/A	JAN-08	0	0	0	0	0	0
YTB	0040	06	MAY-06	MAY-06	DEC-06	FEB-07	N/A	N/A	JAN-08	0	0	0	0	0	0
YTB	0841	07	AUG-07	SEP-07	SEP-08	NOV-08	N/A	N/A	OCT-09	0	0	0	8	0	8

CLASSIFICATION:	UNCLASSIFIED														
BUDGET ITEM JUSTIFICATION SHEET(P-30) FY 2009 President's Budget													DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY SHIPBUILDING AND CONVERSION, NAVY/BA 5									P-1 LINE ITEM NOMENCLATURE OUTFITTING BLI: 5110/SUBHEAD NO. 8560						
Ship Type	HULL NO	PROG YEAR	Contract Award	Start of Constr.	DEL DATE	CFO DATE	PSA START	PSA FINISH	OWLD	PRIOR YEARS	FY 2007	FY 2008	FY 2009	TO COMP	TOTAL
YTB	0842	07	AUG-07	NOV-07	NOV-08	JAN-09	N/A	N/A	DEC-09	0	0	0	8	0	8
YTB	0843	07	AUG-07	JAN-08	JAN-09	MAR-09	N/A	N/A	FEB-10	0	0	0	8	0	8
YTB	0801	08	JAN-08	MAR-08	MAR-09	MAY-09	N/A	N/A	APR-10	0	0	0	0	0	0
YTB	0901	09	JAN-09	MAR-09	MAR-10	MAY-10	N/A	N/A	APR-11	0	0	0	0	0	0
YTB Total										**0**	**0**	**0**	**24**	**0**	**24**
Full Funding TOA-Outfitting Total										**393348**	**138397**	**137792**	**141336**	**1474835**	**2285708**
Full Funding TOA-Post Delivery Total										**376645**	**227217**	**234737**	**283452**	**2517837**	**3639888**
Full Funding TOA-First Destination Total										**10811**	**3464**	**4324**	**4799**	**28934**	**52332**
Total Obligational Authority Total										**780804**	**369078**	**376853**	**429587**	**3968244**	**5924566**
LESS HURRICANE KATRINA Total										**36000**	**0**	**0**	**0**	**0**	**36000**
NET P-1 Total										**744804**	**369078**	**376853**	**429587**	**4021606**	**5888566**

CLASSIFICATION: UNCLASSIFIED

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

DATE:
February 2008

APPROPRIATION/BUDGET ACTIVITY
SHIPBUILDING AND CONVERSION, NAVY/BA 5 Auxiliaries, Craft and Prior Year Program Costs

P-1 LINE ITEM NOMENCLATURE
SERVICE CRAFT
BLI: 5113 / SUBHEAD NO. 1552

(Dollars in Millions)	PRIOR YR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TO COMP	TOTAL PROG
QUANTITY	17	6	4	4	3	2	3	3	0	42
End Cost	81.5	47.4	32.7	36.3	22.8	19.0	23.7	24.0	0.0	287.4
Full Funding TOA	81.5	47.4	32.7	36.3	22.8	19.0	23.7	24.0	0.0	287.4
Total Obligational Authority	81.5	47.4	32.7	36.3	22.8	19.0	23.7	24.0	0.0	287.4
Plus Outfitting/Plus Post Delivery	0	0.1	0.6	1.1	0.7	0.7	0.4	1.4	0.3	5.3
Total	81.5	47.5	33.3	37.4	23.5	19.7	24.1	25.4	0.3	292.7
Unit Cost (Ave. End Cost)	5.1	7.9	8.2	9.1	7.6	9.5	7.9	8.0	0.0	7.0

MISSION:

NEW CONSTRUCTION SERVICE CRAFT TO ACQUIRE OIL BARGES (YONs), COVERED LIGHTERS (YFNs), LARGE HARBOR TUGS (YTs), AND YARD PATROL CRAFT (YPs). SEE P-5 EXHIBIT FOR DETAILED BREAKOUT.

Characteristics	Production Status		Various -Multiple Contracts
Hull Various - Multiple Craft	Contract Plans		
Length overall	Award Planned (Month)		
Beam	Months To Complete	Commissioning Date	
Displacement	a) Award to Delivery	Completion of	
Draft	b) Construction Start Delivery	Fitting-Out	

Armament: N/A

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

BUDGET ACTIVITY: 5	**P-1 LINE ITEM NOMENCLATURE**	**SUBHEAD NO. 1552 BLI: 5113**
Auxiliaries, Craft and Prior Year Program Costs	**SERVICE CRAFT**	

	FY 2004		**FY 2005**		**FY 2006**		**FY 2007**		**FY 2008**	
ELEMENT OF COST	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**
PLAN COSTS	6		5		6		6		4	
BASIC CONST/CONVERSION		11,684		13,585		42,832		45,000		30,084
CHANGE ORDERS		13		46		1,309		1,309		1,721
HM&E				597		228		50		50
OTHER COST		30		1,494		467		1,086		817
TOTAL SHIP ESTIMATE		11,727		15,722		44,836		47,445		32,672
NET P-1 LINE ITEM:		11,727		15,722		44,836		47,445		32,672
	FY 2004		FY 2005	4,800	FY 2006		FY2007		FY2008	
	1-TWR	4,500	1-ARC	3,365	2-YTB	11,105	1-TWR	2,391	2-YON	8,000
	1-YON	2,743	1-YON	5,000	1-ARC	4,200	3-YT	29,414	1-YT	12,250
	1-YFN	1,052	1-FPC	1,549	0-YC	844	1-YON	4,200	1-YP	12,422
	3-YC	3,432	2-YC	1,008	1-YON	3,931	1-YP	11,440	4	32,672
	6	11,727	0-YP	15,722	2-YP	24,756	6	47,445		
			5		6	44,836				

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

BUDGET ACTIVITY: 5	**P-1 LINE ITEM NOMENCLATURE**	**SUBHEAD NO. 1552 BLI: 5113**
Auxiliaries, Craft and Prior Year Program Costs	**SERVICE CRAFT**	

	FY 2009	
ELEMENT OF COST	**QTY**	**COST**
PLAN COSTS	4	
BASIC CONST/CONVERSION		33,607
CHANGE ORDERS		1,640
HM&E		50
OTHER COST		1,020
TOTAL SHIP ESTIMATE		36,317
NET P-1 LINE ITEM:		36,317
	FY2009	
	1-YON	6,853
	1-YT	11,778
	2-YP	17,686
	4	36,317

SHIPBUILDING AND CONVERSION, NAVY
SHIP PRODUCTION SCHEDULE

EXHIBIT P-27
FY 2009 President's Budget
DATE:
February 2008

SHIP TYPE	HULL NUMBER	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
YC	1672	BASIC MARINE	2005	MAR-05	JUL-05	OCT-06
YC	1673	BASIC MARINE	2005	MAR-05	JUL-05	OCT-06
YON	0326	SUNDIAL MARINE	2005	MAY-05	OCT-05	DEC-06
YON	0327	SUNDIAL MARINE	2006	JUL-06	AUG-06	JAN-08
YON	0328	SUNDIAL MARINE	2007	DEC-06	FEB-07	DEC-08
YON	0329	SUNDIAL MARINE	2008	AUG-08	JAN-09	JAN-10
YON	0330	SUNDIAL MARINE	2008	AUG-08	MAY-09	MAY-10
YON	0901	TBD	2009	JAN-09	JAN-10	JAN-11
YON	1001	TBD	2010	JAN-10	JAN-11	JAN-12
YON	1101	TBD	2011	JAN-11	JAN-12	JAN-13
YON	1201	TBD	2012	JAN-12	JAN-13	JAN-14
YON	1301	TBD	2013	JAN-13	JAN-14	JAN-15
YP	0703	C&G BOAT WORKS	2006	MAY-07	MAY-07	APR-09
YP	0704	C&G BOAT WORKS	2006	MAY-07	JUL-07	OCT-09
YP	0705	C&G BOAT WORKS	2007	DEC-07	FEB-09	FEB-10
YP	0706	C&G BOAT WORKS	2008	JUN-08	JUN-09	JUN-10
YP	0901	TBD	2009	JAN-09	OCT-09	OCT-10
YP	0902	TBD	2009	JAN-09	JAN-10	JAN-11
YP	1001	TBD	2010	JAN-10	JAN-11	JAN-12
YP	1002	TBD	2010	JAN-10	JAN-11	JAN-12
YP	1101	TBD	2011	JAN-11	JAN-12	JAN-13
YP	1201	TBD	2012	JAN-12	SEP-12	SEP-13
YP	1202	TBD	2012	JAN-12	SEP-12	SEP-13
YP	1301	TBD	2013	JAN-13	AUG-13	AUG-14
YP	1302	TBD	2013	JAN-13	AUG-13	AUG-14
YTB	0039	PACIFIC TUG BOAT SVCS	2006	MAY-06	MAY-06	DEC-06
YTB	0040	PACIFIC TUG BOAT SVCS	2006	MAY-06	MAY-06	DEC-06
YT	0841	C&G BOAT WORKS	2007	AUG-07	SEP-07	JAN-10
YT	0842	C&G BOAT WORKS	2007	AUG-07	NOV-07	MAY-10

YT	0843	C&G BOAT WORKS	2007	AUG-07	JAN-08	AUG-10
YT	0844	C&G BOAT WORKS	2008	JAN-08	MAR-08	DEC-11
YT	0901	TBD	2009	JAN-09	MAR-09	DEC-12
YC	1674	BASIC MARINE	2004	NOV-06	FEB-07	JAN-08
YC	1675	BASIC MARINE	2004	NOV-06	FEB-07	JAN-08
TWR	TBD	TBD	2007	TBD	TBD	TBD

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

DATE: February 2008

APPROPRIATION/BUDGET ACTIVITY
SHIPBUILDING AND CONVERSION, NAVY/BA 5 Auxiliaries, Craft and Prior Year Program Costs

P-1 LINE ITEM NOMENCLATURE
LCAC SLEP
BLI: 5139 / SUBHEAD NO. 1576

(Dollars in Millions)	PRIOR YR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TO COMP	TOTAL PROG
QUANTITY	22	6	5	6	6	6	6	6	9	72
End Cost	494.1	110.2	97.8	110.9	113.4	116.8	119.2	121.7	246.0	1,530.1
Less Advance Procurement	27.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.9
Less Transfer	1.5	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	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	11.9
Less Katrina Supplemental	18.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.5
Full Funding TOA	432.2	110.2	97.8	110.9	113.4	116.8	119.2	121.7	246.0	1,468.2
Plus Advance Procurement	27.9	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	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	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	11.9
Plus Katrina Supplement	18.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.5
Total Obligational Authority	494.1	110.2	97.8	110.9	113.4	116.8	119.2	121.7	246.0	1,530.1
Plus Outfitting / Plus Post Delivery	5.2	1.6	4.2	2.1	2.7	3.4	5.5	4.2	7.9	28.7
Total	499.5	112.6	100.3	113.2	115.7	119.0	122.6	124.5	251.5	1,558.9
Unit Cost (Ave. End Cost)	22.5	18.4	19.6	18.5	18.9	19.5	19.9	20.3	27.3	21.3

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 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. SLEP configuration Full Mission Trainer Upgrades are also included in each Fiscal Year through FY08 as part of the SLEP Program.

Hull	
Length Overall	88ft
Beam	47ft
Displacement	150 tons
Draft	None (rides on cushion of air)
Armament	None

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

BUDGET ACTIVITY: 5	**P-1 LINE ITEM NOMENCLATURE**	**SUBHEAD NO. 1576 BLI: 5139**
Auxiliaries, Craft and Prior Year Program Costs	**LCAC SLEP**	

	FY 2004		**FY 2005**		**FY 2006**		**FY 2007**		**FY 2008**	
ELEMENT OF COST	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**
PLAN COSTS	4		5		5		6		5	
BASIC CONST/CONVERSION		37,322		34,338		43,833		53,387		47,023
ELECTRONICS		6,878		7,348		10,264		11,780		9,138
HM&E		37,554		43,485		40,073		40,501		37,020
OTHER COST		4,861		4,873		4,468		4,557		4,649
NET P-1 LINE ITEM:		86,615		90,044		98,638		110,225		97,830

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

BUDGET ACTIVITY: 5	**P-1 LINE ITEM NOMENCLATURE**	**SUBHEAD NO. 1576 BLI: 5139**
Auxiliaries, Craft and Prior Year Program Costs	**LCAC SLEP**	

	FY 2009	
ELEMENT OF COST	**QTY**	**COST**
PLAN COSTS	6	
BASIC CONST/CONVERSION		55,368
ELECTRONICS		8,737
HM&E		42,071
OTHER COST		4,742
NET P-1 LINE ITEM:		110,918

SHIPBUILDING AND CONVERSION, NAVY
SHIP PRODUCTION SCHEDULE

EXHIBIT P-27
FY 2009 President's Budget
DATE:
February 2008

SHIP TYPE	HULL NUMBER	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
LCAC SLEP	MULTIPLE	TM&LS	2004	MAR-04	OCT-04	DEC-07
LCAC SLEP	MULTIPLE	TITAN	2005	JAN-05	MAY-05	JAN-08
LCAC SLEP	MULTIPLE	L3 TITAN	2006	AUG-06	FEB-07	SEP-08
LCAC SLEP	MULTIPLE	L3 TITAN	2007	MAR-07	FEB-08	SEP-09
LCAC SLEP	MULTIPLE	TBD	2008	DEC-07	FEB-09	JUN-10
LCAC SLEP	MULTIPLE	TBD	2009	DEC-08	FEB-10	JUN-11
LCAC SLEP	MULTIPLE	TBD	2010	DEC-09	FEB-11	SEP-12
LCAC SLEP	MULTIPLE	TBD	2011	DEC-10	FEB-12	JUN-13
LCAC SLEP	MULTIPLE	TBD	2012	DEC-11	FEB-13	JUN-14
LCAC SLEP	MULTIPLE	TBD	2013	DEC-12	FEB-14	JUN-15

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type:	FY 2007		FY 2008		FY 2009	
	QTY	COST	QTY	COST	QTY	COST
PROPULSION EQUIPMENT						
a. P-35 Items						
Subtotal		0		0		0
b. Major Items						
Subtotal		0		0		0
c. Other PROPULSION EQUIPMENT						
Subtotal		0		0		0
Total PROPULSION EQUIPMENT		0		0		0

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type:	FY 2007		FY 2008		FY 2009	
	QTY	COST	QTY	COST	QTY	COST
HM&E						
a. P-35 Items						
Subtotal		0		0		0
b. Major Items						
Subtotal		0		0		0
c. Other HM&E						
Subtotal		0		0		0
Total HM&E		0		0		0

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type:	FY 2007		FY 2008		FY 2009	
	QTY	COST	QTY	COST	QTY	COST
ELECTRONICS						
a. P-35 Items						
Subtotal		0		0		0
b. Major Items						
Subtotal		0		0		0
c. Other ELECTRONICS						
Subtotal		0		0		0
Total ELECTRONICS		0		0		0

SHIPBUILDING AND CONVERSION, NAVY

Analysis of Ship Cost Estimates - Major Equipment

(Dollars in Thousands)

Ship Type:	FY 2007		FY 2008		FY 2009	
	QTY	COST	QTY	COST	QTY	COST
ORDNANCE						
a. P-35 Items						
Subtotal		0		0		0
b. Major Items						
Subtotal		0		0		0
c. Other ORDNANCE						
Subtotal		0		0		0
Total ORDNANCE		0		0		0

BUDGET ITEM JUSTIFICATION SHEET (P-40)
FY 2009 PRESIDENT's BUDGET — February 2008

Shipbuilding and Conversion, Navy — Auxiliaries, Craft and Prior Year Program Costs — BLI 530000 Completion of PY Shipbuilding Programs

	Prior Year	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Program
Cost To Complete										
Virginia Class	0.0	0.0	0.0	81.0	78.5	0.0	0.0	0.0	0.0	159.5
CVN	0.0	0.0	0.0	20.5	0.0	0.0	0.0	0.0	0.0	20.5
LPD 17 Class	0.0	0.0	0.0	33.1	34.4	18.6	0.0	0.0	0.0	86.1
SSBN ERO	0.0	0.0	0.0	16.2	0.0	0.0	0.0	0.0	0.0	16.2
LHA(R)	0.0	0.0	0.0	14.3	70.0	0.0	0.0	0.0	0.0	84.3
Hurricane Supplemental Funding:										
DDG 51 Class	302.6									302.6
LPD 17 Class	1,251.4									1,251.4
LCAC SLEP	19.8									19.8
Infrastructure Contracts	131.6									131.6
Other Hurricane Supplemental	266.8									266.8
Total	1,972.2	0.0	0.0	165.2	182.9	18.6	0.0	0.0	0.0	2,338.8

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.

COST TO COMPLETE

Virginia Class Submarine:

Funds are required for completion of prior year ships of the VA Class Program (SSNs 777, 779, and 780). Funds are required for completion of Virginia Class construction contracts due to increased labor and material costs and higher than expected costs for Special Hull Treatment (SHT).

LPD 17:

This requirement is due to a number of factors that have occurred since the ship was appropriated. Factors include: changing/shrinking industrial base, ship quantities, higher overhead rates, worker attrition rates, and labor inefficiency. Funds in FY 2009 through 2011 are for cost impacts resulting from the Pension Protection Act of 2006 for LPDs 21 through 24 as well as rate increases for LPD 21.

CVN:

Funds in FY 2009 are for the correction of government responsible deficiencies for CVN 77.

LHA(R)

Funds in FY 2009 are for basic construction cost adjustments. Funds in FY 2010 are for cost impacts resulting from the Pension Protection Act of 2006.

SSBN ERO:

Funds in FY 2009 are required for SSBN 733 Engineered Refueling Overhaul (ERO) mandatory repairs and increased costs for the ERO.

HURRICANE SUPPLEMENTAL FUNDING:

Funds are required due to damages and related cost increases for ships under contract caused by Hurricanes Katrina and Rita.

Infrastructure contracts:

Funds are for infrastructure contracts at Northrop Grumman Ship Systems (NGSS) for a new panel line at NGSS Ingalls and a new composites facility at NGSS Gulfport; Swiftships for floodproofing; Atlantic Marine for drydock improvements; Textron for utility upgrade improvement; Austal for a modular manufacturing facility; and Seemann Composites, Inc. for composite manufacturing facility infrastructure repairs and upgrades.

P-5 Exhibit
FY2009 PRESIDENT'S BUDGET
February, 2008

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	FY 2010 TOT COST	FY 2011 TOT COST
VIRGINIA CLASS SUBMARINE		0	0	81,000	78,512	0
		0	0	81,000	78,512	0
CVN		0	0	20,516	0	0
		0	0	20,516	0	0
LPD 17		0	0	33,082	34,350	18,565
		0	0	33,082	34,350	18,565
SSBN ERO		0	0	16,244	0	0
		0	0	16,244	0	0
LHA(R)		0	0	14,310	70,000	0
		0	0	14,310	70,000	0
HURRICANE SUPPLEMENTAL:						
DDG For: FY 2000 (DDG 98)	5,400					
FY 2001 (DDG 100)	112,600					
FY 2002 (DDG 103)	48,200					
FY 2003 (DDG 105)	61,900					
FY 2004 (DDG 107)	32,200					
FY 2005 (DDG 110)	42,300					
LPD-17: For: FY 1999 (LPD 18)	147,700					
FY 2000 (LPD 19-20)	442,930					
FY 2003 (LPD 21)	263,260					
FY 2004 (LPD 22)	190,760					
FY 2005 (LPD 23)	206,810					
LCAC SLEP:						
For: FY 2003 (LCAC SLEP 8-10 & 21)	4,523					
FY 2004 (LCAC SLEP 26, 28, 39, 40)	15,277					
Infrastructure Contracts:						
NG Ingalls Operations Panel Line	25,837					
NG Gulfport Composite Facility	60,417					
Swiftships Floodproofing	2,000					
Atlantic Marine Drydock	2,997					
Textron Utilities Improvement	3,414					
Austal Modular Manufacturing Facility	33,710					
SCI Improved Facility	3,243					
OTHER HURRICANE SUPPLEMENTAL	266,773					
TOTAL	1,972,251	0	0	165,152	182,862	18,565