

DEPARTMENT OF THE NAVY  
FISCAL YEAR (FY) 2001  
BUDGET ESTIMATES



JUSTIFICATION OF ESTIMATES  
FEBRUARY 2000

SHIPBUILDING AND CONVERSION, NAVY

UNCLASSIFIED  
 DEPARTMENT OF THE NAVY  
 FY 2001 PROCUREMENT PROGRAM

February 2000

SUMMARY  
 (\$ IN MILLIONS)

APPROPRIATION: SHIPBUILDING & CONVERSION, NAVY  
 -----

ACTIVITY -----	FY 1999 -----	FY 2000 -----	FY 2001 -----
02. OTHER WARSHIPS	4,976.7	4,515.6	9,868.3
03. AMPHIBIOUS SHIPS	677.1	1,860.6	1,510.0
05. AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRAM COSTS	283.1	641.2	918.6
TOTAL SHIPBUILDING & CONVERSION, NAVY	5,937.0	7,017.4	12,296.9

DEPARTMENT OF THE NAVY  
FY 2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 1611N SHIPBUILDING &amp; CONVERSION, NAVY

DATE: February 2000

## MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 1999		FY 2000		FY 2001		S E C
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
BUDGET ACTIVITY 02: OTHER WARSHIPS									
-----									
OTHER WARSHIPS									
1	CARRIER REPLACEMENT PROGRAM	A					1	(4,974.9)	U
	LESS: ADVANCE PROCUREMENT (PY)							(-921.2)	U
								-----	
								4,053.7	
2	CARRIER REPLACEMENT PROGRAM								
	ADVANCE PROCUREMENT (CY)			122.9		749.6		21.9	U
	(FY 1999 FOR FY 2001) (MEMO)			(122.9)					
	(FY 2000 FOR FY 2001) (MEMO)					(749.6)			
	(FY 2001 FOR FY 2006) (MEMO)							(21.9)	
3	NEW SSN	B	1	(2,141.4)			1	(2,019.5)	U
	LESS: ADVANCE PROCUREMENT (PY)			(-694.2)				(-816.5)	U
				-----		-----		-----	
				1,447.2				1,203.0	
4	NEW SSN								
	ADVANCE PROCUREMENT (CY)			503.2		746.6		508.2	U
	(FY 1999 FOR FY 2001) (MEMO)			(503.2)					
	(FY 2000 FOR FY 2001) (MEMO)					(145.3)			
	(FY 2000 FOR FY 2002) (MEMO)					(601.3)			
	(FY 2001 FOR FY 2002) (MEMO)							(79.2)	
	(FY 2001 FOR FY 2003) (MEMO)							(429.0)	
5	CVN REFUELING OVERHAULS	A						(705.2)	U
	LESS: ADVANCE PROCUREMENT (PY)							(-1.8)	U
				-----		-----		-----	
								703.4	
6	CVN REFUELING OVERHAULS								
	ADVANCE PROCUREMENT (CY)			260.9		344.7		25.0	U
	(FY 1999 FOR FY 2002) (MEMO)			(260.9)					
	(FY 2000 FOR FY 2001) (MEMO)					(1.8)			
	(FY 2000 FOR FY 2002) (MEMO)					(342.9)			
	(FY 2001 FOR FY 2006) (MEMO)							(25.0)	

DEPARTMENT OF THE NAVY  
FY 2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 1611N SHIPBUILDING &amp; CONVERSION, NAVY

DATE: February 2000

## MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 1999		FY 2000		FY 2001		S E C
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
7	SUBMARINE REFUELING OVERHAULS	A					1	210.4	U
8	SUBMARINE REFUELING OVERHAULS ADVANCE PROCUREMENT (CY) (FY 2001 FOR FY 2002) (MEMO) (FY 2001 FOR FY 2003) (MEMO)							72.3 (48.4) (23.9)	U
9	DDG-51 (MYP) LESS: ADVANCE PROCUREMENT (PY)	A	3	(2,756.1)	3	(2,727.4)	3	(2,795.6)	U
				(-120.9)		(-52.7)		(-82.0)	U
				-----		-----		-----	
				2,635.1		2,674.7		2,713.6	
10	DDG-51 (MYP) ADVANCE PROCUREMENT (CY) (FY 1999 FOR FY 2002) (MEMO) (FY 1999 FOR FY 2003) (MEMO) (FY 2001 FOR FY 2002) (MEMO) (FY 2001 FOR FY 2003) (MEMO) (FY 2001 FOR FY 2004) (MEMO) (FY 2001 FOR FY 2005) (MEMO)			7.4 (1.8) (5.5)				356.8   (102.0) (102.0) (102.0) (51.0)	U
				-----		-----		-----	
	TOTAL OTHER WARSHIPS			4,976.7		4,515.6		9,868.3	
BUDGET ACTIVITY 03: AMPHIBIOUS SHIPS									
-----									
AMPHIBIOUS SHIPS									
11	LHD-1 AMPHIBIOUS ASSAULT SHIP ADVANCE PROCUREMENT (CY) (FY 1999 FOR FY 2005) (MEMO) (FY 2000 FOR FY 2005) (MEMO)			44.2 (44.2)		356.2 (356.2)			U
12	LPD-17 LESS: ADVANCE PROCUREMENT (PY)	A	1	(729.0)	2	(1,504.4)	2	(1,489.3)	U
				(-96.1)					U
				-----		-----		-----	
				632.9		1,504.4		1,489.3	
13	LPD-17 ADVANCE PROCUREMENT (CY) (FY 2001 FOR FY 2002) (MEMO) (FY 2001 FOR FY 2003) (MEMO) (FY 2001 FOR FY 2004) (MEMO)							20.7 (2.3) (9.2) (9.2)	U
				-----		-----		-----	
	TOTAL AMPHIBIOUS SHIPS			677.1		1,860.6		1,510.0	

UNCLASSIFIED

DEPARTMENT OF THE NAVY  
 FY 2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 1611N SHIPBUILDING & CONVERSION, NAVY

DATE: February 2000

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 1999 QUANTITY	FY 1999 COST	FY 2000 QUANTITY	FY 2000 COST	FY 2001 QUANTITY	FY 2001 COST	SECT C
BUDGET ACTIVITY 05: AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRAM COSTS									
-----									
AUXILIARIES, CRAFT AND PRIOR YR PROGRAM COST									
14	OCEANOGRAPHIC SHIPS	A	1	(75.3)					U
	LESS: ADVANCE PROCUREMENT (PY)			(-15.6)					U
				-----		-----		-----	
				59.7					
15	ADC(X)	A			1	438.8	1	339.0	U
16	LCAC LANDING CRAFT	A		(15.8)		(12.4)			U
	LESS: ADVANCE PROCUREMENT (PY)					(-12.4)			U
				-----		-----		-----	
				15.8					
17	OUTFITTING	A		84.1		170.7		301.1	U
18	POST DELIVERY	A		121.7					U
19	LCAC SLEP	A			2	31.7	1	15.6	U
20	COMPLETION OF PY SHIPBUILDING PROGRAMS	A						263.0	U
21	FIRST DESTINATION TRANSPORTATION	A		1.9					U
				-----		-----		-----	
TOTAL AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRA				283.1		641.2		918.6	
TOTAL SHIPBUILDING & CONVERSION, NAVY				5,937.0		7,017.4		12,296.9	

Shipbuilding & Conversion, Navy  
Program and Financing (in Thousands of dollars)

Identification code	17-1611-0-1-051	Budget Plan (amounts for PROCUREMENT actions programed)			Obligations		
		1999 actual	2000 est.	2001 est.	1999 actual	2000 est.	2001 est.
-----							
Program by activities:							
Direct program:							
00.0101	Fleet ballistic missile ships				2,813	11,751	
00.0201	Other warships	5,152,231	4,515,569	9,868,290	5,243,758	5,070,553	8,841,494
00.0301	Amphibious ships	677,128	1,860,628	1,509,986	534,539	1,425,390	1,418,174
00.0401	Mine warfare and patrol ships	5,729			34,769	3,534	1,000
00.0501	Auxiliaries, craft, and prior-year program	283,086#	770,614*	918,643	329,845	565,054	698,813
00.9101	Total direct program	6,118,174#	7,146,811*	12,296,919	6,145,724	7,076,282	10,959,481
01.0101	Reimbursable program				16,510		
10.0001	Total	6,118,174#	7,146,811*	12,296,919	6,162,234	7,076,282	10,959,481
-----							
Financing:							
17.0001	Recovery of prior year obligations				-173,810		
Unobligated balance available, start of year:							
21.4002	For completion of prior year budget plans				-6,510,031	-6,228,668	-6,299,197
21.4003	Available to finance new budget plans		-210,212			-210,212	
21.4009	Reprogramming from/to prior year budget plan	-411,116					
Unobligated balance available, end of year:							
24.4002	For completion of prior year budget plans				6,228,668	6,299,197	7,636,635
24.4003	Available to finance subsequent year budget	210,212			210,212		
39.0001	Budget authority	5,917,270#	6,936,599*	12,296,919	5,917,270	6,936,599	12,296,919
-----							
Budget authority:							
40.0001	Appropriation	6,017,752	7,053,454	12,296,919	6,017,752	7,053,454	12,296,919
40.3601	Unobligated Balance Rescinded	-100,482	-80,800		-100,482	-80,800	
40.7601	Reduction pursuant to P.L. 106-113(-), Titl		-36,055			-36,055	
41.0001	Transferred to other accounts (-)	-181,222	-129,412		-181,222	-129,412	
42.0001	Transferred from other accounts	181,222	129,412		181,222	129,412	
43.0001	Appropriation (adjusted)	5,917,270#	6,936,599*	12,296,919	5,917,270	6,936,599	12,296,919
-----							
Relation of obligations to outlays:							
71.0001	Obligations incurred				6,162,234	7,076,282	10,959,481
72.1001	From Federal sources: Receivables and unpaid, unfilled orders, SOY				-646,803	-431,843	-431,843
72.4001	Obligated balance, start of year				15,767,565	14,618,074	15,871,206
74.1001	From Federal sources: Receivables and unpaid, unfilled orders, EOY				431,843	431,843	431,843
74.4001	Obligated balance, end of year				-14,618,074	-15,871,206	-20,431,999
77.0001	Adjustments in expired accounts (net)				-225,439		
78.0001	Adjustments in unexpired accounts				-173,810		
90.0001	Outlays (net)				6,697,516	5,823,150	6,398,688
-----							

Shipbuilding & Conversion, Navy  
Object Classification (in Thousands of dollars)

Identification code	17-1611-0-1-051	1999 actual	2000 est.	2001 est.
-----				
Direct obligations:				
125.101	Advisory and assistance services	55,067	56,904	54,016
125.201	Other services	791,500	732,952	749,481
	Purchases goods/services from Government accounts			
125.301	Purchase of goods/services from Government accounts	56,156	47,517	36,632
125.303	Purchases from revolving funds	465,817	463,195	452,129
126.001	Supplies and materials	5,226	24,642	33,942
131.001	Equipment	4,771,958	5,751,072	9,633,281
		-----	-----	-----
199.001	Total Direct obligations	6,145,724	7,076,282	10,959,481
Reimbursable obligations:				
231.001	Equipment	16,510		
		-----	-----	-----
299.001	Total Reimbursable obligations	16,510		
999.901	Total obligations	6,162,234	7,076,282	10,959,481
-----				

Notes: (#) Amount reflected should be \$181.222M lower than shown due to FY 1998 Ship Cost Adjustment financing being reflected in the 'financing' portion of the BRS report vice the accounting/budgeting section.

(\*) Amount reflected should be \$129.412M lower than shown due to FY 1999 Ship Cost Adjustment financing being reflected in the 'financing' portion of the BRS report vice the accounting/budgeting section.

Comparison of FY 2000 Program Requirements as reflected  
in the FY 2000 Budget with FY 2000 Program Requirements  
as shown in the FY 2001 Budget

Summary of Requirements (\$ in Thousands)

	<b>Total Program Requirements per FY 2000 Budget</b>	<b>Total Program Requirements per FY 2001 Budget</b>	<b>Increase (+) or Decrease (-)</b>
Fleet Ballistic Missile	0	0	0
Other Warships	\$4,527,255	\$4,515,569	-\$11,686
Amphibious Ships	\$1,508,338	\$1,860,628	+\$352,290
Mine Warfare and Patrol Ships	0	0	0
Auxiliaries, Craft and PY Program Costs	\$642,861	\$641,202	-\$1,659
<b>Total Fiscal Year Program</b>	<b>\$6,678,454</b>	<b>\$7,017,399</b>	<b>+\$338,945</b>

Explanation by Budget Activity  
(\$ in Thousands)

OTHER WARSHIPS (\$-11,686) - There was no change in program requirements. The net decrease reflects undistributed Congressional reductions to all BA-2 programs (\$-11,686).

AMPHIBIOUS SHIPS (\$+352,290) - The net increase reflects Congressional action to add Advance Procurement funds for LHD-8 (\$375,000) and undistributed Congressional reductions (\$-22,710).

AUXILIARIES, CRAFT, AND PRIOR YEAR PROGRAM COSTS (\$-1,659) - The net decrease reflects undistributed Congressional reductions to all BA-5 programs (\$-1,659).

Comparison of FY 2000 Financing as reflected  
in FY 2000 Budget with 2000 Financing  
as shown in the FY 2001 Budget

Summary of Requirements (\$ In Thousands)

	<b>Financing per FY 2000 Budget</b>	<b>Financing Per FY 2001 Budget</b>	<b>Increase (+) or Decrease (-)</b>
Financing (Total)	\$6,678,454	\$7,017,399	+\$338,945
Financing (Service Account)	(\$6,678,454)	(\$7,017,399)	(+)\$338,945
Financing (Reimbursable)	\$0	\$0	\$0
<b>Appropriation (Adjusted)</b>	<b>\$6,678,454</b>	<b>\$7,017,399</b>	<b>+\$338,945</b>

Explanation of Changes in Financing  
(\$ In Thousands)

Fiscal Year 2000 financing has changed since the presentation of the FY 2000 budget as noted below:  
There has been a net increase to the appropriation of +\$338,945. The net increase reflects Congressional action to:

- reduce funding to all shipbuilding programs in an undistributed reduction (-\$36,055)
- add Advance Procurement funds for LHD-8 (+\$375,000)

**BUDGET ITEM JUSTIFICATION SHEET (P-40)**

**FY 2000 PRESIDENT'S BUDGET**

DATE:

February 2000

APPROPRIATION/BUDGET ACTIVITY						P-1 ITEM NOMENCLATURE				
BA #2 OTHER WARSHIPS						CARRIER REPLACEMENT PROGRAM 200100				
	PRIOR YEARS	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY2005	TO COMPLETE	TOTAL PROGRAM
QUANTITY	3	0	0	1	0	0	0	0	1	4
<b>Total Ship Funding</b>										
End Cost	11,206.5	0.0	0.0	4,974.9	0.0	0.0	0.0	0.0	TBD	16,181.4
Less Advance Procurement	847.8	0.0	0.0	921.2	0.0	0.0	0.0	0.0	TBD	1,769.0
Less Escalation	70.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TBD	70.8
Less (FY 1999 for FY 1995)	124.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	124.9
Less (FY 2001 for FY 1995)	87.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.0
Full Funding TOA 1/	10,076.0	0.0	0.0	4,053.7	0.0	0.0	0.0	0.0	TBD	14,129.7
Plus Advance Procurement	847.8	122.9	749.6	21.9	146.8	428.2	1,323.3	128.8	TBD	3,769.3
Total Obligational Authority	10,923.8	122.9	749.6	4,075.6	146.8	428.2	1,323.3	128.8	TBD	17,899.0
<b>Total Program Funding by Fiscal Year</b>										
Prior Year Cost to Complete				87.0	*					87.0
Plus Outfitting and Post Delivery	117.0	24.9	2.1	22.9	33.2	47.3	0.5	19.1	110.7	377.7
Plus Escalation	70.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TBD	70.8
Total	11,111.6	147.8	751.7	4,185.5	180.0	475.5	1,323.8	147.9	TBD	18,434.4
Unit Cost (Ave. End Cost)	3,735.5	*	0.0	0.0	4,974.9	0.0	0.0	0.0	TBD	4,045.3

**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.

NOTES:

FY01 advance procurement is for selected CVNX reactor plant component forgings

\* Additional Funding for completion of prior year construction is included in SCN P-1 line item 20.

Armament:

CVN 74/75:  
 Nato Sea Sparrow Missile System  
 Close in Weapons System

Major Electronics:

CVN 74/75: Radio Communication System  
 Ship Self Defense System  
 Advance Combat Direction System

AN/SPN 46 Aircraft Landing Radar  
 Carrier Intelligence Center

CVN 76:  
 Nato Sea Sparrow Missile System  
 Rolling Airframe Missile  
 Tactical Support Center

CVN 76:  
 Radio Communication System  
 Ship Self Defense System  
 Advance Combat Direction System

AN/SPN 46 Aircraft Landing Radar  
 Carrier Intelligence Center  
 CEC (AN/USG-2)

CVN 77:  
 MK29 GMLS With HAS (Formerly RAM)

CVN 77:  
 C4ISR  
 NSWPC (Formerly CVIC)  
 ICDS (Formerly ACDS/SSDS)

AIEWS (AN/SLY-2)  
 CEC (AN/USG-2)  
 ACLS (AN/SPN-46(V)3)

UNCLASSIFIED  
CLASSIFICATION

P-5 EXHIBIT  
FY 2001 President's Budget  
February 2000

APPROPRIATION: SHIPBUILDING AND WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)  
CONVERSION, NAVY

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BUDGET ACTIVITY: 2 OTHER WARSHIPS P-1 ITEM NOMENCLATURE: CARRIER REPLACEMENT PRC SUBHEAD: 8210

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FY 1995		
ELEMENT OF COST	QTY	TOT COST
PLAN COSTS	1	0
BASIC CONST/CONVERSION		2,734,426
CHANGE ORDERS		128,382
ELECTRONICS		197,788
PROPULSION EQUIPMENT		851,885
HM&E		43,881
OTHER COST		57,734
ORDNANCE		137,690
ESCALATION		295,999
TOTAL SHIP ESTIMATE		4,447,785
Less: ADVANCE PROCUREMENT (FY 93 for FY 95)		799,068
Less: TRANSFER (FY 99 for FY 95)		124,937
Less: Cost to Complete (FY 2001 for FY 1995)		87,000
NET P-1 LINE ITEM		3,436,780

CLASSIFICATION

UNCLASSIFIED

P-5

FY 2001 President's Budget

February 2000

APPROPRIATION: SHIPBUILDING AND  
CONVERSION, NAVY

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

SUBHEAD 2231

BUDGET ACTIVITY: 2  
OTHER WARSHIPS

P-1 ITEM NOMENCLATURE: CARRIER REPLACEMENT PROGRAM

ELEMENT OF COST	QTY	FY01 CVN 77 TOT COST
PLAN COSTS	1	0
BASIC CONST/CONVERSION		3,377,184
CHANGE ORDERS		168,986
ELECTRONICS		302,689
PROPULSION EQUIPMENT		695,398
HM&E		28,047
OTHER COST		43,521
ORDNANCE		103,720
ESCALATION (INCLUDING FCOM)		255,343
TOTAL SHIP ESTIMATE		4,974,888
LESS: ADVANCE PROCUREMENT FY98		48,737
LESS: ADVANCE PROCUREMENT FY99		122,897
LESS: ADVANCE PROCUREMENT FY00		749,601
NET P-1 LINE ITEM		4,053,653

**SHIPBUILDING AND CONVERSION, NAVY**  
**Analysis of Ship Cost Estimates - Basic/Escalation**  
**Ship Type: CVN 68 Class**

P-5B  
 FY 2001 President's Budget  
 February 2000

	<u>Start/Issue</u>	<u>Complete/Response</u>
<u>I. Design Schedule</u>		
Issue date for TLR	July 94	3/28/13
Issue date for TLS	N/A	
Preliminary Design	N/A	
Contract Design	Oct 97	Jan 01
Request for Proposals	May 00	Aug 00
Design Agent	Newport News Shipbuilding	

II. Classification of Cost Estimate    **Class C**

<u>III. Basic Construction/Conversion</u>	<u>FY2001</u>
A. Assumed Award Date	Dec 00
B. Contract Type (and Share Line if applicable)	FPIF

IV. Escalation

Escalation Termination Date	Nov 2008 (includes 10 month post delivery period)
Escalation Requirement (with FCOM)	\$255,343
Labor/Material Split	672/1167 (Direct Labor\$ / Cont Furnished Mat'l\$)
Allowable Overhead Rate	146% (Ovrhd\$ / Direct Labor\$)

V. Other Basic (Reserves/Miscellan:    **Amount**

None

UNCLASSIFIED

CLASSIFICATION

SHIPBUILDING AND CONVERSION, NAVY  
SHIP PRODUCTION SCHEDULE

EXHIBIT P-27  
FY 2001 President's Budget  
February 2000

SHIP TYPE	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
CVN 76	NEWPORT NEWS	1995	Dec-94	Jan-95	Dec-02
CVN 77	NEWPORT NEWS	2001	Dec-00	Mar-01	Jan-08

UNCLASSIFIED  
CLASSIFICATION

P-8A EXHIBIT  
FY 2001 President's Budget  
February 2000

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

Ship Type: CVN77	( 1 ) FY01 <u>TOT COST</u>
<b>ELECTRICAL EQUIPMENT</b>	
a. P-35 Items	
C4ISR (Command, Control, Communications, Computers, Intellig Surveillance and Reconnaissance)	118,867
NSWPC (Naval Strike Warfare Planning System)	28,975
ICDS (Integrated Combat Direction System)	54,535
CEC (AN/USG-2) [Cooperative Engagement Capability]	17,754
ACLS (AN/SPN-46(V)3) [Automated Carrier Landing System]	16,042
AIEWS (AN/SLY-2) [Automated Integrated Electronic Warfare Sy	16,762
IFF (AN/UPX-29) [Identification Friend or Foe System]	7,785
BFTT (Battle Force Tactical Training System)	7,069
Carrier Air Traffic Control Center (CATCC), (AN/TPX-42A(V)14)	4,065
Subtotal	271,854
b. Major Items	
NIXIE (AN/SLQ-25A Dual) Surface Ship Torpedo Defense System	1,889
CADRT (AN/SSQ-121) Computer Aided Dead Reckoning Tracer	2,971
ILS (AN/SPN-41) Instrument Landing System	3,457
ES (AN/SLQ-20B) IFF Processor	2,281
Subtotal	<u>10,598</u>
c. Miscellaneous Electronics	20,237
<b>TOTAL ELECTRONICS</b>	<b>302,689</b>

UNCLASSIFIED  
CLASSIFICATION

P-8A EXHIBIT  
FY 2001 President's Budget  
February 2000

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

Ship Type: CVN-77

( 1 )  
FY01  
TOT COST

HULL, MECHANICAL & ELECTRICAL

a. Major Items

LIFERAFTS	1,896
RLGN (AN/WSN-7(V)3) Ring Laser Gyro Navigation Set	3,049
ENVIRON EQPT (WASTE MGMT)	2,544
TRUCKS (Forklifts)	<u>2,342</u>

Subtotal 9,831

b. Miscellaneous Hull, Mechanical & Electrical 18,216

TOTAL HULL, MECHANICAL & ELECTRICAL 28,047

UNCLASSIFIED  
CLASSIFICATION

P-8A EXHIBIT  
FY 2001 President's Budget  
February 2000

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

Ship Type: CVN-77

( 1 )  
FY01  
TOT COST

OTHER

a. Major Items

CONTRACT ENGIN. SERVICES	19,814
BERTHING & MESS.	5,001
IN-HOUSE ENGIN. SERVICES	8,368
MANAGEMENT SPT SERVICES	8,727
PLANNED MAINTENANCE	847
COMMISSIONING	764
TOTAL OTHER	<u>43,521</u>

UNCLASSIFIED  
CLASSIFICATION

P-8A EXHIBIT  
FY 2001 President's Budget  
February 2000

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

Ship Type: CVN-77

( 1 )  
FY01  
TOT COST

ORDNANCE

a. P-35 Items

MK 49 GMLS-HAS (FORMERLY RAM) Missile Launching Sy	26,330
CV-TSC (Carrier Tactical Support Center)	16,350
AIRCRAFT RECOVERY SYSTEM (ARRESTING GEAR)	16,287
AIRCRAFT LAUNCH SYSTEM (CATAPULT EQPT)	19,150
IFLOLS, MOVLAS, HUD, LRLS [Improved Fresnel Landing O Lighting System/MOVLAS/Heads Up Display/Long Range Lineup System]	<u>4,472</u>

Subtotal 82,588

b. Major Items

ASDS (AN/SPQ-14) [Advanced Sensor Distribution System]	3,219
VLA [Visual Landing Aids]	2,418
ADMACS [Aviation Data Management Control Systems]	2,188
ILARTS [Integrated Launch and Recovery Television System]	2,843
NDWMIS (NEW DIGITAL SHIPBD WIND MEASUREMENT)	<u>1,241</u>

Subtotal 11,910

c. Miscellaneous Ordnance

9,222

TOTAL ORDNANCE

103,720

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

P-35 EXHIBIT  
 FY 2001 President's Budget  
 February 2000

Ship Type: CARRIER REPLACEMENT PROGRAM  
 Equipment Line: C4ISR  
 Parm Code - SPAWAR 05F

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

Provides an integrated communications infrastructure to support both tactical and non-tactical applications in all warfare and support areas, an improved shipboard RF distribution system and multiband antennas and capabilities for the control and monitoring of RF assets, introduces network automation and provides interoperable communications for joint operations. It will interconnect forces of the Battle Group(BA)/Amphibious Readiness Group(ARG) and will connect 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. C4ISR includes weather, navigational, signals exploitation and command and control equipments.

**II. CURRENT FUNDING:**

P-35 Category	<u>FY 2001</u>
1. Major Hardware	58,155
2. Ancillary Equipment	1,201
3. Technical Data and Documentation	2,356
4. Spares	7,039
5. System Engineering	15,248
6. Tech Engineering Services	5,826
7. Other Costs	<u>29,042</u>
TOTAL	<u>118,867</u>

**III. CONTRACT DATA:**

PROGRAM	PRIME	CONTRACT	HARDWARE	CONTRACT		
<u>YEAR</u>	<u>SHIP TYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN	Various	Various	1	58,155	Various

**IV. DELIVERY DATA:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>
JAN 08	24	Various 1-10	Various

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

P-35 EXHIBIT  
 FY 2001 President's Budget  
 February 2000

Ship Type: CARRIER REPLACEMENT PROGRAM  
 Equipment Line: Naval Strike Warfare Planning Center (NSWPC (Formerly CVIC))  
 Parm Code - NAVAIR PMA 281

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The NSWPC improves Carrier Air Wing capability for mission planning, targeting and rehearsal using the next generation of Precision Guided Munitions. It integrates mission planning, imagery processing and targeting systems within the Carrier Intelligence Center (CVIC). The system will interface with ICAN, IT21, GCCS-M6.x, Challenge

II. CURRENT FUNDING:

P-35 Category	<u>FY 2001</u>
1. Major Hardware	13,736
2. Ancillary Equipment	0
3. Technical Data and Documentation	0
4. Spares	709
5. System Engineering	2,002
6. Tech Engineering Services	1,437
7. Other Costs	<u>11,091</u>
TOTAL	<u>28,975</u>

III. CONTRACT DATA:

PROGRAM	PRIME	CONTRACTOR	HARDWARE	CONTRACT	
<u>YEAR</u>	<u>SHIP TYPE</u>	<u>CONTRACTOR TYPE</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>	
FY 01	CVN	Various	1	0	Various

IV. DELIVERY DATA:

EARLIEST SHIP	MONTHS REQUIRED	PRODUCTION	REQUIRED
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>
JAN 08	24	Various	Various

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

P-35 EXHIBIT  
 FY 2001 President's Budget  
 February 2000

Ship Type: CARRIER REPLACEMENT PROGRAM  
 Equipment Line: Integrated Combat Direction System (ICDS (Formerly ACDS/SSDS))  
 Parm Code - PEO TAD SC

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

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

II. CURRENT FUNDING:

P-35 Category	<u>FY 2001</u>
1. Major Hardware	21,352
2. Ancillary Equipment	0
3. Technical Data and Documentation	1,313
4. Spares	3,587
5. System Engineering	3,063
6. Tech Engineering Services	1,969
7. Other Costs	<u>23,251</u>
TOTAL	<u>54,535</u>

III. CONTRACT DATA:

PROGRAM	PRIME	CONTRACT	HARDWARE	CONTRACT
<u>YEAR</u>	<u>SHIP TYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>AWARD DATE</u>
FY 01	CVN	Raytheon	CPAF	TBD
			<u>QTY</u>	<u>UNIT COST</u>
			1	0

IV. DELIVERY DATA:

EARLIEST SHIP	MONTHS REQUIRED	PRODUCTION	REQUIRED
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>
JAN 08	24	24	JAN 04



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

P-35 EXHIBIT  
 FY 2001 President's Budget  
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Ship Type: CARRIER REPLACEMENT PROGRAM  
 Equipment Line: Automated Carrier Landing System (ACLS) (AN/SPN-46 (V)3)  
 Parm Code - NAVAIR PMA 213

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

Precision Landing System used for non-clear weather aircraft landings on board CVs.

II. CURRENT FUNDING:

P-35 Category	<u>FY 2001</u>
1. Major Hardware	13,536
2. Ancillary Equipment	0
3. Technical Data and Documentation	0
4. Spares	210
5. System Engineering	324
6. Tech Engineering Services	137
7. Other Costs	<u>1,835</u>
TOTAL	<u>16,042</u>

III. CONTRACT DATA:

<u>PROGRAM</u> <u>YEAR</u>	<u>PRIME</u> <u>SHIP TYPE</u>	<u>CONTRACTOR</u>	<u>CONTRACT</u> <u>TYPE</u>	<u>QTY</u>	<u>HARDWARE</u> <u>UNIT COST</u>	<u>CONTRACT</u> <u>AWARD DATE</u>
FY 01	CVN	TBD	TBD	1	13,536	TBD

IV. DELIVERY DATA:

<u>EARLIEST SHIP</u> <u>DELIVERY DATE</u>	<u>MONTHS REQUIRED</u> <u>BEFORE DELIVERY</u>	<u>PRODUCTION</u> <u>LEAD TIME</u>	<u>REQUIRED</u> <u>AWARD DATE</u>
JAN 08	TBD	TBD	TBD

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

P-35 EXHIBIT  
 FY 2001 President's Budget  
 February 2000

Ship Type: CARRIER REPLACEMENT PROGRAM  
 Equipment Line: Automated Integrated Electronic Warfare System (AIEWS) (AN/SLY-2)  
 Parm Code - PEO TAD SC

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

AIEWS replaces the AN/SLQ-32 system. AIEWS will detect RF transmissions, identify the system from which the signal originated and the frequency bands used by the system. AIEWS will also provide a jamming capability.

II. CURRENT FUNDING:

P-35 Category	<u>FY 2001</u>
1. Major Hardware	13,594
2. Ancillary Equipment	0
3. Technical Data and Documentation	89
4. Spares	605
5. System Engineering	0
6. Tech Engineering Services	822
7. Other Costs	<u>1,652</u>
TOTAL	<u>16,762</u>

III. CONTRACT DATA:

PROGRAM	PRIME	CONTRACT	HARDWARE	CONTRACT
<u>YEAR</u>	<u>SHIP TYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>AWARD DATE</u>
FY 01	CVN	TBD	TBD	TBD
			1	13,594

IV. DELIVERY DATA:

EARLIEST SHIP	MONTHS REQUIRED	PRODUCTION	REQUIRED
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>
JAN 08	TBD	TBD	TBD

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

P-35 EXHIBIT  
 FY 2001 President's Budget  
 February 2000

Ship Type: CARRIER REPLACEMENT PROGRAM  
 Equipment Line: Identification, Friend or Foe System (IFF)  
 Parm Code - NAVAIR PMA 213

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

This IFF system provides instantaneous IFF operations on pop-up targets and interfaces directly with shipboard Command and Control computer systems. It provides a self defense capability against air threats.

II. CURRENT FUNDING:

P-35 Category	<u>FY 2001</u>
1. Major Hardware	5,308
2. Ancillary Equipment	317
3. Technical Data and Documentation	130
4. Spares	573
5. System Engineering	411
6. Tech Engineering Services	199
7. Other Costs	<u>847</u>
TOTAL	<u>7,785</u>

III. CONTRACT DATA:

<u>PROGRAM</u> <u>YEAR</u>	<u>PRIME</u> <u>SHIP TYPE</u>	<u>CONTRACTOR</u> <u>TYPE</u>	<u>CONTRACT</u> <u>TYPE</u>	<u>QTY</u>	<u>HARDWARE</u> <u>UNIT COST</u>	<u>CONTRACT</u> <u>AWARD DATE</u>
FY 01	CVN	TBD	TBD	1	5,308	TBD

IV. DELIVERY DATA:

<u>EARLIEST SHIP</u> <u>DELIVERY DATE</u>	<u>MONTHS REQUIRED</u> <u>BEFORE DELIVERY</u>	<u>PRODUCTION</u> <u>LEAD TIME</u>	<u>REQUIRED</u> <u>AWARD DATE</u>
JAN 08	TBD	TBD	TBD

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

Ship Type: CARRIER REPLACEMENT PROGRAM  
 Equipment Line: Battle Force Tactical Training System  
 Parm Code - PMS 430

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The Battle Force Tactical Training System provides a comprehensive combat system team training capability from the individual unit to the Battle Force level with connectivity to Joint Training.

II. CURRENT FUNDING:

P-35 Category	<u>FY 2001</u>
1. Major Hardware	4,872
2. Ancillary Equipment	0
3. Technical Data and Documentation	37
4. Spares	58
5. System Engineering	158
6. Tech Engineering Services	184
7. Other Costs	<u>1,760</u>
TOTAL	<u>7,069</u>

III. CONTRACT DATA:

PROGRAM	PRIME	CONTRACT	HARDWARE	CONTRACT
<u>YEAR</u>	<u>SHIP TY</u>	<u>CONTRACT TYPE</u>	<u>QTY</u>	<u>UNIT COST</u>
FY 01	CVN	TBD	TBD	1
				4,872
				TBD

IV. DELIVERY DATA:

EARLIEST SHIP	MONTHS REQUIRED	PRODUCTION	REQUIRED
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>
JAN 08	TBD	TBD	TBD

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

P-35 EXHIBIT  
 FY 2001 President's Budget  
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Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM  
 Equipment Line: Carrier Air Traffic Control Center (CATCC), (AN/TPX-42A(V)14)  
 Parm Code - PMA 213

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

Carrier Air Traffic Control Center: This is an automatic beacon and radar tracking system (IFF) that provides safe air space control of aircraft operations. The system also provides processing of radar data for target detection and tracking, processing, and displaying flight plans, reference points, and map lines for easy association with mission operations.

II. CURRENT FUNDING:

P-35 Category	<u>FY 2001</u>
1. Major Hardware	1,946
2. Ancillary Equipment	0
3. Technical Data and Documentation	0
4. Spares	289
5. System Engineering	811
6. Tech Engineering Services	0
7. Other Costs	<u>1,019</u>
TOTAL	4,065

III. CONTRACT DATA:

PROGRAM	PRIME	CONTRACT	HARDWARE	CONTRACT		
<u>YEAR</u>	<u>SHIP TYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN	TBD	TBD	1	1,946	TBD

IV. DELIVERY DATA:

EARLIEST SHIP	MONTHS REQUIRED	PRODUCTION	REQUIRED
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>
JAN 08	TBD	TBD	TBD

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

P-35 EXHIBIT  
 FY 2001 President's Budget  
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Ship Type: CARRIER REPLACEMENT PROGRAM  
 Equipment Line: MK29 GMLS W/HAS (formerly RAM)  
 Parm Code - PEO EXW (PMS472)

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

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

II. CURRENT FUNDING:

P-35 Category	<u>FY 2001</u>
1. Major Hardware	13,426
2. Ancillary Equipment	0
3. Technical Data and Documentation	0
4. Spares	1,071
5. System Engineering	2,397
6. Tech Engineering Services	1,766
7. Other Costs	<u>7,670</u>
TOTAL	26,330

III. CONTRACT DATA:

<u>PROGRAM</u> <u>YEAR</u>	<u>PRIME</u> <u>SHIP TYPE</u>	<u>CONTRACTOR</u>	<u>CONTRACT</u> <u>TYPE</u>	<u>QTY</u>	<u>HARDWARE</u> <u>UNIT COST</u>	<u>CONTRACT</u> <u>AWARD DATE</u>
FY 01	CVN	Raytheon	FFP	2	13,426	TBD

IV. DELIVERY DATA:

<u>EARLIEST SHIP</u> <u>DELIVERY DATE</u>	<u>MONTHS REQUIRED</u> <u>BEFORE DELIVERY</u>	<u>PRODUCTION</u> <u>LEAD TIME</u>	<u>REQUIRED</u> <u>AWARD DATE</u>
JAN 08	18	24	JUL 04

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

P-35 EXHIBIT  
 FY 2001 President's Budget  
 January 2000

Ship Type: CARRIER REPLACEMENT PROGRAM  
 Equipment Line: Aircraft Carrier Tactical Support Center (CV-TSC)  
 Parm Code - PEO USW (PMS411)

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 and post-mission briefing, real-time analysis, and mission reconstruction/evaluation of USW data for tactical support to the operational chain of command.

II. CURRENT FUNDING:

P-35 Category	<u>FY 2001</u>
1. Major Hardware	10,477
2. Ancillary Equipment	332
3. Technical Data and Documentation	0
4. Spares	0
5. System Engineering	0
6. Tech Engineering Services	966
7. Other Costs	<u>4,575</u>
TOTAL	16,350

III. CONTRACT DATA:

PROGRAM	PRIME	CONTRACT	HARDWARE	CONTRACT
<u>YEAR</u>	<u>SHIP TYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>QTY</u>
<u>UNIT COST</u>	<u>AWARD DATE</u>			
FY 01	CVN	JUWC Keypoi	FFP	1
10,477	TBD			

IV. DELIVERY DATA:

EARLIEST SHIP	MONTHS REQUIRED	PRODUCTION	REQUIRED
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>
JAN 08	24	24	JAN 04

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

P-35 EXHIBIT  
 FY 2001 President's Budget  
 January 2000

Ship Type: CARRIER REPLACEMENT PROGRAM  
 Equipment Line: Aircraft Recovery System (Arresting Gear)  
 Parm Code - NAVAIR PMA 251

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The Mark 7 arresting gear is a linear hydraulic system that 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	<u>FY 2001</u>
1. Major Hardware	12,349
2. Ancillary Equipment	0
3. Technical Data and Documentation	0
4. Spares	207
5. System Engineering	0
6. Tech Engineering Services	3,731
7. Other Costs	<u>0</u>
TOTAL	16,287

III. CONTRACT DATA:

PROGRAM <u>YEAR</u>	PRIME <u>SHIP TYPE</u>	CONTRACTOR <u>CONTRACTOR</u>	CONTRACT <u>TYPE</u>	QTY <u>QTY</u>	HARDWARE <u>UNIT COST</u>	CONTRACT <u>AWARD DATE</u>
FY 01	CVN	TBD	TBD	1	12,349	TBD

IV. DELIVERY DATA:

EARLIEST SHIP <u>DELIVERY DATE</u>	MONTHS REQUIRED <u>BEFORE DELIVERY</u>	PRODUCTION <u>LEAD TIME</u>	REQUIRED <u>AWARD DATE</u>
JAN 08	TBD	TBD	TBD

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

P-35 EXHIBIT  
 FY 2001 President's Budget  
 January 2000

Ship Type: CARRIER REPLACEMENT PROGRAM  
 Equipment Line: Aircraft Launch System (Catapult Equipment)  
 Parm Code - NAVAIR PMA 251

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

With few exceptions, 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. A catapult supplies this additional power. 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. A direct-drive, steam-type catapult is used on all carriers.

II. CURRENT FUNDING:

P-35 Category	<u>FY 2001</u>
1. Major Hardware	12,680
2. Ancillary Equipment	0
3. Technical Data and Documentation	0
4. Spares	86
5. System Engineering	0
6. Tech Engineering Services	3,766
7. Other Costs	<u>2,618</u>
TOTAL	19,150

III. CONTRACT DATA:

PROGRAM <u>YEAR</u>	PRIME <u>SHIP TYPE</u>	CONTRACTOR <u>CONTRACTOR</u>	CONTRACT <u>TYPE</u>	<u>QTY</u>	HARDWARE <u>UNIT COST</u>	CONTRACT <u>AWARD DATE</u>
FY 01	CVN	TBD	TBD	1	12,680	TBD

IV. DELIVERY DATA:

<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE DELIVERY</u>	<u>PRODUCTION LEAD TIME</u>	<u>REQUIRED AWARD DATE</u>
JAN 08	TBD	TBD	TBD

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

P-35 EXHIBIT  
 FY 2001 President's Budget  
 January 2000

Ship Type: CARRIER REPLACEMENT PROGRAM  
 Equipment Line: Improved Fresnel Optical Landing System (IFLOLS), (MOVLAS, HUD)  
 Parm Code - PMA 251B

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

Improved Fresnel Optical Landing System: This is an improved primary optical landing aid on carriers that displays glide slope information from 1 NM to touchdown. IFLOLS will replace the FLOLS MK 6 Mod 3 on all carriers and is currently on the CVN-73. IFLOLS has glass optics and is taller than the FLOLS which makes the "ball" more sensitive and crisper.

II. CURRENT FUNDING:

P-35 Category	<u>FY 2001</u>
1. Major Hardware	2,071
2. Ancillary Equipment	0
3. Technical Data and Documentation	82
4. Spares	120
5. System Engineering	0
6. Tech Engineering Services	2,199
7. Other Costs	<u>0</u>
TOTAL	4,472

III. CONTRACT DATA:

PROGRAM	PRIME	CONTRACT	HARDWARE	CONTRACT		
<u>YEAR</u>	<u>SHIP TYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN	TBD	TBD	1	2,071	TBD

IV. DELIVERY DATA:

EARLIEST SHIP	MONTHS REQUIRED	PRODUCTION	REQUIRED
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>
JAN 08	TBD	TBD	TBD

Exhibit P-10, Advance Procurement Requirements Analysis (Page 1 - Funding)								Date: <b>February 2000</b>							
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number <b>BA #2 OTHER WARSHIPS</b>								P-1 Line Item Nomenclature <b>CARRIER REPLACEMENT PROGRAM</b>							
Weapon System <b>CVN 77</b>				First System (BY2) Award Date <b>Dec-00</b>				First System (BY2) Completion Date <b>Jan-08</b>							
(\$ in Millions)															
	PLT	When Req'd	Prior Years	PY-1 FY 97	PY FY 98	CY FY 99	BY1 FY 00	BY2 FY 01	BY3 FY 02	BY4 FY 03	BY5 FY 04	BY6 FY 05	To Complete	Total	
End Item Qty														0	
														0.00	
Plans (Detailed)														0.000	
Basic					48.634	57.260	100.000							205.894	
Other Engineer					0.103	0.767	19.073							19.943	
Nuc Prop Equip						64.870	630.528							695.398	
HM&E														0.000	
Electronics														0.000	
Ordnance/Air														0.000	
Total AP			0.00	0.00	48.737	122.897	749.601	0.000	0.000	0.000	0.000	0.000	0.000	921.235	
Description:															

Exhibit P-10, Advance Procurement Requirements Analysis

Exhibit P-10, Advance Procurement Requirements Analysis (Page 2 - Budget Justification)											Date: <b>February 2000</b>	
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number <b>BA #2 OTHER WARSHIPS</b>					Weapon System <b>CVN 77</b>				P-1 Line Item Nomenclature <b>CARRIER REPLACEMENT PROGRAM</b>			
(TOA, \$ in Millions)												
	PLT	QPA	Unit Cost	FY 98 Qty*	FY 98 Contract Forecast Date	FY 98 Total Cost Request	FY 99 Qty*	FY 99 Contract Forecast Date	FY 99 Total Cost Request	FY 00 Qty*	FY 00 Contract Forecast Date	FY 00 Total Cost Request
End Item												
Plans (Detailed)												
Basic			205.894		September-98	48.634		April-99	57.260		February-00	100.000
Other Engineer			19.943		February-00	0.103		March-99	0.767		February-00	19.073
Nuc Prop Equip			695.398					November-98	64.870		October-99	630.528
HM&E												
Electronics												
Ordnance/Air												
Total AP			921.235			48.737			122.897			749.601

Exhibit P-10, Advance Procurement Funding

Exhibit P-10, Advance Procurement Requirements Analysis (Page 1 - Funding)								Date: <b>February 2000</b>							
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number <b>BA #2 OTHER WARSHIPS</b>								P-1 Line Item Nomenclature <b>CARRIER REPLACEMENT PROGRAM</b>							
Weapon System <b>CVNX</b>				First System (BY1) Award Date <b>Dec-06</b>				First System (BY1) Completion Date <b>Jan-13</b>							
(\$ in Millions)															
	PLT	When Req'd	Prior Years	PY-1 FY 97	PY FY 98	CY FY 99	BY1 FY 00	BY2 FY 01	BY3 FY 02	BY4 FY 03	BY5 FY 04	BY6 FY 05	To Complete	Total	
End Item Qty													TBD	TBD	
Plans (Detailed)										136.46	158.37	128.83		423.66	
Basic														0.00	
Other Engineer														0.00	
Nuc Prop Equip								21.87	146.83	291.70	991.24			1451.64	
HM&E											173.68			173.68	
Electronics														0.00	
Ordnance/Air														0.00	
Total AP			0.00	0.00	0.00	0.00	0.00	21.87	146.83	428.16	1323.29	128.83	0.00	2048.98	
Description:															

Exhibit P-10, Advance Procurement Requirements Analysis

Exhibit P-10, Advance Procurement Requirements Analysis (Page 2 - Budget Justification)											Date: <b>February 2000</b>	
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number <b>BA #2 OTHER WARSHIPS</b>						Weapon System <b>CVNX</b>			P-1 Line Item Nomenclature <b>CARRIER REPLACEMENT PROGRAM</b>			
(TOA, \$ in Millions)												
	PLT	QPA	Unit Cost	FY 01 Qty*	FY 01 Contract Forecast Date	FY 01 Total Cost Request	FY 02 Qty*	FY 02 Contract Forecast Date	FY 02 Total Cost Request	FY 03 Qty*	FY 03 Contract Forecast Date	FY 03 Total Cost Request
End Item												
Plans (Detailed)			423.66								October-02	136.46
Basic												
Other Engineer												
Nuc Prop Equip			1451.64		October-00	21.87		October-01	146.83		October-02	291.70
HM&E			173.68									
Electronics												
Ordnance/Air												
Total AP			2048.98			21.87			146.83			428.16

Exhibit P-10, Advance Procurement Funding

Exhibit P-10, Advance Procurement Requirements Analysis (Page 2 - Budget Justification)										Date: <b>February 2000</b>		
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number <b>BA #2 OTHER WARSHIPS</b>					Weapon System <b>CVNX</b>					P-1 Line Item Nomenclature <b>CARRIER REPLACEMENT PROGRAM</b>		
(TOA, \$ in Millions)												
	PLT	QPA	Unit Cost	FY 04 Qty*	FY 04 Contract Forecast Date	FY 04 Total Cost Request	FY 05 Qty*	FY 05 Contract Forecast Date	FY 05 Total Cost Request			
End Item												
Plans (Detailed)			423.66		October-03	158.37		October-04	128.83			
Basic												
Other Engineer												
Nuc Prop Equip			1451.64		October-03	991.24						
HM&E			173.68		October-03	173.68						
Electronics												
Ordnance/Air												
Total AP			2048.98			1323.29			128.83			0.00

Exhibit P-10, Advance Procurement Funding

CLASSIFICATION: UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET (P-40)  
 FY 2001 PRESIDENT BUDGET

DATE:  
 FEBRUARY 2000

APPROPRIATION/BUDGET ACTIVITY

Ship and Conversion, Navy/BA#2 OTHER WARSHIPS

P-1 ITEM NOMENCLATURE

SSN774/SSN775/SSN776

Total Funding By Ship	#PRIOR YEARS	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	TO COMPLETE	TOTAL PROGRAM
QUANTITY	1	1	0	1	1	1	1	1	23	30
End Cost	3386.1	2210.7	0.0	2019.5	1962.4	1911.7	1958.4	1979.4	44757.3	60185.5
Less Advance Procurement	981.5	694.2	0.0	816.5	680.5	676.7	696.7	699.2	16719.6	21964.9
Less Cost to Complete	259.7	69.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	329.0
Full Funding TOA	2144.9	1447.2	0.0	1203.0	1281.9	1235.1	1261.7	1280.2	28037.7	37891.6
Plus Advance Procurement	1843.7	503.2	746.6	508.2	675.7	701.7	699.2	1083.3	15203.3	21964.9
Total Obligational Authority	3988.5	1950.4	746.6	1711.2	1957.6	1936.7	1960.9	2363.5	43241.0	59856.5
<b>Total Program Funding by FY</b>										
PY Completion of Shipbuilding*				119.0	180.0	30.0				329.0
Plus Outfitting and Post Delivery	0.0	0.0	.1	.0	3.4	17.4	30.1	32.7	1399.8	1483.7
Total	3988.5	1950.4	746.7	1830.2	2141.0	1984.1	1991.0	2396.2	44640.8	61669.2
Unit Cost (Ave. End Cost)	3386.1	2210.7	N/A	2019.5	1962.4	1911.7	1958.4	1979.4	1946.0	2006.2

**Notes:**

# FY98 assumes pending reprogramming of -87,500

\* Additional funding for completion of prior year construction is included in SCN Line Item #20 (BA-5, BLI 530000).

**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		Production Status (Lead Ship):	
Length overall	377'	Contract Plans	Jan-96
Beam	34'	Award Planned (Month)	Sep-98
Displacement	7830	Months to Complete	
Draft	32'	a) Award to Delivery	70
		b) Construction Start to Delivery	81
		Commissioning Date	Jul-04
		Completion of	
		Fitting-Out	Jun-04

Armament:

Torpedo Tubes	Vertical Launch Tubes	Major Electronics:	
		Command, Control, Communications and Intelligence System	
		- Open System Architecture	
		- Fifteen Subsystems	

DD Form 2454, JUL 88

CLASSIFICATION: UNCLASSIFIED

UNCLASSIFIED  
CLASSIFICATION

FY 2001 PRESIDENT BUDGET  
FEBRUARY 2000

APPROPRIATION: SHIPBUILDING AND  
CONVERSION, NAVY

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)

BUDGET ACTIVITY: 2  
OTHER WARSHIPS

P-1 ITEM NOMENCLATURE: NEW SSN

SUBHEAD: 7232/H232

	FY 1998		FY 1999		FY 2001	
ELEMENTS OF COST	QTY	TOT COST	QTY	TOT COST	QTY	TOT COST
PLAN COSTS	1	1,366,562	1	250,170	1	60,751
BASIC CONST/CONVERSION		975,073		1,057,415		1,060,143
CHANGE ORDERS		87,987		52,871		53,007
TECHNOLOGY INSERTION		0		0		11,499
ELECTRONICS		255,152		189,139		203,499
PROPULSION EQUIPMENT		452,000		421,374		430,149
HM&E		225,994		217,604		171,823
OTHER COST		23,331		22,078		28,632
ORDNANCE		0		0		0
ESCALATION		0		0		0
TOTAL SHIP ESTIMATE		3,386,099		2,210,651		2,019,503
LESS AP FY96		(691,589)		(98,706)		
LESS AP FY97		(289,882)		(485,822)		
LESS AP FY98				(109,655)		(168,000)
LESS AP FY99						(503,233)
LESS AP FY00						(145,258)
LESS CTC FY01		(119,000)				
LESS CTC FY02		(140,739)		(39,261)		
LESS CTC FY03				(30,000)		
NET P-1 LINE ITEM		2,144,889		1,447,207		1,203,012

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

Fiscal Year: 2001

Ship Type: VIRGINIA CLASS

I.	<u>Design Schedule:</u>	<u>Start/Issue</u>	<u>Complete/Response</u>	<u>Reissue Complete/Response</u>
	Issue Date for TLR	N/A	N/A	
	Issue Date for TLS	N/A	N/A	
	Preliminary Design	Oct-93	Sep-95	
	Contract Design	Oct-94	Sep-96	
	Detail Design	Jan-96	Jun-02	
	Request for Proposals	N/A	N/A	
	Design Agent	Electric Boat		
II.	<u>Classification of Cost Estimate</u>	N/A		
III.	<u>Basic Construction/Conversion</u>	<u>FY1998</u>	<u>FY1999</u>	<u>FY2001</u>
	A. Award Date	Sep-98	Sep-98	Sep-98
	B. Contract Type and Share Line	CPIF	CPIF	CPIF
IV.	<u>Escalation</u>	<u>SSN774</u>	<u>SSN775</u>	<u>SSN776</u>
	Base Date	N/A	N/A	N/A
	Escalation Target Date	N/A	N/A	N/A
	Escalation Termination Date	N/A	N/A	N/A
	Escalation Requirement (\$K)	N/A	N/A	N/A
	Labor/Material Split	N/A	N/A	N/A
	Allowable Overhead Rate	N/A	N/A	N/A
V.	<u>Other Basic (Reserves/Miscellaneous)</u>	<u>Amount</u>		
	Item	N/A		
	Item	N/A		

UNCLASSIFIED  
CLASSIFICATION

SHIPBUILDING AND CONVERSION, NAVY  
SHIP PRODUCTION SCHEDULE

EXHIBIT P-27  
FY 2001 PRESIDENT BUDGET  
FEBRUARY 2000

SHIP TYPE	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
SSN774	EB/NNS	98	Sep-98	Oct-97	Jun-04
SSN775	EB/NNS	99	Sep-98	Aug-98	Jun-05
SSN776	EB/NNS	01	Sep-98	Jul-00	Dec-06

UNCLASSIFIED  
CLASSIFICATION

P-8A EXHIBIT  
FY 2001 PRESIDENT BUDGET  
FEBRUARY 2000

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

Ship Type:	FY 1998		FY 1999		FY 2001	
VIRGINIA CLASS	<u>QTY</u>	<u>TOT COST</u>	<u>QTY</u>	<u>TOT COST</u>	<u>QTY</u>	<u>TOT COST</u>
<b>HM&amp;E EQUIPMENT</b>						
1. MPC	1 Shipset	\$67,302	1 Shipset	\$132,138	1 Shipset	\$132,505
2. Propulsor	1 Shipset	\$42,796	1 Shipset	\$31,283	1 Shipset	\$29,530
3. Main Condensers	1 Shipset	\$25,090	1 Shipset	\$7,875		
Subtotal		\$135,188		\$171,296		\$162,035
1. Heat Exchanger	1 Shipset	\$12,362	1 Shipset	\$5,333		
2. Switchboard Elec	1 Shipset	\$12,803	1 Shipset	\$8,000		
3. VLS PSE	1 Shipset	\$9,206	1 Shipset	\$7,197		
4. MSW Pumps	1 Shipset	\$13,260	1 Shipset	\$4,616		
5. H&B Valves	1 Shipset	\$16,547	1 Shipset	\$4,746		
6. MF&C Pumps	1 Shipset	\$4,459	1 Shipset	\$2,549		
7. ASW Pumps	1 Shipset	\$4,785	1 Shipset	\$2,862		
8. CSA MK2	1 Shipset	\$1,406	1 Shipset	\$934		\$1,234
Subtotal		\$74,828		\$36,237		\$1,234
1. Misc HM&E		\$12,776		\$4,049		\$4,450
2. T&E		\$3,202		\$6,022		\$4,104
Subtotal		\$15,978		\$10,071		\$8,554
<b>TOTAL HM&amp;E</b>		<b>\$225,994</b>		<b>\$217,604</b>		<b>\$171,823</b>

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET

P-35

ITEM:

MAIN PROPULSION COMPLEX

FY 2001 PRESIDENT BUDGET  
FEBRUARY 2000

I. DESCRIPTION/CHARACTERISTICS/PURPOSE

The Main Propulsion Complex (MPC) consists of the Main Propulsion Unit (MPU) and the Ship Service Turbine Generators (SSTG). The MPU consists of port and starboard turbines, reduction gears, thrust bearings and clutches mounted on a cast base. The MPU also includes an emergency propulsion motor and clutch. The purpose of the MPU is to utilize steam produced by the propulsion plant to propel the ship through the water via an arrangement of gearing and shafting. The SSTG is the main source of electric power for shipboard use. Interchangeable port and starboard SSTG units are steam driven and integrated with the main condensers which serve to recycle the steam in the secondary system

II. CURRENT FUNDING:

SHIP:	QTY	FY 1998	QTY	FY 1999	QTY	FY 2001
MAJOR HARDWARE	1	61,202	1	127,092	1	127,275
SYSTEMS ENGINEERING		6,100		3,000		3,000
TECH ENGINEERING SERVICES		0		2,046		2,230
OTHER COSTS		0		0		0
TOTAL		67,302		132,138		132,505

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
98	SSN774	EBCorp	1 Shipset	61,202	Sep-94
99	SSN775	EBCorp	1 Shipset	127,092	Nov-97
01	SSN776	EBCorp	1 Shipset	127,275	Dec-98

IV. DELIVERY DATA:

FY	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEAD TIME	REQUIRED AWARD DATE
98	SSN774	Jun-04	45	46	Nov-96
99	SSN775	Jun-05	45	46	Nov-97
01	SSN776	Dec-06	45	46	May-99

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET

P-35

ITEM: PROPULSOR

FY 2001 PRESIDENT BUDGET  
FEBRUARY 2000

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.

II. CURRENT FUNDING:

SHIP:	QTY	FY 1998	QTY	FY 1999	QTY	FY 2001
MAJOR HARDWARE	1	42,796	1	26,478	1	24,921
TECH ENGINEERING SERVICES		0		4,805		4,609
OTHER COSTS		0		0		0
TOTAL		42,796		31,283		29,530

III. CONTRACT DATA:

PROGRAM				HARDWARE	CONTRACT
YEAR	SHIP TYPE	CONTRACTOR	QTY	UNIT COST	AWARD DATE
98	SSN774	United Defense	1 Shipset	21,269	Dec-98
99	SSN775	United Defense	1 Shipset	12,338	Dec-98
01	SSN776	United Defense	1 Shipset	12,768	Dec-98

IV. DELIVERY DATA:

FY	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEAD TIME	REQUIRED AWARD DATE
98	SSN774	Jun-04	26	36	Apr-99
99	SSN775	Jun-05	26	36	Apr-00
01	SSN776	Dec-06	26	36	Oct-01

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET

P-35

ITEM: MAIN CONDENSER

FY 2001 PRESIDENT BUDGET  
FEBRUARY 2000

I. DESCRIPTION/CHARACTERISTICS/PURPOSE

A heat exchanger, that serves to condense exhaust steam from main and SSTG turbines, producing fresh water, which is returned to the feed water system to supply the steam generators to produce steam.

II. CURRENT FUNDING:

SHIP:	QTY	FY 1998	QTY	FY 1999
MAJOR HARDWARE	1	21,030	1	6,570
TECH ENGINEERING SERVICES		2,516		809
OTHER COSTS		1,544		496
TOTAL		25,090		7,875

III. CONTRACT DATA:

PROGRAM				HARDWARE
YEAR	SHIP TYPE	CONTRACTOR	QTY	UNIT COST
98	SSN774	Electric Boat	1 Shipset	21,030
99	SSN775	Electric Boat	1 Shipset	6,570

IV. DELIVERY DATA:

FY	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEAD TIME	REQUIRED AWARD DATE
98	SSN774	Jun-04	36	66	Jan-96
99	SSN775	Jun-05	36	66	Dec-97

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

UNCLASSIFIED  
CLASSIFICATION

P-8A EXHIBIT  
FY 2001 PRESIDENT BUDGET  
FEBRUARY 2000

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

Ship Type:

VIRGINIA CLASS

	<u>QTY</u>	<u>FY 1998 TOT COST</u>	<u>QTY</u>	<u>FY 1999 TOT COST</u>	<u>QTY</u>	<u>FY 2001 TOT COST</u>
<b>ELECTRONICS EQUIPMENT</b>						
a. P-35 Items						
1. Sonar, Combat Control & Architecture	1 Shipset	\$116,291	1 Shipset	\$66,944	1 Shipset	\$72,364
2. ESM	1 Shipset	\$18,693	1 Shipset	\$19,806	1 Shipset	\$20,667
3. Photonics Masts	1 Shipset	\$20,273	1 Shipset	\$20,300	1 Shipset	\$20,850
4. UMMs	1 Shipset	\$15,328	1 Shipset	\$14,861	1 Shipset	\$14,491
Subtotal		\$170,585		\$121,911		\$128,372
b. Major Items						
1. SRWS	1 Shipset	\$4,197	1 Shipset	\$4,000	1 Shipset	\$4,252
2. System Level Activities	1 Shipset	\$12,779	1 Shipset	\$11,461	1 Shipset	\$14,183
3. AN/BPS-16	1 Shipset	\$3,043	1 Shipset	\$3,025	1 Shipset	\$3,237
4. Navigation	1 Shipset	\$3,091	1 Shipset	\$2,271	1 Shipset	\$2,430
5. AN/UYQ-70	1 Shipset	\$5,367	1 Shipset	\$5,324	1 Shipset	\$6,426
6. ECS	1 Shipset	\$15,095	1 Shipset	\$11,046	1 Shipset	\$13,642
7. CWITT	1 Shipset	\$18,405	1 Shipset	\$15,485	1 Shipset	\$15,365
8. NPES SE&I	1 Shipset	\$22,138	1 Shipset	\$14,168	1 Shipset	\$15,122
Subtotal		\$84,115		\$66,780		\$74,657
c. Other Electronics						
1. Misc Electronics		\$452		\$448		\$470
Subtotal		\$452		\$448		\$470
<b>TOTAL ELECTRONICS</b>		<b>\$255,152</b>		<b>\$189,139</b>		<b>\$203,499</b>

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET

P-35

ITEM: SONAR, COMBAT, CONTROL &  
ARCHITECTURE

FY 2001 PRESIDENT BUDGET  
FEBRUARY 2000

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.

II. CURRENT FUNDING:

SHIP:	QTY	FY 1998	QTY	FY 1999	QTY	FY 2001
MAJOR HARDWARE	1 Shipset	\$51,947	1 Shipset	\$49,989	1 Shipset	\$57,211
TECH ENGINEERING SERVICES		\$2,735		\$2,755		\$2,920
OTHER COSTS		\$61,609		\$14,200		\$12,233
TOTAL		\$116,291		\$66,944		\$72,364

III. CONTRACT DATA:

PROGRAM				HARDWARE	CONTRACT
YEAR	SHIP TYPE	CONTRACTOR	QTY	UNIT COST	AWARD DATE
98	SSN774	LMFS	1 Shipset	\$40,690	Feb-98
99	SSN775	LMFS	1 Shipset	\$39,038	May-99
01	SSN776	LMFS	1 Shipset	\$44,259	Mar-01

IV. DELIVERY DATA:

FY	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEAD TIME	REQUIRED AWARD DATE
98	SSN774	Jun-04	43	32	Mar-98
99	SSN775	Jun-05	38	32	Aug-99
01	SSN776	Dec-06	37	32	Mar-01

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET

P-35

ITEM: ELECTRONIC SUPPORT MEASURES SUBSYSTEM

FY 2001 PRESIDENT BUDGET  
FEBRUARY 2000

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.

II. CURRENT FUNDING:

SHIP:	QTY	FY 1998	QTY	FY 1999	QTY	FY 2001
MAJOR HARDWARE	1 Shipset	\$13,834	1 Shipset	\$12,433	1 Shipset	\$13,179
TECH ENGINEERING SERVICES		\$1,797		\$1,099		\$1,165
OTHER COSTS		\$3,062		\$6,274		\$6,323
TOTAL		\$18,693		\$19,806		\$20,667

III. CONTRACT DATA:

PROGRAM		CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
YEAR	SHIP TYPE				
98	SSN774	LM, Syracuse	1 Shipset	\$13,834	Dec-99
99	SSN775	LM, Syracuse	1 Shipset	\$12,433	Dec-99
01	SSN776	LM, Syracuse	1 Shipset	\$13,179	Nov-01

IV. DELIVERY DATA:

FY	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEAD TIME	REQUIRED AWARD DATE
98	SSN774	Jun-04	43	18	May-99
99	SSN775	Jun-05	38	18	Oct-00
01	SSN776	Dec-06	37	18	May-02

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET

P-35

ITEM: PHOTONICS MAST

FY 2001 PRESIDENT BUDGET  
FEBRUARY 2000

I. DESCRIPTION/CHARACTERISTICS/PURPOSE

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

II. CURRENT FUNDING:

SHIP:	QTY	FY 1998	QTY	FY 1999	QTY	FY 2001
MAJOR HARDWARE	1 Shipset	\$16,688	1 Shipset	\$16,703	1 Shipset	\$15,995
TECH ENGINEERING SERVICES		\$801		\$464		\$479
OTHER COSTS		\$2,784		\$3,133		\$4,376
TOTAL		\$20,273		\$20,300		\$20,850

III. CONTRACT DATA:

PROGRAM				HARDWARE	CONTRACT
YEAR	SHIP TYPE	CONTRACTOR	QTY	UNIT COST	AWARD DATE
98	SSN774	Kollmorgen	1 Shipset	\$16,688	Jan-98
99	SSN775	Kollmorgen	1 Shipset	\$16,703	Dec-99
01	SSN776	Kollmorgen	1 Shipset	\$15,995	Mar-01

IV. DELIVERY DATA:

FY	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEAD TIME	REQUIRED AWARD DATE
98	SSN774	Jun-04	43	24	Nov-98
99	SSN775	Jun-05	38	24	Apr-00
01	SSN776	Dec-06	37	24	Nov-01

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET

P-35

ITEM: UNIVERSAL MODULAR MAST

FY 2001 PRESIDENT BUDGET  
FEBRUARY 2000

I. DESCRIPTION/CHARACTERISTICS/PURPOSE

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

II. CURRENT FUNDING:

SHIP:	QTY	FY 1998	QTY	FY 1999	QTY	FY 2001
MAJOR HARDWARE	1 Shipset	\$9,865	1 Shipset	\$9,711	1 Shipset	\$9,610
TECH ENGINEERING SERVICES		\$1,180		\$1,428		\$1,958
OTHER COSTS		\$4,283		\$3,722		\$2,923
TOTAL		\$15,328		\$14,861		\$14,491

III. CONTRACT DATA:

PROGRAM		CONTRACTOR	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
YEAR	SHIP TYPE				
98	SSN774	Kollmorgen	1 Shipset	\$9,865	Apr-99
99	SSN775	Kollmorgen	1 Shipset	\$9,711	Apr-99
01	SSN776	Kollmorgen	1 Shipset	\$9,610	Dec-00

IV. DELIVERY DATA:

FY	SHIP TYPE	EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEAD TIME	REQUIRED AWARD DATE
98	SSN774	Jun-04	32	27	Jul-99
99	SSN775	Jun-05	41	27	Oct-99
01	SSN776	Dec-06	41	27	Apr-01

V. COMPETITION/SECOND SOURCE INITIATIVES:

N/A

Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number P-1 Line Item Nomenclature  
 1711 Shipbuilding and Conversion, Navy/BA 02/BLI 332013 VIRGINIA CLASS

Weapon System: VIRGINIA Class Submarine: First System (BY1) Award Date First System (BY1) Completion Date

(\$ in Millions)														
	PLT	When Req'd	Prior Years	PY-1	PY	CY	BY1	BY2	BY3	BY4	BY5	BY6	To Complete	Total
			FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05		
NUCLEAR PROPULSION PLANT EQUIPMENT (1)	30-72	Various	538.2	335.2	168.0	262.1	431.2	429.0	428.0	433.0	433.0	812.0	8832.0	13101.7
ELECTRONICS EQUIPMENT (2)	44	Various	.0	15.4	10.9	21.6	3.0	15.3	12.5	12.9	13.0	13.3	319.2	437.1
NON-NUCLEAR PROPULSION PLANT EQUIPMENT			89.3	74.1	95.8	161.2	131.7	28.5	168.9	178.7	174.6	178.3	4231.7	5512.9
*Heat Exchanger	18	Various	12.4		5.3									17.7
Propulsor (3)	36	Various	.0	.0	14.2	28.7	.0	28.5	31.5	32.2	32.5	33.2	799.8	1000.5
*Main Condensers	66	Various	25.1		7.9									33.0
*Switchboards Elec	18	Various	12.8		8.0									20.8
*Main Propulsion Complex (4)	46	Various	.0	74.1	45.6	132.5	131.7	.0	137.4	146.5	142.2	145.1	3432.0	4387.1
Pumps & Valves	18	Various	39.1		14.8									53.8
LONG LEAD-TIME CFE (5)	24 - 42	Various	.0	34.7	3.0	58.2	45.9	35.4	66.3	77.1	78.6	79.7	1820.5	2299.3
DETAIL DESIGN/DESIGN TRANSFER/SHIPBUILDER INTEGRATION			162.8	316.3									.0	479.1
ADVANCE CONSTRUCTION (6)							127.6						.0	127.6
OTHER (7)							3.8						.0	3.8
TECHNOLOGY INSERTION (8)							3.4						.0	3.4
Total AP			790.3	775.7	277.7	503.2	746.6	508.2	675.7	701.7	699.2	1083.3	15203.3	21964.9

Description:

- (1) **Nuclear Propulsion Plant Equipment AP** is required to fund long lead time propulsion plant equipment which is the longest lead-time equipment in the construction of nuclear attack submarines and ensure production capability to support projected production quantities. To support the VIRGINIA Class innovative and more efficient modular construction method, reactor plant component must be delivered earlier in the construction process than for previous submarine classes. In this regard, the VIRGINIA Class reactor plant will be assembled and tested before being mounted into the hull.
- (2) **Electronics Equipment AP** is required to fund the long lead time material for the Command and Control System Module (CCSM). Because the CCSM will be on critical path to ship delivery and present the most risk to ship construction, selected electronics will be installed in this module to support construction of the CCSM.
- (3) **Propulsor AP** is required to satisfy in-yard need dates for ship delivery.
- (4) **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.
- (5) **Long Lead-Time CFE AP** is required to fund longest lead time contractor furnished material including the Weapons Handling Module and the Reactor Plant Module. Because the Weapons Handling and Reactor Plant Modules will present risk to the ship construction schedule, the components are required early in the construction phase. Funding is required each fiscal year to ensure industrial base continuity which reduces overall production line cost.
- (6) **Advance Construction** is required to ensure industrial base continuity at the shipbuilder in the gap year.
- (7) **Other** is for VIRGINIA Class curriculum development.

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

Exhibit P-10, Advance Procurement Requirements Analysis (Page 2 - Budget Justification)								DATE: February-00	
Appropriation (Treasury)Code/CC/BA/SBA/Item Control Number 1711 Shipbuilding and Conversion, Navy/BA 02/BLI 332013 (TOA, \$ in Millions)						Weapon System: VIRGINIA Class Submarine:		P-1 Line Item Nomenclature VIRGINIA CLASS	
	PLT	QPA	Unit Cost	BY1 Qty* FY00	BY1 Contract Forecast Date	BY1 Total Cost Request	BY2 Qty FY01	BY2 Contract Forecast Date	BY2 Total Cost Request
NUCLEAR PROPULSION PLANT EQUIPMENT (1)	30-72	1 Shipset	431.2	1 Shipset	1st Qtr FY00	431.2	1 Shipset	1st Qtr FY01	429.0
ELECTRONICS EQUIPMENT (2)	44	1 Lot		1 Lot		3.0	1 Lot		15.3
NUCLEAR PROPULSION PLANT EQUIPMENT Propulsor (3)	36	1 Shipset					1 Shipset		28.5
Main Propulsion Complex (4)	46	1 Shipset	131.7			131.7			
LONG LEAD-TIME CFE (5)	24-42	1 Lot	NA	1 Lot	1st Qtr FY00	45.9	1 Lot	1st Qtr FY01	35.4
ADVANCE CONSTRUCTION (6)			NA	1 Lot	1st Qtr FY00	127.6			
OTHER (7)		1 Lot	N/A	1 Lot	1st Qtr FY00	3.8			
TECHNOLOGY INSERTION (8)		1 Lot	N/A	1 Lot	1st Qtr FY00	3.4			
Total AP						746.6			508.2

Description:

- (1) **Nuclear Propulsion Plant Equipment AP** is required to fund long lead time propulsion plant equipment and ensure production capability to support projected production quantities. BY1 AP is required for the FY02 ship; BY2 AP is required for the FY03 ship. To help bridge the gap between FY99 and FY01, nuclear propulsion plant equipment is required in the shipyard as early as possible to allow work to begin as early as possible.
- (2) **Electronics Equipment AP** is required to fund long lead time material for the Command and Control System Module (CCSM). Because the CCSM will be on critical path to ship delivery and present the most risk to ship construction, selected electronics will be installed in this module to support construction of the CCS. BY2 AP is required for the FY02 ship.
- (3) **Propulsor AP** is required to satisfy in-yard need dates for ship delivery. BY2 AP is required for the FY02 ship.
- (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. BY1 AP is required for the FY02 ship.
- (5) **Long Lead-Time CFE AP** is required to fund longest lead time contractor furnished material including the Weapons Handling Module and the Reactor Plant Module. Because the Weapons Handling and Reactor Plant Modules will present risk to the ship construction schedule, the components are required early in the construction phase. Funding is required each fiscal year to ensure industrial base continuity which reduces overall production line cost.
- (6) **Advance Construction** is required to ensure industrial base continuity at the shipbuilder in the gap year.
- (7) **Other** is for VIRGINIA Class curriculum development.
- (8) **Technology Insertion** is required to fund the Caves Wide Aperture Array (WAA) in order to support the FY02 ship schedule.

Exhibit P-10, Advance Procurement Requirements Analysis (Page 3 - Execution) DATE: February-00

Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number 1711 Shipbuilding and Conversion, Navy/BA 02/BLI 33201303 (TOA, \$ in Millions) Weapon System VIRGINIA Class Submarines P-1 Line Item Nomenclature VIRGINIA CLASS

	PLT	PY QTY FY98	PY Contract Forecast Date	PY Actual Contract Date	PY Total Cost Request	PY Actual Contract Cost	CY QTY FY99	CY Contract Forecast Date	CY Actual Contract Date	CY Total Cost Request	CY Actual Contract Cost	BY1 QTY FY00	BY1 Contract Forecast Date	BY2 QTY FY01	BY2 Contract Forecast Date
NUCLEAR PROPULSION PLANT EQUIPMENT	30 - 72	Partial Shipset	Various	1st Qtr FY98	168.0	168.0	Partial Shipset	1st Qtr FY99	1st Qtr FY99	262.1	262.1	1 Shipset	1st Qtr FY00	1 Shipset	1st Qtr FY01
ELECTRONICS EQUIPMENT	44	1 Lot	Various	Various	10.9	10.9	1 Lot	Various	Various	21.6		1 Lot	Various	1 Lot	Various
NON-NUCLEAR PROPULSION PLANT EQUIPMENT					95.8	95.8									
Heat Exchanger	18	1 Shipset	1st Qtr FY98	1st Qtr FY98	5.3	5.3									
Propulsor (1)	36	1 Shipset	1st Qtr FY98	1st Qtr FY99	14.2	14.2	1 Shipset	2st Qtr FY99	1st Qtr FY99	28.7	28.7			1 Shipset	1st Qtr FY01
Main Condensers	66	1 Shipset	1st Qtr FY98	1st Qtr FY98	7.9	7.9									
Switchboards Elec	18	1 Shipset	1st Qtr FY98	1st Qtr FY98	8.0	8.0									
Main Propulsion Complex	46	1 Shipset	1st Qtr FY98	1st Qtr FY98	45.6	45.6	1 Shipset	1st Qtr FY99	1st Qtr FY99	132.5	132.5	1 Shipset	1 Qtr FY00		
Pumps & Valves	18	1 Shipset	1st Qtr FY98	1st Qtr FY98	14.8	14.8									
LONG LEAD-TIME CFE	24-42	1 Lot	1st Qtr FY98	1st Qtr FY98	3.0	3.0	1 Lot	1st Qtr FY99	1st Qtr FY99	58.2	58.2	1 Lot	1 Qtr FY00	1 Lot	1st Qtr FY01
ADVANCE CONSTRUCTION												1 Lot	1 Qtr FY00		
OTHER												1 Lot	Various		
TECHNOLOGY INSERTION												1 Lot	Various		
Total AP					277.7	277.7				503.2					

Description:

(1) Delays in completion of final drawings as a result of substantial technical changes needed for the Propulsor to meet operational requirements resulted in a revised procurement schedu

**BUDGET ITEM JUSTIFICATION SHEET (P-40)  
FY 2001 BUDGET SUBMIT (\$M)**

DATE:  
February-00

APPROPRIATION/BUDGET ACTIVITY						P-1 ITEM NOMENCLATURE		
BA #2 OTHER WARSHIPS						SUBMARINE FORCE STRUCTURE		
Total Funding by Ship	PRIOR YEARS*	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TO COMPLETE	TOTAL PROGRAM
QUANTITY	-	-	-	-	-	-	-	-
End Cost	-	-	198.6	297.7	297.4	297.0	-	1,090.7
Less Advance Procurement	-	-	-	-	-	-	-	-
Full Funding TOA	-	-	198.6	297.7	297.4	297.0	-	1,090.7
Plus Advance Procurement	-	-	-	-	-	-	-	-
Total Obligational Authority	-	-	198.6	297.7	297.4	297.0	-	1,090.7
Unit Cost (Ave. End Cost)	-	-	-	-	-	-	-	-

\* Budget Item did not exist prior to FY 2001

**SSN Force Structure**

The FY 2001 President's Budget establishes a new SCN procurement line for submarine force structure and provides funding in the amount of \$1.1 Billion. This effort includes funding to either continue the design work for the conversion of four OHIO class SSBNs to SSGNs or fund additional outyear SSN 688 refueling overhauls. A decision on proceeding with these submarine force enhancements will be made after the completion of additional studies.

SSN Mission: Nuclear-powered fast attack submarines (SSNs) perform varying missions, including intelligence collection and anti-submarine training in peacetime; and operations against enemy submarines and surface ships, as well as land attack (with cruise missiles), in wartime. The refueling of the reactors and repair and upgrading the main propulsion equipments will provide for reliable operations during the remaining operational life of the submarines.

SSGN Mission: The first four Trident submarines are currently scheduled to be decommissioned in FY 03/04. The opportunity exists to convert these ships from an SSBN to an SSGN configuration. The SSGN configuration will establish a robust, covert, land attack strike and Special Operating Force (SOF) platform fully integrated into a joint battlespace with minimal external support. The platform will enable launch of a large number (>100) of precision-guided, conventional, land attack weapons, such as Tomahawk Land-Attack Missile (TLAM) in a single salvo. The SOF campaign will influence events ashore prior to the commencement of hostilities. SOF platform capabilities will include support for over 60 SOF personnel, two Advanced Seal Delivery Systems (ASDS) or Dry Deck Shelters (DDS), and the facilities and material needed for sustained SOF operations. The platform replaces two dedicated SOF submarines scheduled for inactivation, the USS James K. Polk and USS Kamehameha.

Characteristics:

SSN 688 Class Hulls

Length Overall 360'  
Displacement 6,900 TONS

SSBN 726 Class Hulls

Length Overall 560'  
Displacement 18,750 TONS

<b>BUDGET ITEM JUSTIFICATION SHEET (P-40)</b> <b>FY 2001 PRESIDENT'S BUDGET (\$M)</b>	<b>DATE:</b> <b>February 2000</b>
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APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE									
BA #2 OTHER WARSHIPS	CVN-68 CLASS NUCLEAR REFUELING COMPLEX OVERHAUL									
	PRIOR YEARS	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TO COMPLETE	TOTAL PROGRAM
QUANTITY	1	0	0	0	1	0	0	0	1	3
End Cost	2,175.1	0.0	0.0	0.0	2,175.4	0.0	0.0	0.0	1,185.0	5,535.5
Less Advance Procurement	520.2	0.0	0.0	651.3	0.0	0.0	0.0	559.1	0.0	1,730.6
Full Funding TOA	1,654.9	0.0	0.0	703.4	820.7	0.0	0.0	625.9	1,185.0	3,804.9
Plus Advance Procurement	565.9	260.9	344.7	25.0	73.1	173.6	287.4	0.0	0.0	1,730.6
Total Obligational Authority	2,220.8	260.9	344.7	728.4	893.8	173.6	287.4	625.9	1,185.0	5,535.5
Plus Outfitting and Post Delivery	0.0	23.3	24.4	30.9	31.7	28.4	40.9	10.8	0.0	190.4
Total	2,220.8	284.2	369.1	759.3	925.5	202.0	328.3	636.7	1,185.0	5,725.9
Unit Cost (Ave. End Cost)	2,175.1	*	0.0	0.0	0.0	2,175.4	0.0	0.0	1,185.0	1,845.2

Note: \* Prior Year funding includes a planned Above-Threshold Reprogramming of \$87.5 million for CVN-68.

**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 20 years of ship life using only the normal maintenance cycle.

**Characteristics:**

<b><u>Hull</u></b>		<b><u>Production Status</u></b>		<b><u>FY98</u></b>	<b><u>FY01</u></b>
Length overall	1088'	Contract Plans		1/94	11/97
Beam	134'	Award Planned (Month)		4/98	05/01
Displacement	91,878 TONS	Months to Complete			
Draft	35.8'	a) Award to Delivery		36	31
		b) Construction Start to Delivery		34	31
		Commissioning Date		N/A	N/A
		Completion of Fitting Out		05/01	03/04

**Armament:**

<b>CVN 68:</b>	
Refurb NSSMS	<b><u>Major Electronics:</u></b>
Tactical Support Center	Cooperative Engagement Capability
	C4ISR
	ACDS Block 1 Rehosted
	Naval Warfare Strike Planning Center (NSWPC)
<b>CVN 69:</b>	
Refurb NSSMS	Cooperative Engagement Capability
MK49 GMLS w/HAS	C4ISR
AN/SPQ-9B Radar	Integrated Combat Direction System
Tactical Support Center	Naval Warfare Strike Planning Center (NSWPC)

UNCLASSIFIED

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 FY 2001 President's Budget  
 February 2000

**APPROPRIATION: SHIPBUILDING AND  
 CONVERSION, NAVY**

**WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)**

SUBHEAD 8212/2218/2212/6212

BUDGET ACTIVITY: 2  
 OTHER WARSHIPS

P-1 ITEM NOMENCLATURE: CVN R/COH  
 AIRCRAFT CARRIER

ELEMENT OF COST	QTY	FY 1998	FY2001	FY2002
		CVN 68 TOTAL COST	CVN 69 COST	CVN 69 COST
PLAN COSTS		28,660	21,634	0
BASIC CONST/CONVERSION		1,814,333	931,631	820,681
OTHER COST		50,950	52,016	0
PROPULSION EQUIPMENT		67,582	63,595	0
HM&E		31,487	32,836	0
ELECTRONICS		121,469	165,000	0
ORDNANCE		60,629	87,983	0
<b>TOTAL SHIP ESTIMATE</b>	<b>1</b>	<b>2,175,110 <sup>(a)</sup></b>	<b>1,354,695 *</b>	<b>820,681</b>
LESS: ADVANCE PROCUREMENT FY93		6,800	0	0
LESS: ADVANCE PROCUREMENT FY94		31,127	0	0
LESS: ADVANCE PROCUREMENT FY95		38,059	0	0
LESS: ADVANCE PROCUREMENT FY96		213,903	0	0
LESS: ADVANCE PROCUREMENT FY97		230,341	0	0
LESS: ADVANCE PROCUREMENT FY98		0	45,670	0
LESS: ADVANCE PROCUREMENT FY99		0	260,911	0
LESS: ADVANCE PROCUREMENT FY00		0	344,673	0
LESS: ADVANCE PROCUREMENT FY01				
LESS: DD 1415 REPROGRAMMING		87,500		
NET P-1 LINE ITEM: FY98 Full Funding		1,567,380		
FY01 Full Funding			703,441	
FY02 Full Funding				1 820,681

\* CVN-69's RCOH is split funded into two phases. Phase I is fully funded in FY 2001. Phase II is fully funded in FY 2002.

(a) Funding reflects planned DD 1415 reprogramming for CVN-68.



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FY 2001 President's Budget

February 2000

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

SHIP TYPE	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
CVN 68 R/COH	NEWPORT NEWS SHIPBUILDING	FY 1998	Apr-98	May-98	Mar-01
CVN 69 R/COH	NEWPORT NEWS SHIPBUILDING	FY 2001	May-01	May-01	Jan-04

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February 2000

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

<b>Ship Type: CVN RCOH CLASS NUCLEAR AIRCRAFT CARRIER</b>	( 1 )	( 1 )
	FY 98	FY 01/02
	<u>TOT COST</u>	<u>TOT COST</u>
<b>OTHER</b>		
<b>b. Major Items</b>		
Berthing	1 25,200	1 25,560
Engr Spt (NAVSSSES, PERA, NNS)	1 18,191	1 18,469
ILS Spt	1 4,883	1 5,147
Management Spt	1 2,450	1 2,600
<b>c. Miscellaneous Other Spt</b>	<u>226</u>	<u>240</u>
<b>TOTAL OTHER</b>	50,950	52,016

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

<b>Ship Type: CVN RCOH CLASS NUCLEAR AIRCRAFT CARRIER</b>	( 1 )	( 1 )
	FY 98	FY 01/02
	<u>TOT COST</u>	<u>TOT COST</u>
<b>ELECTRICAL EQUIPMENT</b>		
<b>a. P-35 Items</b>		
1. C4ISR (includes SSES)	1 36,683	1 57,281
2. Naval Strike Warfare Plng Ctr (NSWPC - Formerly CVIC)	1 37,755	1 24,348
3. Advanced Combat Direction System (ACDS)	1 19,725	1 0
4. SSDS MK2 (Formerly ICDS)	1 OPN Funds	1 42,017
5. Cooperative Engagement Capability (CEC - AN/USG-2)	1 10,580	1 12,504
6. AN/SPN46 Overhaul	1 585	1 5,058
Subtotal	<u>105,328</u>	<u>141,208</u>
<b>b. Major Items</b>		
1. Doppler Sonar Velocity Log	1 1,037	1 874
2. Battle Force Tactical Training System (BFTT)	1 1,310	1 1,395
3. Stimulators Simulators (S2)	1 0	1 2,000
4. ES (AN/SLQ-20B)	1 2,905	1 0
5. Inertial Navigation System (RLGN)	1 See HM&E	1 3,483
6. LSO Improved Comm Station (LICS)	1 0	1 1,218
7. IFF Interrogator Set (AN/UPX-29)	1 4,596	1 4,895
8. AN/TPX-42 (CATCC)	1 1,564	1 3,455
Subtotal	<u>11,412</u>	<u>17,320</u>
<b>c. Miscellaneous Electronics</b>	4,729	6,472
<b>TOTAL ELECTRONICS</b>	<u>121,469</u>	<u>165,000</u>

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FY 2001 President's Budget  
February 2000

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

Ship Type: CVN RCOH CLASS NUCLEAR AIRCRAFT CARRIER	( 1 ) FY 98 <u>TOT COST</u>	( 1 ) FY 01/02 <u>TOT COST</u>
<b>HULL, MECHANICAL &amp; ELECTRICAL</b>		
<b>a. P-35 Items</b>	0	0
<b>b. Major Items</b>		
1. Plastic Processor	1     1,079	1     0
2. Large Solid Waste Pulper	1     511	1     0
3. AC Plant #10	1     0	1    1,158
4. Conv R114 AC Plts	1     0	1    2,793
5. Inertial Navigation System (RLGN)	1    3,495	1    See Electronics
5. Circuit 27TV	1 <u>0</u>	1 <u>1,045</u>
Subtotal	5,085	4,996
<b>c. Miscellaneous Hull, Mechanical &amp; Electrical</b>		
1. HM&E Test & Inspection	1     1,445	1     1,895
2. HM&E Engr Svcs	1    9,084	1   10,095
3. SUPSHIP Matl/Svcs	1   15,348	1   14,747
4. HM&E Misc Equip	1 <u>525</u>	1 <u>1,103</u>
Subtotal	26,402	27,840
<b>TOTAL HULL, MECHANICAL &amp; ELECTRICAL</b>	<b>31,487</b>	<b>32,836</b>

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

**Ship Type: CVN RCOH NUCLEAR AIRCRAFT CARRIER**

	( 1 )	( 1 )		
	FY 98	FY 01/02		
	<u>TOT COST</u>	<u>TOT COST</u>		
<b>ORDNANCE</b>				
<b>a. P-35 Items</b>				
1. Rearch NATO Seasparrow	1 22,667	1 23,930		
2. MK49 GLMS w/HAS (formerly RAM)	2 OPN Funds 17,407	2 17,407		
3. AN/SPQ-9B Radar	1 OPN Funds 6,652	1 6,652		
4. Tactical Support Center (CV-TSC)	1 <u>9,601</u>	1 <u>8,156</u>		
Subtotal	32,268	56,145		
<b>b. Major Items</b>				
1. USW/SUW Warfare Commander Cell	1 0	1 2,160		
2. AN/SPS-73 Radar	1 0	1 575		
3. AN/SPS-48E Radar Set Upgrades	1 3,845	1 500		
4. Advanced Sensor Distribution System (ASDS)	1 1,218	1 2,082		
5. AN/SPS-49 Air Search Radar Set Upgrades	1 3,896	1 3,759		
6. Aviation Equipment & Support	1 9,236	1 9,620		
7. MK7 MOD3 Arresting Gear	1 4,933	1 6,915		
8. ISIS/ADMACS	1 <u>1,988</u>	1 <u>2,118</u>		
Subtotal	<u>25,116</u>	<u>27,729</u>		
<b>c. Miscellaneous Ordnance</b>	<u>3,245</u>	<u>4,109</u>		
<b>TOTAL ORDNANCE</b>	<b>60,629</b>	<b>87,983</b>		

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

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**Ship Type: CVN 68 CL RCOH  
Equipment Line: C4ISR  
Parm Code - SPAWAR 05F**

**I. DESCRIPTION/CHARACTERISTICS/PURPOSE:** Provides an integrated communications infrastructure to support both tactical and non-tactical applications in all warfare and support areas, an improved shipboard RF distribution system and multiband antennas, and capabilities for the control and monitoring of RF assets introducing network automation and provide interoperable communications for joint operations. It will interconnect forces of the Battle Group/Amphibious Readiness Group 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	<u>FY 1998</u>	<u>FY 2001/2002</u>
1. MAJOR HARDWARE	20,413	27,712
2. Management Support	155	251
3. Spares	1,194	3,318
4. Engineering Services	<u>14,921</u>	<u>26,000</u>
TOTAL	36,683	57,281

**III. CONTRACT DATA:**

<u>PROGRAM</u>	<u>PRIME</u>	<u>CONTRACT</u>	<u>NEW CONTRACT</u>	<u>HARDWARE</u>	<u>AWARD</u>		
<u>YEAR</u>	<u>SHIPTYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>OPTION</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>DATE</u>
FY 98	CVN RCOH	Various	Various	Various	1	20,413	Various
FY 01	CVN RCOH	Various	Various	Various	1	27,712	Various

**IV. DELIVERY DATE:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE SHIP DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
31-Mar-01	24	Various	Various
31-Jul-03	24	Various	Various

**V. Competition/Second Source Initiatives**

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

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**Ship Type: CVN 68 CL RCOH**  
**Equipment Line: Naval Strike Warfare Planning Center (NSWPC/CVIC)**  
**Parm Code - NAVAIR PMA 281**

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

**II. CURRENT FUNDING:**

P-35 Category	<u>FY 1998</u>	<u>FY 2001/2002</u>
1. MAJOR HARDWARE	14,940	14,844
2. Management Support	2,340	1,689
3. Spares	1,845	718
4. Engineering Services	18,630	7,097
TOTAL	37,755	24,348

**III. CONTRACT DATA:**

<u>PROGRAM</u>	<u>PRIME</u>	<u>CONTRACT</u>	<u>NEW CONTRACT/</u>		<u>HARDWARE</u>	<u>AWARD</u>	
<u>YEAR</u>	<u>SHIPTYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>OPTION</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>DATE</u>
FY 98	CVN RCOH	Various	FFP/COTS	Option	1	14,940	Various
FY 01	CVN RCOH	Various	FFP/COTS	Option	1	14,844	Various

**IV. DELIVERY DATE:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE SHIP DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
30-Mar-01	24	Various	Jun-98
31-Jul-03	24	Various	Oct-00

**V. Competition/Second Source Initiatives**

**SHIPBUILDING AND CONVERSION, NAVY  
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**Ship Type - CVN 68 CL RCOH  
Equipment Item: Advanced Combat Direction System (ACDS)  
PARM Code - PEO TAD SC**

**I. DESCRIPTION/CHARACTERISTICS/PURPOSE:** The ACDS Block 1 Color Upgrade for the CVN 68 will replace the present MIL-SPEC computers and displays (AN/UYK-43; AN/UYQ-21) with an open-architecture, COTS system utilizing AN/UYK-70 Advanced Display System workstations (VME-based) and VME-based equipment racks. With this upgrade, the CVN 68 will receive the ACDS Block 1 functional improvements including the JTIDS/Link 16 interface (TADIL J); modifiable doctrine; increased range/track capacity; multi-source identification; DMA based maps and embedded training capability. The new system includes color workstations and color large screen displays, and the operational software will be rehosted into a COTS processor instead of the AN/UYK-43. The system will provide interconnectivity on a fiber optic LAN to other elements of the combat system.

**II. CURRENT FUNDING:**

<u>P-35 Category</u>		<u>FY 1998</u>
1. Major Hardware		9,903
2. Management Support		518
3. Spares		646
4. Engineering Support		<u>8,658</u>
	TOTAL	<u>19,725</u>

**III. CONTRACT DATA**

PROGRAM	PRIME	CONTRACT	NEW CONTRACT	HARDWARE	AWARD	
<u>YEAR</u>	<u>SHIP TYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>QTY</u>	<u>UNIT COST</u>	
FY 98	CVN RCOH	Raytheon	CPAF	New	1 9,903	Aug-97

**IV. DELIVERY DATA:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE SHIP DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
30-Mar-01	24	24	Mar-97

**V. Competition/Second Source Initiatives**

Competitive procurement will be initiated for display consoles and other selected peripheral equipment.

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**Ship Type - CVN 68 CL RCOH**  
**Equipment Item: Ship Self Defense System (MK2) (Previously ICDS)**  
**PARM Code - PEO TAD SC**

**I. DESCRIPTION/CHARACTERISTICS/PURPOSE:** ICDS provides primary support for force/ownshp combat systems control and enhanced self-defense capabilities. The ICDS integrates sensors, weapons systems, data links, and command and control elements into a unified combat system.

**II. CURRENT FUNDING:**

<u>P-35 Category</u>	<u>FY 2001/2002</u>
1. Major Hardware	21,169
2. Management Support	874
3. Spares	3,175
4. Engineering Support	<u>16,799</u>
 TOTAL	 42,017

**III. CONTRACT DATA**

<u>PROGRAM</u>	<u>PRIME</u>	<u>CONTRACT</u>	<u>NEW</u>	<u>CONTRACT</u>	<u>HARDWARE</u>	<u>AWARD</u>	
<u>YEAR</u>	<u>SHIP TYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>/OPTION</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>DATE</u>
FY 01	CVN RCOH	Raytheon	CPAF	New	1	21,169	Jan 99

**IV. DELIVERY DATA:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE SHIP DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
31-Jul-03	24	24	Jul-99

**V. Competition/Second Source Initiatives**

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**Ship Type: CVN 68 CL RCOH**  
**Equipment Line: Cooperative Engagement Capability (CEC)**  
**Parm Code - PEO TAD SC**

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

**II. CURRENT FUNDING:**

<u>P-35 Category</u>	<u>FY 1998</u>	<u>FY 2001/2002</u>
1. Major Hardware	4,799	6,575
2. Management Support	680	323
3. Spares	960	1,123
4. Engineering Services	4,141	4,483
TOTAL	<u>10,580</u>	<u>12,504</u>

**III. CONTRACT DATA:**

<u>PROGRAM</u>	<u>PRIME</u>	<u>CONTRACT</u>	<u>NEW CONTRACT</u>	<u>HARDWARE</u>	<u>AWARD</u>		
<u>YEAR</u>	<u>SHIPTYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>OPTION</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>DATE</u>
FY98	CVN RCOH	E-Systems	CPIF	New	1	4,799	Apr 98
FY01	CVN RCOH	E-Systems	CPIF	New	1	6,575	Jan-99

**IV. DELIVERY DATA:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE SHIP DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
30-Mar-01	24	18	Sep-97
31-Jul-03	24	18	Jan-99

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

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**Ship Type: CVN 68 CL RCOH**  
**Equipment Line: Automated Carrier Landing Systems (ACLS) (AN/SPN-46(V)3)**  
**Parm Code - NAVAIR PMA213**

**I. DESCRIPTION/CHARACTERISTICS/PURPOSE:** Precision landing system used for non-clear weather aircraft landings on carriers.

**II. CURRENT FUNDING:**

<u>P-35 Category</u>	<u>FY 1998</u>	<u>FY 2001/2002</u>
1. Major Hardware	430	3,066
2. Spares	130	255
3. Engineering Services	25	1,737
TOTAL	<u>585</u>	<u>5,058</u>

**III. CONTRACT DATA:**

<u>PROGRAM</u>	<u>PRIME</u>	<u>CONTRACT</u>	<u>NEW CONTRACT</u>	<u>HARDWARE</u>	<u>AWARD</u>		
<u>YEAR</u>	<u>SHIPTYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>OPTION</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>DATE</u>
FY98	CVN RCOH	Marconi	CPFF	Option	1	430	Oct-98
FY01	CVN RCOH	SNC	CPFF	New	1	3,066	Jul-99

**IV. DELIVERY DATA:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE SHIP DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
30-Mar-01	24	12	Mar-98
31-Jul-03	24	12	Jul-00

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

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**Ship Type: CVN 68 RCOH**  
**Equipment Line: REARCHITECTURED NATO SEASPARROW**  
**Parm Code - PEO EXW (PMS471)**

**I. DESCRIPTION/CHARACTERISTICS/PURPOSE:** The Rearch NATO SEASPARROW 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	<u>FY 1998</u>	<u>FY 2001/2002</u>
1. Major Hardware	13,375	13,435
2. Management Support	677	1,705
3. Spares	960	1,032
4. Engineering Services	<u>7,655</u>	<u>7,758</u>
<b>TOTAL</b>	<b>22,667</b>	<b>23,930</b>

**III. CONTRACT DATA:**

PROGRAM	PRIME	CONTRACT	HARDWARE	CONTRACT		
<u>YEAR</u>	<u>SHIP TYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>QUANTITY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>
FY 98	CVN RCOH	Raytheon	FFP	1	13,375	Nov 98*/Sept 99**
FY 01	CVN RCOH	Raytheon	FFP	1	13,435	Dec 98*/Sept 99**

\*Research award; \*\* Transmitter award

**IV. DELIVERY DATA:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>
30-Mar-01	24	18	Oct-97
31-Jul-03	24	18	Jan-00

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**Ship Type:** CVN 68 CL RCOH  
**Equipment Line:** MK49 GMLS w/HAS (formerly RAM)  
**Parm Code -** PEO EXW PMS472

**I. DESCRIPTION/CHARACTERISTICS/PURPOSE:** The RAM Guided Missile Weapon System is a short-range, fast-reaction, high firepower, lightweight, missile weapon system designed to engage and destroy incoming anti-ship cruise missiles that use active radar guidance.

**II. CURRENT FUNDING:**

P-35 Category	<u>FY 2001/2002</u>
1. Major Hardware	13,994
2. Management Support	216
3. Spares	210
4. Engineering Support	<u>2,987</u>
TOTAL	17,407

**III. CONTRACT DATA:**

<u>PROGRAM</u>	<u>PRIME</u>	<u>CONTRAC</u>	<u>NEW CONTRACT</u>		<u>HARDWARE</u>	<u>AWARD</u>	
<u>YEAR</u>	<u>SHIPTYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>OPTION</u>	<u>UNIT COST</u>	<u>DATE</u>	
FY 01	CVN RCOH	Raytheon	FFP	New	2	6,997	Nov-99

**IV. DELIVERY DATE:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE SHIP DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
31-Jul-03	18	24	Feb-00

**V. Competition/Second Source Initiatives**

**SHIPBUILDING AND CONVERSION, NAVY  
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(\$000)**

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**Ship Type: CVN 68CL RCOH**  
**Equipment Line: AN/SPQ-9B Radar Set**  
**Parm Code - PEO EXW (D23)**

**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	<u>FY 2001/2002</u>
1. Major Hardware	4,740
2. Management Support	175
3. Spares	800
4. Engineering Support	937
TOTAL	<u>6,652</u>

**III. CONTRACT DATA:**

<u>PROGRAM</u>	<u>PRIME</u>	<u>CONTRACT</u>	<u>NEW CONTRACT</u>		<u>HARDWARE</u>	<u>AWARD</u>	
<u>YEAR</u>	<u>SHIPTYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>OPTION</u>	<u>UNIT COST</u>	<u>DATE</u>	
				<u>QTY</u>			
FY 01	CVN RCOH	Norden	FFP	New	1	4,740	Dec-99

**IV. DELIVERY DATE:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE SHIP DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
31-Jul-03	24	14	May-00

**V. Competition/Second Source Initiatives**

**SHIPBUILDING AND CONVERSION, NAVY  
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(\$000)**

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**Ship Type: CVN 68 CL RCOH**  
**Equipment Line: Aircraft Carrier Based Tactical Support Center (CV-TSC)**  
**Parm Code - PEO USW (PMS411)**

**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	<u>FY 1998</u>	<u>FY 2001/2002</u>
1. MAJOR HARDWARE	1,494	2,914
2. Spares	195	217
3. Engineering spt	7,912	5,025
TOTAL	9,601	8,156

**III. CONTRACT DATA:**

<u>PROGRAM</u>	<u>PRIME</u>	<u>CONTRACT</u>	<u>NEW CONTRACT/</u>		<u>HARDWARE</u>	<u>AWARD</u>	
<u>YEAR</u>	<u>SHIPTYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>OPTION</u>	<u>UNIT COST</u>	<u>DATE</u>	
FY 98	CVN RCOH	NUWC Keyport	FFP	New	1	1,494	Apr-96
FY 01	CVN RCOH	NUWC Keyport	FFP/CPIF	New	1	2,914	Jan-99

**IV. DELIVERY DATE:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE SHIP DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
30-Mar-01	24	24	Mar-97
31-Jul-03	16	36	Mar-99

**V. Competition/Second Source Initiatives**

Exhibit P-10, Advance Procurement Requirements Analysis (Page 1 - Funding)								Date: <b>February 2000</b>					
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number <b>BA #2 OTHER WARSHIPS</b>								P-1 Line Item Nomenclature <b>CVN REFUELING (RCOH)</b>					
Weapon System <b>CVN 69 Refueling</b>				First System (BY1) Award Date <b>May 01</b>				First System (BY1) Completion Date <b>Jan 04</b>					
(\$ in Millions)													
	PLT	When Req'd	Prior Years	PY FY99	CY FY00	BY1 FY01	BY2 FY02	BY3 FY03	BY4 FY04	BY5 FY05	BY6 FY06	To Complete	Total
End Item Qty								1					
Plans (Detailed)			3.7	6.7	11.2								21.6
Basic			17.7	169.9	218.3								405.9
Other Engineer			0.8	4.3	4.0								9.1
Nuc Prop Equip			22.3	8.3	8.5								39.1
HM&E			1.2	1.8	3.8								6.8
Electronics			0.0	53.2	62.1								115.3
Ordnance/Air			0.0	16.7	36.8								53.5
<b>Total AP</b>			45.7	260.9	344.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	651.3
Description:													

Exhibit P-10, Advance Procurement Requirements Analysis (Page 2 - Budget Justification)							Date: <b>February 2000</b>		
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number <b>BA #2 OTHER WARSHIPS</b>					Weapon System <b>CVN 69 Refueling</b>		P-1 Line Item Nomenclature <b>CVN REFUELING (RCOH)</b>		
(TOA, \$ in Millions)									
	PLT	QPA	Unit Cost	FY00 Qty	FY00 Contract Forecast Date	FY00 Total Cost Request	FY01 Qty	FY01 Contract Forecast Date	FY01 Total Cost Request
End Item		N/A					NA	NA	N/A
Plans (Detailed)	various	note 1	21.6			11.2			
Basic	various	note 1	405.9			218.3			
Other Engineer	various	note 1	9.1			4.0			
Nuc Prop Equip	various	note 1	39.1			8.5			
HM&E	various	note 1	6.8			3.8			
Electronics	various	note 1	115.3			62.1			
Ordnance/Air	various	note 1	53.5			36.8			
<b>Total AP</b>			651.3			344.7			
<p><b>Note 1: QPA is one ship set</b>  <b>Unit cost is Total A/P funding</b></p>									

Exhibit P-10, Advance Procurement Requirements Analysis (Page 1 - Funding)							Date: <b>February 2000</b>						
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number <b>BA #2 OTHER WARSHIPS</b>							P-1 Line Item Nomenclature <b>CVN REFUELING (RCOH)</b>						
Weapon System <b>CVN 70 Refueling</b>				First System (BY1) Award Date <b>Nov 04</b>			First System (BY1) Completion Date <b>Jul 07</b>						
(\$ in Millions)													
	PLT	When Req'd	Prior Years	PY-1 FY 98	CY FY99	BY1 FY00	BY2 FY01	BY3 FY02	BY4 FY03	BY5 FY04	BY6 FY05	To Complete	Total
End Item Qty													
Plans (Detailed)							15.5	7.0	8.0	9.0			39.5
Basic							9.5	35.0	64.2	152.9			261.6
Other Engineer							0.0	3.5	3.5	5.0			12.0
Nuc Prop Equip							0.0	25.0	8.0	17.0			50.0
HM&E							0.0	2.6	3.0	4.5			10.1
Electronics							0.0	0.0	62.8	65.0			127.8
Ordnance/Air							0.0	0.0	24.1	34.0			58.1
Total AP			0.0	0.0	0.0	0.0	25.0	73.1	173.6	287.4			559.1
Description:													

Exhibit P-10, Advance Procurement Requirements Analysis (Page 2 - Budget Justification)							Date: <b>February 2000</b>		
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number <b>BA #2 OTHER WARSHIPS</b>					Weapon System <b>CVN 70 Refueling</b>		P-1 Line Item Nomenclature <b>CVN REFUELING (RCOH)</b>		
(TOA, \$ in Millions)									
	PLT	QPA	Unit Cost	FY00 Qty	FY00 Contract Forecast Date	FY00 Total Cost Request	FY01 Qty	FY01 Contract Forecast Date	FY00 Total Cost Request
End Item						N/A			N/A
Plans (Detailed)	various	Note 1	39.5				15.5		0.0
Basic	various	Note 1	261.6				9.5	Jan-01	0.0
Other Engineer	various	Note 1	12.0				0		0.0
Nuc Prop Equip	various	Note 1	50.0				0		0.0
HM&E	various	Note 1	10.1				0		0.0
Electronics	various	Note 1	127.8				0		0.0
Ordnance/Air	various	Note 1	58.1				0		0.0
Total AP			559.1				25		
<b>CVN 70 A/P Funding begins in FY01</b> <b>Note 1: QPA is one shipset</b>									

CLASSIFICATION; UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET (P-40) FY 2001 BUDGET SUBMIT (\$M)									DATE: February-00	
APPROPRIATION/BUDGET ACTIVITY BA #2 OTHER WARSHIPS					P-1 ITEM NOMENCLATURE SUBMARINE REFUELING OVERHAUL					
	PRIOR YEARS*	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TO COMPLETE	TOTAL PROGRAM
QUANTITY				1	1	2	1	2	2	9
End Cost	-	-	-	210.4	245.2	480.3	247.4	477.2	520.0	2,180.5
Less Advance Procurement	-	-	-	-	48.4	51.2	23.1	68.4	97.4	288.5
Full Funding TOA	-	-	-	210.4	196.8	429.1	224.2	408.8	422.6	1,891.9
Plus Advance Procurement	-	-	-	72.3	36.7	27.5	62.8	37.6	51.7	288.6
Total Obligational Authority	-	-	-	282.7	233.5	456.6	287.0	446.4	474.2	2,180.4
Unit Cost (Ave. End Cost)	-	-	-	210.4	245.2	240.2	247.4	238.6	260.0	242.3

Note: \* FY00 and prior year Refueling Overhauls were funded in the OMN appropriation.

The Submarine Refueling Overhaul budget item is a new SCN line with funding initiating in FY2001. This program reflects the migration of submarine refueling overhauls from the Operations and Maintenance appropriation to the Shipbuilding and Conversion, Navy appropriation. Recognizing the overall complexity and availability for significant modernization improvements, the refueling of these ships represents an investment vice a periodic maintenance effort and as such, funding was realigned starting FY 2001. This change in funding strategy is in line with previous decisions, with respect to the refueling of nuclear powered aircraft carriers, and will allow the Navy to significantly enhance both capability and useful operational life through the insertion of the latest technology improvements and the application of the newer D2W reactor cores. This significant investment in a submarine's life will increase its scope of performance for the remainder of its active duty service to the Navy.

SSN MISSION: Nuclear-powered fast attack submarines (SSNs) perform varying missions, including intelligence collection and anti-submarine training in peacetime; and operations against enemy submarines and surface ships, as well as land attack (with cruise missiles), in wartime. The refueling of the reactors and repair and upgrading the main propulsion equipments will provide for reliable operations during the remaining operational life of the submarines.

SSBN MISSION: Nuclear-powered strategic missile submarines (SSBNs) conduct "deterrent patrols" to provide immediate retaliation for an enemy first strike, thus deterring the enemy's first strike option. The refueling of the reactors and repair and upgrading the main propulsion equipments will provide for reliable operations during the remaining operational life of the submarines.

		SSN 706		SSBN 730	
<u>Characteristics:</u>		<u>FY01</u>		<u>FY05</u>	
Production Status		Feb-00		May-02	
Contract Plans		Feb-00		May-02	
<u>SSN 688 Class Hulls</u>		<u>SSBN 726 Class Hulls</u>			
Length Overall	360'	Award Planned (Month)	Feb-00	Award Planned (Month)	May-02
Displacement	6,900 TONS	Months to Complete		Months to Complete	
		a) Award to Delivery	44	a) Award to Delivery	44
		b) Project Start to Delivery	24	b) Project Start to Delivery	24
		Commissioning Date	N/A	Commissioning Date	N/A
		Completion of Fitting Out	Jul-03	Completion of Fitting Out	Jan-06
				18,750 TONS	

UNCLASSIFIED

P-5  
FY 2001/PRESIDENT BUDGET  
Budget estimates  
Feb-00

APPROPRIATION: SHIPBUILDING AND  
CONVERSION, NAVY

BUDGET ACTIVITY : 2  
Other Warships

P-1 ITEM NOMENCLATURE: SUBMARINE REFUELING OVERHAUL

ELEMENT OF COST	QTY	FY01 TOTAL COST
PLAN COSTS		19,463
BASIC CONST/CONVERSION		151,368
CHANGE ORDERS		5,231
ELECTRONICS		8,805
PROPULSION EQUIPMENT		9,646
HM&E		13,916
OTHER COSTS		1,200
ORDNANCE		785
TOTAL SHIP ESTIMATE	1	210,414
NET P-1 LINE ITEM		210,414

Note: FY00 and prior year Refueling Overhaul funding was not in the SCN appropriation.

Note: Ship modifications and TYCOM work outside the initial scope of the refueling overhaul will be funded by other appropriations (O&MN, OPN, etc.)

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

P-27  
FY2001 PRESIDENT BUDGET  
Budget Estimates  
February-00

SHIP TYPE	INDUSTRIAL ACTIVITY	FISCAL YEAR AUTHORIZED	AWARD OF PROJECT	START OF PROJECT	DELIVERY DATE
SSN 706 ERO	PORTSMOUTH NAVAL SHIPYARD	FY 2001	Feb-00	Jul-01	Jul-03
SSN 707 ERO	PUGET SOUND NAVAL SHIPYARD	FY 2002	Feb-00	Oct-01	Sep-03
SSN 699 ERO	NORFOLK NAVAL SHIPYARD	FY 2003	May-01	Jan-03	Jan-05
SSN 713 ERO	PORTSMOUTH NAVAL SHIPYARD	FY 2003	Feb-01	Oct-02	Sep-04
SSN 709 ERO	PORTSMOUTH NAVAL SHIPYARD	FY 2004	Aug-02	Apr-04	Jun-06
SSN 716 ERO	NORFOLK NAVAL SHIPYARD	FY 2005	Sep-03	May-05	May-07
SSBN 730 ERO	PUGET SOUND NAVAL SHIPYARD	FY 2005	May-02	Jan-04	Jan-06
SSBN 731 ERO	PUGET SOUND NAVAL SHIPYARD	FY 2006	Feb-04	Oct-05	Oct-07
SSBN 732 ERO	NORFOLK NAVAL SHIPYARD	FY 2007	Feb-05	Oct-06	Oct-08

[Note: FY00 and prior year Refueling Overhaul funding was not in the SCN appropriation.

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**SHIPBUILDING AND CONVERSION, NAVY**  
**Analysis of Ship Cost Estimates - Basic Escalation**  
**Ship Type: Submarine Refueling Overhaul**

P-8B  
FY2001 PRESIDENT BUDGET  
Budget Estimates  
Feb-00

I. Design Schedule

Not Applicable to Refueling Overhauls

Issue Date for TLR  
Issue Date for TLS  
Preliminary Design  
Contract Design  
Request for Proposals  
Design Agent

II. Classification of Cost Estimate

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

III. Basic Construction/Conversion

	<u>SSN 706</u>	<u>SSN 707</u>	<u>SSN 699</u>	<u>SSN 713</u>	<u>SSN 709</u>	<u>SSN 716</u>	<u>SSBN 730</u>	<u>SSBN 731</u>	<u>SSBN 732</u>
A. Assumed Award Date	Feb-00	Feb-00	May-01	Feb-01	Aug-02	Sep-03	May-02	Feb-04	Feb-05
B. Contract Type (and Share Line if applicable)	FFP	FFP	FFP						

IV. Escalation

Not Applicable to Refueling Overhauls

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

V. Other Basic (Reserves/Miscellaneous)

Amount

None

|Note: FY00 and prior year Refueling Overhaul funding was not in the SCN appropriation.

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

Ship Type: Submarine Refueling Overhaul

( 1 )  
FY 01  
TOT COST

**OTHER**

**b. Major Items**

Subtotal

-

**c. Miscellaneous Other Support**

1,200

**TOTAL OTHER**

**1,200**

Note: FY00 and prior year Refueling Overhaul funding was not in the SCN appropriation.

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

Ship Type: Submarine Refueling Overhaul

( 1 )  
 FY 01  
TOT COST

**ELECTRICAL EQUIPMENT**

**a. P-35 Items**

Subtotal

\_\_\_\_\_

-

**b. Major Items**

Subtotal

\_\_\_\_\_

-

**c. Miscellaneous Electronics**

\_\_\_\_\_

8,805

**TOTAL ELECTRONICS**

**8,805**

|Note: FY00 and prior year Refueling Overhaul funding was not in the SCN appropriation.

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

<b>Ship Type: Submarine Refueling Overhaul</b>	<b>( 1 )</b>
	<b>FY 01</b>
	<b><u>TOT COST</u></b>
<b>HULL, MECHANICAL &amp; ELECTRICAL</b>	
<b>a. P-35 Items</b>	
Subtotal	<b><u>          -</u></b>
<b>b. Major Items</b>	
Subtotal	<b><u>          -</u></b>
<b>c. Miscellaneous Hull, Mechanical &amp; Electrical</b>	<b><u>      13,916</u></b>
<b>TOTAL HULL, MECHANICAL &amp; ELECTRICAL</b>	<b>      13,916</b>

|Note: FY00 and prior year Refueling Overhaul funding was not in the SCN appropriation.

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

Ship Type: Submarine Refueling Overhaul

( 1 )  
FY 01  
TOT COST

**ORDNANCE**

**a. P-35 Items**

Subtotal

                    -

**b. Major Items**

Subtotal

                    -

**c. Miscellaneous Ordnance**

                    785

**TOTAL ORDNANCE**

**785**

|Note: FY00 and prior year Refueling Overhaul funding was not in the SCN appropriation.

Exhibit P-10, Advance Procurement Requirements Analysis (Page 1 - Funding)													Date: Feb-00	
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number 1711 Shipbuilding and Conversion, Navy/BA 02/BLI 211100													P-1 Line Item Nomenclature SUBMARINE REFUELINGS	
Weapon System Submarine Refueling Overhauls (ERO)						First System (BY1) Award Date			First System (BY1) Completion Date					
(\$ in Millions)														
	PLT	When Req'd	Prior Years	PY-1 FY96	PY FY97	CY FY98	BY1 FY99	BY2 FY00	BY3 FY01	BY4 FY02	BY5 FY03	BY6 FY04	Complete FY05	To Total
PLANS (1)		Various						50.1	18.2	15.5	40.6	18.5		142.9
ELECTRONICS (2)		Various						10.3	8.1	5.5	9.4	8.4		41.7
HM&E (3)		Various						11.9	10.4	6.5	12.8	10.7		52.3
TOTAL AP			-	-	-	-	-	72.3	36.7	27.5	62.8	37.6	-	236.9
<p>(1) <b>PLANS AP</b> consists of developing work packages and general engineering design for submarine maintenance, repair, and refueling.</p> <p>(2) <b>ELECTRONICS AP</b> is required to fund the long lead time material for refurbishment of major electronic shipboard systems/components.</p> <p>(3) <b>HM&amp;E AP</b> is required to fund the long lead time material for refurbishment of HM&amp;E equipment, piping, etc.</p>														
Item #8							Page 1 of 4							

Exhibit P-10, Advance Procurement Requirements Analysis (Page 2 - Budget Justification)											Date: <b>February 2000</b>	
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number 1711 Shipbuilding and Conversion, Navy/BA 02/BLI 211100						Weapon System Submarine Refueling Overhauls (ERO)				P-1 Line Item Nomenclature SUBMARINE REFUELINGS		
(TOA, \$ in Millions)												
	PLT	QPA	Unit Cost	FY 98 Qty*	FY 98 Contract Forecast Date	FY 98 Total Cost Request	FY 99 Qty*	FY 99 Contract Forecast Date	FY 99 Total Cost Request	FY 00 Qty*	FY 00 Contract Forecast Date	FY 00 Total Cost Request
End Item												
Plans			142.86									
Electronics			41.70									
HM&E			52.30									
Total AP			236.86			0.00			0.00			0.00

Exhibit P-10, Advance Procurement Requirements Analysis (Page 2 - Budget Justification)											Date: <b>February 2000</b>	
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number 1711 Shipbuilding and Conversion, Navy/BA 02/BLI 211100						Weapon System Submarine Refueling Overhauls (ERO)				P-1 Line Item Nomenclature SUBMARINE REFUELINGS		
(TOA, \$ in Millions)												
	PLT	QPA	Unit Cost	FY 01 Qty*	FY 01 Contract Forecast Date	FY 01 Total Cost Request	FY 02 Qty*	FY 02 Contract Forecast Date	FY 02 Total Cost Request	FY 03 Qty*	FY 03 Contract Forecast Date	FY 03 Total Cost Request
End Item												
Plans			142.858		October-00	50.08		October-01	18.15		October-02	15.48
Electronics			41.7		October-00	10.30		October-01	8.10		October-02	5.50
HM&E			52.3		October-00	11.90		October-01	10.40		October-02	6.50
Total AP			236.86			72.28			36.65			27.48

Exhibit P-10, Advance Procurement Requirements Analysis (Page 2 - Budget Justification)										Date: <b>February 2000</b>		
Appropriation (Treasury)Code/CC/BA/BSA/Item Control Number 1711 Shipbuilding and Conversion, Navy/BA 02/BLI 211100					Weapon System Submarine Refueling Overhauls (ERO)					P-1 Line Item Nomenclature SUBMARINE REFUELINGS		
(TOA, \$ in Millions)												
	PLT	QPA	Unit Cost	FY 04 Qty*	FY 04 Contract Forecast Date	FY 04 Total Cost Request	FY 05 Qty*	FY 05 Contract Forecast Date	FY 05 Total Cost Request			
End Item												
Plans			142.858		October-03	40.62		October-04	18.53			
Electronics			41.7		October-03	9.40		October-04	8.40			
HM&E			52.3		October-03	12.80		October-04	10.70			
Total AP			236.86			62.82			37.63			

BUDGET ITEM JUSTIFICATION SHEET (P-40)										DATE: FEBRUARY 2000	
FY 2001 BUDGET ESTIMATES											
Appropriation/Budget Activity		Shipbuilding and Conversion, Navy BA #2 OTHER WARSHIPS				Item Nomenclature:- DDG Guided Missile Destroyer PEO TSC CONTROLLED RESOURCES					
Total Funding By Ship	PRIOR YEARS	FY99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	To Complete	TOTAL PROGRAM	
Quantity	42	3	3	3	2	2	2	1	0	58	
End Cost (\$M)	35,168.1	2,791.0	2,796.0	2,806.9	1,980.2	2,063.6	2,099.8	1,247.1	0.0	50,952.7	
Less A.P.	(493.0)	(120.9)	(52.7)	(82.0)	(104.5) **	(105.7) **	(105.6) **	(51.0)	0.0	(1,115.4)	
Less Completion of PY Program	(94.0)	(35.0)	(28.0)	0.0	0.0	0.0	0.0	0.0	0.0	(157.0)	
Less FY96 Funding for MYP	(74.5)	0.0	(24.9)	0.0	0.0	0.0	0.0	0.0	0.0	(99.4)	
Less FY97 Funding for MYP	(36.0)	0.0	(15.7)	(11.3)	0.0	0.0	0.0	0.0	0.0	(63.0)	
Less Escalation	(48.2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(48.2)	
F.F. TOA	34,422.4	2,635.1	2,674.7	2,713.6	1,875.7	1,957.9	1,994.2	1,196.1	0.0	49,469.7	
PLUS A.P.	751.3	7.4	0.0	356.8	0.0	0.0	0.0	0.0	0.0	1,115.5	
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	
TOA (\$M)	35,336.1	2,642.5	2,674.7	3,070.4	1,875.7	1,957.9	1,994.2	1,196.1	0.0	50,747.6	
Total Program Funding by FY											
PLUS Completion of PY Program *	0.0	0.0	0.0	17.0	67.0	19.0	26.0	28.0	0.0	157.0	
PLUS Outfitting/ Post Delivery	649.0	80.8	74.6	186.3	136.0	158.3	136.9	192.9	579.2	2,194.0	
PLUS Escalation	48.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.2	
Total	36,033.3	2,723.3	2,749.3	3,273.7	2,078.7	2,135.2	2,157.1	1,417.0	579.2	53,146.8	
Unit Cost (Avg. End Cost)	837.3	930.3	932.0	935.6	990.1	1,031.8	1,049.9	1,247.1	N/A	878.5	
<p>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 Underway Replenishment Groups and the Marine Amphibious Task Forces in multithreat environments that include air, surface and subsurface threats. These ships will respond to Low Intensity Conflict/Coastal and Littoral Offshore Warfare (LIC/CALOW) scenarios as well as open ocean conflict providing and augmenting power projection and forward presence requirements.</p>											
Characteristics:				Production Status:		0001	0002	0003	0101	0102	0103
Hull	FLIGHT II	FLIGHT IIA		Contract Plans							
Length overall	466'	471'		Award Planned (Month)		03/98	03/98	03/98	03/98	03/98	03/98
Beam	59'	59'		Months to Complete							
Displacement	8900 TONS	9300 TONS	a) Award to Delivery		85	85	91	93	97	101	
			b) Construction Start to Deliver		36	37	37	36	37	36	
				Commissioning Date		TBD	TBD	TBD	TBD	TBD	TBD
				Completion of							
				Fitting-Out		6/05	6/05	12/05	2/06	6/06	10/06
Armament				Major Electronics:							
AEGIS WEAPON SYSTEM (SPY-1D(V))				AN/SQQ-89 (V) 15							
VLS MK41/SM-2				AN/SLQ-32 / AIEWS							
5"54 LWG/NSFS/ERGM				AN/USQ-82(FODMS)							
Tomahawk (ATWCS)				EXCOMM							
MK 32 MOD 7 Torpedo Tubes				MK 12 IFF							
CIWS / ESSM				COMBAT DF							
TBMD/CEC				JTIDS							
Note: Budgeted TOA across FY's 2002-2005 assumes continuing the current MYP acquisition strategy.											
* Additional funding for completion of prior year construction is included in SCN Line Item #20 (BA-5, BLI 530000).											
** Advanced Procurement funding from FY02-04 does not reflect P-1 Exhibit Controls because of the ship profile change from 3/3 (FY02/03) to 2/2/2/1 (FY02-05).											

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P-5 EXHIBIT  
FY 2001 BUDGET ESTIMATES  
February 2000

APPROPRIATION: SHIPBUILDING AND CONVERSION, NAVY  
PROGRAM COST BREAKDOWN (EXHIBIT P-5)

BUDGET ACTIVITY: 2 OTHER WARSHIPS		P-1 ITEM NOMENCLATURE: DDG 51		SUBHEAD: A224		
ELEMENT OF COST	FY 1999		FY 2000		FY 2001	
	QTY	TOT COST	QTY	TOT COST	QTY	TOT COST
PLAN COSTS	3	70,480	3	72,083	3	73,787
BASIC CONST/CONVERSION		1,121,106		1,136,173		1,162,891
CHANGE ORDERS		37,780		35,935		34,887
ELECTRONICS		517,685		498,554		499,519
PROPULSION EQUIPMENT		0		0		0
HM&E		51,107		52,255		53,177
OTHER COST		51,999		53,212		54,478
ORDNANCE		940,904		947,798		928,156
ESCALATION		0		0		0
TOTAL SHIP ESTIMATE		2,791,061 _A/		2,796,010 _A/		2,806,895 _A/
LESS: COMPLETION OF PRIOR YEAR PROGRAM FROM FY02		9,000				
LESS: COMPLETION OF PRIOR YEAR PROGRAM FROM FY04		26,000				
LESS: COMPLETION OF PRIOR YEAR PROGRAM FROM FY05				28,000		
LESS: FY96 FUNDING FOR MYP / EOQ				24,844		
LESS: FY97 FUNDING FOR MYP / EOQ				15,750		11,314
LESS: ADVANCE PROCUREMENT FY 1997		49,793		50,162		48,957
LESS: ADVANCE PROCUREMENT FY 1998		71,152		2,524		33,065
NET P-1 LINE ITEM	3	2,635,116 _B/	3	2,674,730 _B/	3	2,713,559 _B/

\_A/ Reflects award of the 12 ship MYP (3-3-3-3), plus one awarded option for an additional ship in FY98.

\_B/ To execute MYP (FY98-01) contracts and achieve savings (\$1.4Billion) already deleted from the MYP Budget, funding stability is essential. The majority (approximately 75%) of the MYP budget is tied directly to fact of life costs (ex. Fixed Price type - Forward priced contracts with options).

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P-5 EXHIBIT  
FY 2001 BUDGET ESTIMATES  
February 2000

APPROPRIATION: SHIPBUILDING AND  
CONVERSION, NAVY

PROGRAM COST BREAKDOWN (EXHIBIT P-5)

BUDGET ACTIVITY: 2  
OTHER WARSHIPS

P-1 ITEM NOMENCLATURE: DDG 51 SUBHEAD: A224

ELEMENT OF COST	FY 1994		FY 1995		FY 1996	
	QTY	TOT COST	QTY	TOT COST	QTY	TOT COST
PLAN COSTS	3	84,855	3	70,894	2	73,286
BASIC CONST/CONVERSION		1,088,626		1,094,009		756,283
CHANGE ORDERS		75,748		76,806		34,869
ELECTRONICS		461,652		437,423		387,180
PROPULSION EQUIPMENT		0		0		0
HM&E		52,362		50,209		41,421
OTHER COST		53,372		68,481		44,584
ORDNANCE		853,800		846,158		689,587
ESCALATION		73,750		76,572		0
TOTAL SHIP ESTIMATE		2,744,165		2,720,552		2,027,210
LESS: TRANSFER		34,700		64,844		3,723
LESS: COMPLETION OF PRIOR YEAR PROGRAM FROM FY01				9,000		8,000
LESS: ADVANCE PROCUREMENT FY 1991		800				
LESS: ADVANCE PROCUREMENT FY 1992		12,999				
LESS: ADVANCE PROCUREMENT FY 1993		22,099				
NET P-1 LINE ITEM	3	2,673,567	3	2,646,708	2	2,015,487

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P-5 EXHIBIT  
FY 2001 BUDGET ESTIMATES  
February 2000

APPROPRIATION: SHIPBUILDING AND  
CONVERSION, NAVY                      PROGRAM COST BREAKDOWN (EXHIBIT P-5)

BUDGET ACTIVITY: 2                      P-1 ITEM NOMENCLATURE: DDG 51    SUBHEAD: A224  
OTHER WARSHIPS

ELEMENT OF COST	QTY	FY 1997	FY 1998
		TOT COST	TOT COST
PLAN COSTS	4	5,957	4 78,537
BASIC CONST/CONVERSION		1,477,371	1,511,259
CHANGE ORDERS		61,493	52,351
ELECTRONICS		626,946	674,869
PROPULSION EQUIPMENT		0	0
HM&E		65,804	66,220
OTHER COST		55,123	55,947
ORDNANCE		1,074,242	1,186,411 _A/
ESCALATION		0	0
TOTAL SHIP ESTIMATE		3,366,936	3,625,594 _B/
LESS: TRANSFER		20,560	
LESS: COMPLETION OF PRIOR YEAR PROGRAM FROM FY02		11,500	46,500
LESS: COMPLETION OF PRIOR YEAR PROGRAM FROM FY03			19,000
LESS: FY96 FUNDING FOR MYP/EQQ			74,531
LESS: ADVANCE PROCUREMENT FY1996		118,362	1,092
LESS: FY97 FUNDING FOR MYP/EQQ			35,936
LESS: ADVANCE PROCUREMENT FY1997			84,529
NET P-1 LINE ITEM	4	3,216,514	4 3,364,006 _C/

\_A/ SPY-1D(V) introduced with B/L 7 Ph I on the third ship in FY98.

\_B/ Reflects award of the 12 ship MYP, plus one option for an additional ship in FY98.

\_C/ To execute MYP (FY98-01) contracts and achieve savings (\$1.4Billion) already deleted from the MYP Budget, funding stability is essential. The majority (approximately 75%) of the MYP budget is tied directly to fact of life costs (ex. Fixed Price type - Forward priced contracts with options).

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P-8A EXHIBIT  
FY 2001 BUDGET ESTIMATES  
February 2000

Ship Type: DDG-51 AEGIS DESTROYER

	( 3 ) FY 99		( 3 ) FY 00		( 3 ) FY 01	
	<u>QTY</u>	<u>TOT COST</u>	<u>QTY</u>	<u>TOT COST</u>	<u>QTY</u>	<u>TOT COST</u>
ELECTRONICS EQUIPMENT						
a. P-35 Items						
1. AN/SQQ 89	3	115,944	3	119,313	3	121,562
2. AN/SLQ 32/AIEWS	3	27,742	3	28,617	3	29,129
3. AN/USQ 82 (FODMS)	3	29,569	3	30,054	3	30,619
4. EXCOMM	3	80,875	3	82,281	3	83,754
Subtotal		254,130		260,265		265,064
b. Major Items						
1. NAVIGATION SYSTEM	3	2,581	3	2,631	3	2,678
2. MK-12 IFF Systems	3	14,793	3	15,036	3	15,317
3. AN/SLQ 25 NIXIE	3	2,843	3	2,890	3	2,944
4. AN/SRQ 4	3	9,879	3	10,040	3	10,230
5. COMBAT DF	3	55,963	3	56,882	3	57,955
6. JTIDS	3	8,078	3	8,212	3	8,366
7. CEC _A/						
Subtotal		94,137		95,691		97,490
c. Misc. Electronics		169,418		142,598		136,965
TOTAL ELECTRONICS		517,685		498,554		499,519

\_A/ All FY99-01 shipsets will be procured with OPN

UNCLASSIFIED  
CLASSIFICATION

P-8A EXHIBIT  
FY 2001 BUDGET ESTIMATES  
February 2000

Ship Type: DDG-51 AEGIS DESTROYERS

	( 3 ) FY 99		( 3 ) FY 00		( 3 ) FY 01	
	<u>QTY</u>	<u>TOT COST</u>	<u>QTY</u>	<u>TOT COST</u>	<u>QTY</u>	<u>TOT COST</u>
H,M,&E EQUIPMENT						
a. P-35 Items						
1. AN/STC 2 (IVCS)	3	24,393	3	24,794	3	25,259
Subtotal		24,393		24,794		25,259
c. Misc. H,M,&E		26,714		27,461		27,918
TOTAL H,M,&E ESTIMATE		51,107		52,255		53,177

UNCLASSIFIED  
CLASSIFICATION

P-8A EXHIBIT  
FY 2001 BUDGET ESTIMATES  
February 2000

Ship Type: DDG-51 AEGIS DESTROYERS

	( 3 ) FY 99		( 3 ) FY 00		( 3 ) FY 01	
	<u>QTY</u>	<u>TOT COST</u>	<u>QTY</u>	<u>TOT COST</u>	<u>QTY</u>	<u>TOT COST</u>
ORDNANCE EQUIPMENT						
a. P-35 Items						
1. AEGIS WEAPON SYSTEM (MK-7) _A/	3	510,954 _B/	3	502,509 _B/	3	496,973
2. VLS MK 41	3	127,787	3	129,885	3	129,685
3. 5"/54 LWG MK-45	3	49,869	3	50,687	3	50,644
4. TOMAHAWK (ATWCS)	3	47,878	3	48,664	3	49,582
Subtotal		736,488		731,745		726,884
b. Major Items						
1. Torpedo Tubes MK-32 Mod 7	6	5,358	6	5,447	6	5,549
2. SPY-1D(V) Site Equipment		2,000		9,301		
3. Electro-Optical System	3	8,823	3	7,973	3	8,123
4. MK 160 GFCS	3	13,542	3	13,764	3	14,024
5. AN/SPS-67 RADAR	3	7,558	3	7,681	3	7,826
6. TBMD	3	11,042	3	11,234	3	11,458
7. ESSM	3	6,356	3	5,689	3	5,790
Subtotal		54,679		61,089		52,770
c. Misc. Ordnance		149,737		154,964		148,502
TOTAL ORDNANCE		940,904		947,798		928,156

\_A/ SPY-1D(V) on B/L 7 Ph I ships.

\_B/ Includes AEGIS Weapon System multiyear procurement.

UNCLASSIFIED  
CLASSIFICATION

P-5 EXHIBIT  
FY 2001 BUDGET ESTIMATES  
February 2000

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

Fiscal Year: 2001 Ship Type: DDG 99-101

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

II. Classification of Cost Estimate

Class C Budget Estimate

<u>III. Basic Construction/Conversion</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>
a. Assumed Award Date	Mar-98	Dec-01	Dec-01
b. Contract Type	Multiyear procurement Fixed Price Incentive	Multiyear procurement Fixed Price Incentive	Multiyear procurement Fixed Price Incentive

IV. Escalation

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

V. Other Basic (Reserves/Miscellaneous)

N/A

SHIPBUILDING AND CONVERSION, NAVY  
SHIP PRODUCTION SCHEDULE

SHIP TYPE	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
DDG 79	BIW	94	Jul-94	Aug-96	May-00
DDG 80	ISI	95	Jan-95	Nov-96	Jun-00
DDG 81	BIW	95	Jan-95	Feb-97	Oct-00
DDG 82	ISI	95	Jan-95	Jul-97	Feb-01
DDG 83	BIW	96	Jun-96	Sep-97	Mar-01
DDG 84	ISI	96	Jun-96	Mar-98	Aug-01
DDG 85	BIW	97	Dec-96	May-98	Aug-01
DDG 86	ISI	97	Dec-96	Nov-98	Feb-02
DDG 87	BIW	97	Dec-96	Nov-98	Mar-02
DDG 88	ISI	97	Dec-96	Jul-99	Sep-02
DDG 89	ISI	98	Mar-98	Mar-00	Apr-03
DDG 90	BIW	98	Mar-98	Apr-00	Apr-03
DDG 91	ISI	98	Mar-98	Sep-00	Oct-03
DDG 92	BIW	98	Mar-98	Dec-00	Dec-03
DDG 93	ISI	99	Mar-98	Mar-01	Apr-04
DDG 94	BIW	99	Mar-98	Aug-01	Aug-04
DDG 95	ISI	99	Mar-98	Mar-01	Oct-04

UNCLASSIFIED  
CLASSIFICATION

P-5 EXHIBIT  
FY 2001 BUDGET ESTIMATES  
February 2000

SHIPBUILDING AND CONVERSION, NAVY  
SHIP PRODUCTION SCHEDULE

SHIP TYPE	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
DDG 96	BIW	00	Mar-98	Apr-02	Apr-05
DDG 97	ISI	00	Mar-98	Mar-02	Apr-05
DDG 98	ISI	00	Mar-98	Sep-02	Oct-05
DDG 99	BIW	01	Mar-98	Dec-02	Dec-05
DDG 100	ISI	01	Mar-98	Mar-03	Apr-06
DDG 101	BIW	01	Mar-98	Aug-03	Aug-06
DDG 102	TBD	02	Dec-01	Sep-03	Oct-06
DDG 103	TBD	02	Dec-01	Apr-04	Aug-07
DDG 104	TBD	03	Dec-01	Sep-04	Oct-07
DDG 105	TBD	03	Dec-01	Dec-04	Feb-08
DDG 106	TBD	04	Dec-01	Sep-05	Oct-08
DDG 107	TBD	04	Dec-01	Dec-05	Feb-09
DDG 108	TBD	05	Dec-01	Sep-06	Dec-09

Exhibit P-10 Advance Procurement Requirements Analysis (Page 1 - Funding)							Date: FEBRUARY 2000							
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number 212200							P-1 Line Item Nomenclature DDG 51							
Weapon System / Platform Basic Construction - Shipbuilding				First System (BY1) Award Date March 1998				First System (BY1) Completion Date April 2003						
(\$ in Millions)														
	PLT	When Req'd	Prior Years	1997	1998	1999	2000	2001	2002	2003	2004	2005	To Complete	Total
<b>End Item Qty</b>														
FY 97 for FY 98 (4)	Various	Mar-98		45.8										45.8
FY 97 for FY 99 (3)	Various	Mar-98		38.9										38.9
FY 97 for FY 00 (3)	Various	Mar-98		41.8										41.8
FY 97 for FY 01 (3)	Various	Mar-98		41.8										41.8
FY 98 for FY 99 (3)	Various	Mar-98			71.1									71.1
FY 98 for FY 00 (3)	Various	Mar-98												
FY 98 for FY 01 (3)	Various	Mar-98			29.3									29.3
FY 01 for FY 02 (2)	Various	Feb-01						87.6						87.6
FY 01 for FY 03 (2)	Various	Feb-01						87.7						87.7
FY 01 for FY 04 (2)	Various	Feb-01						87.6						87.6
FY 01 for FY 05 (1)	Various	Feb-01						43.9						43.9
<b>Total Advance Proc</b>				<b>168.3</b>	<b>100.4</b>			<b>306.8</b>						<b>575.5</b>
Description:														
FY97 and FY98 advanced procurement for the multiyear procurement (FY 98-01). Funding was awarded for Shipbuilding Economic Order Quantity (EOQ) materials. FY01 funding is to continue the DDG 51 MYP acquisition strategy through completion of the program (FY05).														



Exhibit P-10 Advance Procurement Requirements Analysis (Page 2 - Budget Justification)							Date: FEBRUARY 2000		
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number 212200				Weapon System / Platform Basic Construction - Shipbuilding		P-1 Line Item Nomenclature DDG 51			
(TOA, \$ in Millions)									
	PLT	QPA	Unit Cost	2000 QTY*	2000 Contract Forecast Date	BY1 Total Cost Request	2001 QTY*	2001 Contract Forecast Date	2001 Total Cost Request
<b>End Item</b>									
FY 01 for FY 02	Various	Various					2	Feb-01	87.6
FY 01 for FY 03	Various	Various					2	Feb-01	87.7
FY 01 for FY 04	Various	Various					2	Feb-01	87.6
FY 01 for FY 05	Various	Various					1	Feb-01	43.9
<b>Total Advance Proc</b>									<b>306.8</b>
Description:  FY 01 AP funding is budgeted to continue the DDG 51 MYP acquisition strategy through completion of the program (FY05).									

Exhibit P-10 Advance Procurement Requirements Analysis (Page 1 - Funding)										Date: FEBRUARY 2000				
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number 212200										P-1 Line Item Nomenclature DDG 51				
Weapon System / Platform AEGIS Weapon System					First System (BY1) Award Date January 1998					First System (BY1) Completion Date July 2001				
(\$ in Millions)														
	PLT	When Req'd	Prior Years	1997	1998	1999	2000	2001	2002	2003	2004	2005	To Complete	Total
<b>End Item Qty</b>														
FY 97 for FY 98 (3)	Various	Various		35.1										35.1
FY 97 for FY 99 (3)	Various	Various		7.2										7.2
FY 97 for FY 00 (3)	Various	Various		7.2										7.2
FY 97 for FY 01 (3)	Various	Various		7.2										7.2
<b>Total Advance Proc</b>				<b>56.7</b>										<b>56.7</b>
Description:  Advance procurement supports the multiyear procurement (FY 98-01) and was awarded for AEGIS Weapon System long lead components.														

Exhibit P-10 Advance Procurement Requirements Analysis (Page 1 - Funding)								Date: FEBRUARY 2000						
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number 212200								P-1 Line Item Nomenclature DDG 51						
Weapon System / Platform Sonar Dome Rubber Window				First System (BY1) Award Date N/A				First System (BY1) Completion Date N/A						
(\$ in Millions)														
	PLT	When Req'd	Prior Years	1997	1998	1999	2000	2001	2002	2003	2004	2005	To Complete	Total
<b>End Item Qty</b>														
FY 97 for FY 98 (3)	1.7 mos	N/A		3.6										3.6
FY 97 for FY 99 (3)	1.7 mos	N/A		3.6										3.6
FY 97 for FY 00 (1)	1.7 mos	N/A		1.2										1.2
FY 98 for FY 00 (2)	1.7 mos	N/A			2.5									2.5
FY 98 for FY 01 (3)	1.7 mos	N/A			3.8									3.8
FY 98 for FY 02 (2)	1.7 mos	N/A			2.5*									0.0
FY 99 for FY 03 (2)	1.7 mos	N/A				3.7*								0.0
FY 99 for FY 04 (2)	1.7 mos	N/A				3.7*								0.0
<b>Total Advance Proc</b>				<b>8.4</b>	<b>8.8</b>	<b>7.4</b>								<b>24.6</b>
Description:														
<p>The Sonar Dome Rubber Window has been contracted as part of a multiyear procurement with economic order quantities that produce an estimated \$64M in savings over annual end item procurements. The procurement schedule under the MYP will procure a quantity of 25 SDRW 7 units in FY 96, 7 units in FY 97, 7 units in FY 98, and 4 units in FY 99. The procurement schedule is required to maintain the viability of the sole producer of the Sonar Dome Rubber Window, BF Goodrich.</p>														
* Advanced procurement funding for FY02-FY04 does not reflect controls due to a profile chang														





BUDGET ITEM JUSTIFICATION SHEET (P-40)								DATE:		
FY 2001 PRESIDENT BUDGET (\$ in Millions)								February 2000		
APPROPRIATION/BUDGET ACTIVITY							P-1 ITEM NOMENCLATURE			
BA #3 AMPHIBIOUS SHIPS							LHD-1 AMPHIBIOUS ASSAULT SHIPS (BLI:3035)			
	PRIOR YEARS	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TO COMPLETE	TOTAL PROGRAM
<b>QUANTITY</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>8</b>
<b>Total Funding By Ship</b>										
End Cost	7,492.9	0.0	0.0	0.0	0.0	0.0	0.0	1,922.8	491.2	9,906.9
Less Advance Procurement	641.5	0.0	0.0	0.0	0.0	0.0	0.0	400.4	0.0	1,041.9
Less Escalation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Full Funding TOA	6,851.4	0.0	0.0	0.0	0.0	0.0	0.0	1,522.4	491.2	8,865.0
Plus Advance Procurement	641.5	44.2	356.2	0.0	0.0	0.0	0.0	0.0	0.0	1,041.9
Total Obligational Authority	7,492.9	44.2	356.2	0.0	0.0	0.0	0.0	1,522.4	491.2	9,906.9
<b>Total Program Funding By Fiscal Year</b>										
Plus Outfitting and Post Delivery	191.7	20.1	14.9	19.1	0.0	0.0	0.0	0.0	50.6	296.4
<b>Total</b>	<b>7,684.6</b>	<b>64.3</b>	<b>371.1</b>	<b>19.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1,522.4</b>	<b>541.8</b>	<b>10,203.3</b>
Unit Cost (Ave. End Cost)	1,070.4	0.0	0.0	0.0	0.0	0.0	0.0	1,922.8	0.0	1,238.4

  

**MISSION:**  
 The primary mission of the ship will be amphibious assault. As a secondary mission, the LHD will operate AV-8B aircraft in the attack role. The LHD will have the capability to operate and support helicopters, Vertical Short Takeoff and Landing (VSTOL) aircraft, amphibious craft and landing craft. It will be capable of embarking the troops, vehicles, cargo and aircraft landing forces and launching them in assault.

<b><u>Characteristics:</u></b>		<b><u>Production Status:</u></b>	<b><u>FY 1996</u></b>	<b><u>FY 2005</u></b>
<u>Hull</u>		Contract Plans		
Length overall	844'	Award Planned (Month)	12/95	1/05
Beam	106'	Months to Complete		
Displacement	40,533 TONS	a) Award to Delivery	64	66
Draft	26'6"	b) Construction Start to Delivery	48	48
		Commissioning Date	6/01	TBD

  

<b><u>Armament:</u></b>	<b><u>Major Electronics:</u></b>
CIWS/MK-15 Mod 12	AN/SLQ-32A (V)3
AN/SPS-49(V)5 Radar	EXCOMM
AN/SPS-48E	Ship Surveillance Exploitation System
NATO Seasparrow	ITAWDS
Rolling Airframe Missile	NTCS-A

UNCLASSIFIED  
CLASSIFICATION

P-5 EXHIBIT  
FY 2001 PRESIDENT'S BUDGET  
FEBRUARY 2000

APPROPRIATION: SHIPBUILDING AND  
CONVERSION, NAVY

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

BUDGET ACTIVITY: 3  
AMPHIBIOUS SHIPS

P-1 ITEM NOMENCLATURE: LHD 1 CLASS  
AMPHIBIOUS ASSAULT SHIP

SUBHEAD: 8386

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FY 1996		
ELEMENT OF COST	QTY	TOT COST
PLAN COSTS	1	0
BASIC CONST/CONVERSION		804,152
CHANGE ORDERS		84,741
ELECTRONICS		170,886
PROPULSION EQUIPMENT		0
HM&E		25,343
OTHER COST		45,028
ORDNANCE		78,817
ESCALATION		141,481
TOTAL SHIP ESTIMATE		1,350,448
ADVANCE PROCUREMENT FY 94		50,000
ADVANCE PROCUREMENT FY 95		49,649
NET P-1 LINE ITEM		1,250,799

UNCLASSIFIED  
CLASSIFICATION

P-27 EXHIBIT  
FY 2001 PRESIDENT'S BUDGET  
FEBRUARY 2000

SHIPBUILDING AND CONVERSION, NAVY  
Ship Production Schedule

SHIP TYPE	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
LHD 7	INGALLS	1996	Dec-95	Sep-96	Apr-01

Exhibit P-10, Advance Procurement Requirements Analysis

(Page 1 - Funding)

Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number

1711N/BA3/Amphibious Ships/3035

Weapon System:

LHD 8

First System (BY1) Award Date:

Apr-00

Date:

Feb-00

P-1 Line Item Nomenclature:

LHD 1 Amphibious Assault Ship

First System (BY1) Completion Date:

(\$ in Millions)

	When Req'd	Prior Years	PY-1 FY 97	PY FY 98	CY FY 99	BY1 FY 00	BY2 FY 01	BY3 FY 02	BY4 FY 03	BY5 FY 04	BY6 FY 05	To Complete	Total
PLT													
End Item Qty												1	1
Plans													0
Basic (FY99)					44.2								44.2
Basic (FY00)						215.8							215.8
Change Orders													0
Electronics (FY00)						68.7							68.7
Propulsion													0
HM&E (FY00)						4							4
Other Cost (FY00)						2.2							2.2
Ordnance (FY00)						65.5							65.5
Escalation													0
Total AP			0	0	0	44.2	356.2	0	0	0	0	0	400.4

Description:

FY99 Advance Procurement for LHD 8

FY00 Advance Procurement for LHD 8

Exhibit P-10, Advance Procurement Requirements Analysis

(Page 2 - Budget Justification)

Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number  
 1711N/BA3/Amphibious Ships/3035  
 (TOA, \$ in Millions)

Date:

Feb-00

Weapon System  
 LHD 8

P-1 Line Item Nomenclature  
 LHD 1 Amphibious Assault Ship

End Item	PLT	QPA	Unit Cost	FY 98 Qty	FY 98 Contract Forecast Date	FY 98 Total Cost Request	FY 99 Qty	FY 99 Contract Forecast Date	FY 99 Total Cost Request	FY 00 Qty	FY 00 Contract Forecast Date	FY 00 Total Cost Request	FY 01 Qty	FY 01 Contract Forecast Date	FY 01 Total Cost Request
Plans															
Basic (FY99)								Apr-00	44.2						
Basic (FY00)											Apr-00	215.8			
Change Orders															
Electronics (FY00)											Apr-00	68.7			
Propulsion															
HM&E (FY00)											Apr-00	4			
Other Cost (FY00)											Apr-00	2.2			
Ordnance (FY00)											Apr-00	65.5			
Escalation															

Total AP

Description:

FY99 Advance Procurement for LHD 8

FY00 Advance Procurement for LHD 8

**BUDGET ITEM JUSTIFICATION SHEET (P-40)**

**DATE:**  
**FEBRUARY 2000**

**FY 2001 PRESIDENT'S BUDGET (\$ in Millions)**

APPROPRIATION/BUDGET ACTIVITY						P-1 ITEM NOMENCLATURE				
BA #3 AMPHIBIOUS SHIPS						LPD-17 AMPHIBIOUS TRANSPORT DOCK				
	PRIOR YRS	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TO COMP	TOTAL PROGRAM
<b>QUANTITY</b>	1	1	2	2	2	2	2	0	0	12
<b>Total Funding By Ship</b>										
End Cost	1,167.7	781.0	1,565.4	1,489.3	1,492.4	1,574.9	1,713.6	0.0	0.0	9,784.3
Less Advance Procurement	0.0	96.1	0.0	0.0	2.3	9.2	9.2	0.0	0.0	116.8
Less Completion of PY Programs	172.0	52.0	61.0	0.0	0.0	0.0	0.0	0.0	0.0	285.0
Less Escalation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Full Funding TOA	995.7	632.9	1,504.4	1,489.3	1,490.1	1,565.7	1,704.4	0.0	0.0	9,382.5
Plus Advance Procurement	96.1	0.0	0.0	20.7	0.0	0.0	0.0	0.0	0.0	116.8
Total Obligational Authority	1,091.8	632.9	1,504.4	1,510.0	1,490.1	1,565.7	1,704.4	0.0	0.0	9,499.3
<b>Total Program Funding By Fiscal Year</b>										
Plus Completion of PY Programs *	0.0	0.0	0.0	40.0	84.0	161.0	0.0	0.0	0.0	285.0
Plus Outfitting & Post Delivery	0.0	0.0	12.2	26.5	53.7	101.8	69.6	142.0	412.5	818.3
<b>TOTAL</b>	1,091.8	632.9	1,516.6	1,576.5	1,627.8	1,828.5	1,774.0	142.0	412.5	10,602.6
Unit Cost (Ave. End Cost)	1,167.7	781.0	782.7	744.6	746.2	787.5	856.8			815.4

**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)	9601	9901	0001	0002	0101	0102
	Dec-96	Dec-98	Feb-00	Feb-00	Dec-00	Dec-00
Months to Complete						
a) Award to Delivery	81	65	61	60	54	57
b) Const. Start to Delivery	41	41	42	42	42	42
Commissioning Date	TBD	TBD	TBD	TBD	TBD	TBD

**Armament**

RAM Missile System  
 SPQ-9B  
 AN/SPS-48E  
 30 mm Mark 46 Gun System  
 50 cal Machine Gun  
 VLS/ESSM \*\*

**Electronics**

C4ISR  
 SSDS Mark 2 (including CEC)  
 MK 12 AIMS IFF  
 AN/SLQ-32(V)2 (LPD17 - LPD21)  
 AIEWS (LPD22 - LPD28)  
 BFTT  
 NULKA

\* Additional funding for completion of prior year construction is included in SCN Line Item #20.

\*\* Space, weight, cables and foundations only.

UNCLASSIFIED

CLASSIFICATION

APPROPRIATION: SHIPBUILDING AND  
CONVERSION, NAVY

P-5 EXHIBIT

FY 2001 PRESIDENT'S BUDGET

FEBRUARY 2000

WEAPONS SYSTEM COST ANALYSIS (EXHIBIT P-5)

(Dollars in Thousands)

BUDGET ACTIVITY: 3  
AMPHIBIOUS SHIPS

P-1 ITEM NOMENCLATURE: LPD-17  
AMPHIBIOUS TRANSPORT DOCK

SUBHEAD: 8317

ELEMENT OF COST	FY 1996		FY 1999		FY 2000		FY 2001	
	QTY	TOT COST	QTY	TOT COST	QTY	TOT COST	QTY	TOT COST
PLAN COSTS	1	0	1	0	2	0	2	0
BASIC CONST/CONVERSION		835,653		537,852		1,086,669		996,227
CHANGE ORDERS		75,752		27,522		51,354		45,100
ELECTRONICS		145,133		140,591		275,668		279,675
PROPULSION EQUIPMENT		0		0		0		0
HM&E		42,288		18,371		40,764		42,836
OTHER COST		13,067		7,528		2,929		2,707
ORDNANCE		55,768		49,165		108,062		89,489
ESCALATION		0		0		0		33,252
TOTAL SHIP ESTIMATE		1,167,661		781,029		1,565,446		1,489,286
LESS: ADVANCE PROCUREMENT FY 1998				96,106				
LESS: FY 2000 TRANSFER		28,523						
LESS: COMPLETION OF PY PROGRAMS		172,000		52,000		61,000		
NET P-1 LINE ITEM		967,138		632,923		1,504,446		1,489,286

UNCLASSIFIED

CLASSIFICATION

SHIPBUILDING AND CONVERSION, NAVY

SHIP PRODUCTION SCHEDULE

EXHIBIT P-27

FY 2001 PRESIDENT'S BUDGET

FEBRUARY 2000

SHIP TYPE	HULL NUMBER	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
LPD 9601	LPD 17	AVONDALE	1996	DECEMBER 1996	APRIL 2000	SEPTEMBER 2003
LPD 9901	LPD 18	AVONDALE	1999	DECEMBER 1998	DECEMBER 2000	MAY 2004
LPD 0001	LPD 19	AVONDALE*	2000	FEBRUARY 2000	SEPTEMBER 2001	MARCH 2005
LPD 0002	LPD 20	AVONDALE	2000	FEBRUARY 2000	AUGUST 2001	FEBRUARY 2005
LPD 0101	LPD 21	AVONDALE	2001	DECEMBER 2000	DECEMBER 2001	JUNE 2005
LPD 0102	LPD 22	AVONDALE*	2001	DECEMBER 2000	MARCH 2002	SEPTEMBER 2005
LPD 0201	LPD 23	AVONDALE	2002	DECEMBER 2001	DECEMBER 2002	JUNE 2006
LPD 0202	LPD 24	AVONDALE	2002	DECEMBER 2001	JUNE 2003	DECEMBER 2006
LPD 0301	LPD 25	AVONDALE*	2003	DECEMBER 2002	DECEMBER 2003	JUNE 2007
LPD 0302	LPD 26	AVONDALE	2003	DECEMBER 2002	MARCH 2004	SEPTEMBER 2007
LPD 0401	LPD 27	AVONDALE	2004	DECEMBER 2003	DECEMBER 2004	JUNE 2008
LPD 0402	LPD 28	AVONDALE*	2004	DECEMBER 2003	MARCH 2005	SEPTEMBER 2008

\* Avondale Industries is expected to be the prime contractor for all 12 ships of the LPD17 class. Based on current industry plans, those ships marked with the asterisk are expected to be constructed at Bath Iron Works.

UNCLASSIFIED

CLASSIFICATION

P-8A EXHIBIT

FY 2001 PRESIDENT'S BUDGET

FEBRUARY 2000

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

Ship Type: LPD 17

	(1)		(1)		(2)		(2)	
	FY 96		FY 99		FY 00		FY 01	
	<u>QTY</u>	<u>TOT COST</u>						
ELECTRONIC EQUIPMENT								
a. P-35 Items								
1. C4ISR	1	66,180	1	62,676	2	127,260	2	134,883
2. SSDS Mark 2	1	34,520	1	32,382	2	64,406	2	65,826
3. MK 12 AIMS IFF	1	5,819	1	5,255	2	10,374	2	10,910
4. AN/SLQ-32(V)2 (Refurb)	1	4,343	1	5,002	2	10,156	1	5,173
5. AIEWS	0	0	0	0	0	0	1	7,722
Subtotal		110,862		105,315		212,196		224,514
b. Major Items								
1. NULKA	1	1,588	1	1,298	2	2,725	2	3,011
2. AMPHIB ASSAULT DIR SYSTEM	1	3,232	1	3,416	2	6,738	2	6,251
3. BATTLE FORCE TACTICAL TRAINER	1	6,341	1	6,462	2	13,121	2	9,455
4. NIXIE	1	975	1	964	2	1,014	2	1,033
5. RADIAC	1	131	1	142	2	267	2	272
Subtotal		12,267		12,282		23,865		20,022
c. Other Electronics		22,004		22,994		39,607		35,139
TOTAL ELECTRONICS		145,133		140,591		275,668		279,675

UNCLASSIFIED

CLASSIFICATION

P-8A EXHIBIT

FY 2001 PRESIDENT'S BUDGET

FEBRUARY 2000

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

Ship Type: LPD 17

	(1)		(1)		(2)		(2)	
	FY 96		FY 99		FY 00		FY 01	
	<u>QTY</u>	<u>TOT COST</u>						
HM&E EQUIPMENT								
a. P-35 Items								
NONE								
Subtotal		0		0		0		0
b. Major Items								
1. Boats	3	865	3	833	6	1,562	6	1,597
2. CCTV, Site 400	1	340	1	325	2	631	2	635
3. Truck, Forklift	5	600	5	757	10	1,304	10	1,568
4. Chemical Warfare Detector	1	28	1	28	2	56	2	58
Subtotal		1,833		1,943		3,553		3,858
c. Other HM&E		40,455		16,428		37,211		38,978
(Includes Shock Test, \$12.6 million in FY 1996 for LPD17)								
TOTAL HM&E		42,288		18,371		40,764		42,836

UNCLASSIFIED

CLASSIFICATION

P-8A EXHIBIT

FY 2001 PRESIDENT'S BUDGET

FEBRUARY 2000

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

Ship Type: LPD 17

	(1)		(1)		(2)		(2)	
	FY 96		FY 99		FY 00		FY 01	
	<u>QTY</u>	<u>TOT COST</u>						
ORDNANCE EQUIPMENT								
a. P-35 Items								
1. RAM Missile System	2	19,900	2	19,348	4	40,615	4	20,585
2. AN/SPS-48E	1	10,159	1	10,188	2	21,326	2	21,478
3. SPQ-9B	1	5,740	1	5,136	2	10,781	2	12,621
Subtotal		35,799		34,672		72,722		54,684
b. Major Items								
1. 50 CAL Machine Gun	2	35	2	30	4	84	4	86
2. Flight Cntrl & Instrument Landing System	1	1,992	1	1,970	2	976	2	1,089
with Helicopter Operations Surveillance System and Dynamic Interface Test								
3. MK46 Gun Barrels	2	541	2	541	4	1,082	4	1,076
Subtotal		2,568		2,541		2,142		2,251
c. Other Ordnance		17,401		11,952		33,198		32,554
TOTAL ORDNANCE		55,768		49,165		108,062		89,489

UNCLASSIFIED  
CLASSIFICATION

P-8B EXHIBIT  
FY 2001 PRESIDENT'S BUDGET  
FEBRUARY 2000

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

Ship Type: LPD 17

I. Design Schedule

	<u>Start</u>	<u>Complete</u>
Preliminary Design	JAN 1993	NOV 1993
Contract Design	DEC 1993	MAR 1996
Issue Date for TOR	-	SEP 1988
Detail Design	DEC 1996	FEB 2001

II. Classification of Cost Estimates

CLASS C

III. Basic Construction/Conversion

	<u>FY96</u>	<u>FY99</u>	<u>FY00 (0001)</u>	<u>FY00 (0002)</u>	<u>FY01</u>
a. RFP Response Date	JUN 1996	JUN 1996	JUN 1996	OCT 1999	OCT 2000
b. Award Date	DEC 1996	DEC 1998	FEB 2000	FEB 2000	DEC 2000
c. Contract Type	CPAF	CPAF	CPIF	CPIF	FPI

IV. Escalation

Base Date	FORWARD PRICED	FORWARD PRICED	FORWARD PRICED	MAR 1999	MAR 2000
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UNCLASSIFIED

CLASSIFICATION

P-35 EXHIBIT

FY 2001 PRESIDENT'S BUDGET

FEBRUARY 2000

Ship Type - LPD 17

Item - Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

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

<u>II. CURRENT FUNDING:</u>	<u>QTY</u>	<u>FY 96</u>	<u>QTY</u>	<u>FY 97</u>	<u>QTY</u>	<u>FY 98</u>	<u>QTY</u>	<u>FY 99</u>	<u>QTY</u>	<u>FY 00</u>	<u>QTY</u>	<u>FY 01</u>
Major Hardware	1	25,608	0	0	0	0	1	32,371	2	68,371	2	74,987
Ancillary Equipment		0						207		0		0
Documentation and Systems Engineering		0						3,588		0		0
Software		3,421						7,131		3,181		3,242
Technical Engineering		16,736						2,185		10,487		10,584
Spares		2,505						656		5,775		5,883
Turnkey		<u>17,910</u>						<u>16,538</u>		<u>39,446</u>		<u>40,187</u>
TOTAL		66,180						62,676		127,260		134,883

III. CONTRACT DATA:

<u>PROGRAM</u>			<u>HARDWARE</u>	<u>CONTRACT</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>QUANTITY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>

IV. DELIVERY DATA:

<u>PROGRAM</u>	<u>SHIP</u>	<u>EARLIEST SHIP</u>	<u>MONTHS REQ.</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>YEAR</u>	<u>TYPE</u>	<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>

V. COMPETITION/SECOND SOURCE INITATIVES:

UNCLASSIFIED

CLASSIFICATION

P-35 EXHIBIT

FY 2001 PRESIDENT'S BUDGET

FEBRUARY 2000

Ship Type - LPD 17

Item - Ship Self Defense System Mark 2

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

Ship Self Defense System Mark 2 is microcomputer-based, self-defense coordination system that integrates and automates multiple sensors, self defense weapons, and softkill systems to provide quick reaction combat capability against anti-ship cruise missile threats. Cooperative Engagement Capability (CEC) coordinates all anti-air warfare sensors into single, real time, fire control quality composite track which improves battle force air defense.

II. CURRENT FUNDING:

	<u>QTY</u>	<u>FY 96</u>	<u>QTY</u>	<u>FY 97</u>	<u>QTY</u>	<u>FY 98</u>	<u>QTY</u>	<u>FY 99</u>	<u>QTY</u>	<u>FY 00</u>	<u>QTY</u>	<u>FY 01</u>
Major Hardware	1	17,406	0	0	0	0	1	16,351	2	26,621	2	27,331
Ancillary Equipment		0						191		0		0
Systems Engineering		1,622						1,905		0		0
Technical Data and Documentation		600						663		1,435		1,462
Technical Engineering		1,504						1,489		14,222		14,488
Spares		2,538						1,847		2,897		2,952
Other Appropriate Costs		<u>10,850</u>						<u>9,936</u>		<u>19,231</u>		<u>19,593</u>
TOTAL		34,520						32,382		64,406		65,826

III. CONTRACT DATA:

PROGRAM			HARDWARE	CONTRACT
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>QUANTITY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>

IV. DELIVERY DATA:

PROGRAM	SHIP	EARLIEST SHIP	MONTHS REQ.	PRODUCTION	REQUIRED
<u>YEAR</u>	<u>TYPE</u>	<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>

V. COMPETITION/SECOND SOURCE INITIATIVES:

UNCLASSIFIED

CLASSIFICATION

P-35 EXHIBIT

FY 2001 PRESIDENT'S BUDGET

FEBRUARY 2000

Ship Type - LPD 17

Item - MK 12 AIMS IFF [AN/UPX-28 ]

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The Transponder Set is an Automatic Identification and Monitoring System (AIMS) Identification Friend or Foe (IFF) system that receives interrogation signals from air, surface and land IFF - equipped units and automatically replies with a coded response signal that provides ownship position and identification.

<u>II. CURRENT FUNDING:</u>	<u>QTY</u>	<u>FY 96</u>	<u>QTY</u>	<u>FY 97</u>	<u>QTY</u>	<u>FY 98</u>	<u>QTY</u>	<u>FY 99</u>	<u>QTY</u>	<u>FY 00</u>	<u>QTY</u>	<u>FY 01</u>
Major Hardware	1	3,234	0	0	0	0	1	3,435	2	6,832	2	7,301
Ancillary Equipment		10						174		68		69
Systems Engineering		892						843		672		684
Technical Data and Documentation		0						93		535		545
Technical Engineering		190						0		467		476
Spares		1,060						130		603		615
Other Appropriate Costs		<u>433</u>						<u>580</u>		<u>1,197</u>		<u>1,220</u>
<b>TOTAL</b>		<b>5,819</b>						<b>5,255</b>		<b>10,374</b>		<b>10,910</b>

III. CONTRACT DATA:

<u>PROGRAM</u>	<u>CONTRACTOR</u>	<u>QUANTITY</u>	<u>HARDWARE</u>	<u>CONTRACT</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>QUANTITY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>

IV. DELIVERY DATA:

<u>PROGRAM</u>	<u>SHIP</u>	<u>EARLIEST SHIP</u>	<u>MONTHS REQ.</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>YEAR</u>	<u>TYPE</u>	<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>

V. COMPETITION/SECOND SOURCE INITIATIVES:

UNCLASSIFIED

CLASSIFICATION

P-35 EXHIBIT

FY 2001 PRESIDENT'S BUDGET

FEBRUARY 2000

Ship Type - LPD 17

Item - AN/SLQ-32(V)2 (Refurbished)

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

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

II. CURRENT FUNDING:

	<u>QTY</u>	<u>FY 96</u>	<u>QTY</u>	<u>FY 97</u>	<u>QTY</u>	<u>FY 98</u>	<u>QTY</u>	<u>FY 99</u>	<u>QTY</u>	<u>FY 00</u>	<u>QTY</u>	<u>FY 01</u>
Major Hardware	1	3,379	0	0	0	0	1	3,351	2	4,097	1	2,087
Ancillary Equipment		0						0		0		0
Systems Engineering		0						0		0		0
Technical Data and Documentation		1						0		0		0
Technical Engineering		236						0		0		0
Spares		62						172		343		174
Other Appropriate Costs		<u>665</u>						<u>1,479</u>		<u>5,716</u>		<u>2,912</u>
TOTAL		4,343						5,002		10,156		5,173

III. CONTRACT DATA:

<u>PROGRAM</u>			<u>HARDWARE</u>	<u>CONTRACT</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>QUANTITY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>

IV. DELIVERY DATA:

<u>PROGRAM</u>	<u>SHIP</u>	<u>EARLIEST SHIP</u>	<u>MONTHS REQ.</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>YEAR</u>	<u>TYPE</u>	<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>

V. COMPETITION/SECOND SOURCE INITATIVES:

UNCLASSIFIED

CLASSIFICATION

P-35 EXHIBIT

FY 2001 PRESIDENT'S BUDGET

FEBRUARY 2000

Ship Type - LPD 17

Item - AIEWS beginning with LPD22.

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The Advanced Integrated Electronic Warfare System is an improved passive electronics countermeasure system.

<u>II. CURRENT FUNDING:</u>	<u>QTY</u>	<u>FY 96</u>	<u>QTY</u>	<u>FY 97</u>	<u>QTY</u>	<u>FY 98</u>	<u>QTY</u>	<u>FY 99</u>	<u>QTY</u>	<u>FY 00</u>	<u>QTY</u>	<u>FY 01</u>
Major Hardware	0	0	0	0	0	0	0	0	0	0	1	6,225
Ancillary Equipment												0
Systems Engineering												0
Technical Data and Documentation												39
Technical Engineering												303
Spares												269
Other Appropriate Costs												<u>886</u>
TOTAL												7,722

III. CONTRACT DATA:

<u>PROGRAM</u>			<u>HARDWARE</u>	<u>CONTRACT</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>QUANTITY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>

IV. DELIVERY DATA:

<u>PROGRAM</u>	<u>SHIP</u>	<u>EARLIEST SHIP</u>	<u>MONTHS REQ.</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>YEAR</u>	<u>TYPE</u>	<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>

V. COMPETITION/SECOND SOURCE INITATIVES:

UNCLASSIFIED

CLASSIFICATION

P-35 EXHIBIT

FY 2001 PRESIDENT'S BUDGET

FEBRUARY 2000

Ship Type - LPD 17

Item - RAM Missile System [MK31 MOD 0 ]

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The Rolling Airframe Missile system is a short-range, fast-reaction, high-firepower, lightweight weapon designed to destroy incoming anti-ship cruise missiles.

II. CURRENT FUNDING:

	<u>QTY</u>	<u>FY 96</u>	<u>QTY</u>	<u>FY 97</u>	<u>QTY</u>	<u>FY 98</u>	<u>QTY</u>	<u>FY 99</u>	<u>QTY</u>	<u>FY 00</u>	<u>QTY</u>	<u>FY 01</u>
Major Hardware	2	13,854	0	0	0	0	2	13,854	4	29,048	4	20,585
Ancillary Equipment		588						485		1,022		0
Systems Engineering		1,236						1,133		2,379		0
Technical Data and Documentation		0						0		0		0
Technical Engineering		759						759		1,554		0
Spares		474						371		773		0
Other Appropriate Costs		<u>2,989</u>						<u>2,746</u>		<u>5,839</u>		<u>0</u>
TOTAL END COST		19,900						19,348		40,615		20,585
Advance Procurement FY01 for FY02 *												2,300
Advance Procurement FY01 for FY03 *												9,200
Advance Procurement FY01 for FY04 *												9,200
* Provides economic order quantity for Rolling Airframe Missile System multiyear procurement												
Total Obligational Authority FY01												41,285

III. CONTRACT DATA:

<u>PROGRAM</u>			<u>HARDWARE</u>	<u>CONTRACT</u>
<u>YEAR</u>	<u>CONTRACTOR</u>	<u>QUANTITY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>

IV. DELIVERY DATA:

<u>PROGRAM</u>	<u>SHIP</u>	<u>EARLIEST SHIP</u>	<u>MONTHS REQ.</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>YEAR</u>	<u>TYPE</u>	<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>

V. COMPETITION/SECOND SOURCE INITIATIVES:

UNCLASSIFIED

CLASSIFICATION

P-35 EXHIBIT

FY 2001 PRESIDENT'S BUDGET

FEBRUARY 2000

Ship Type - LPD 17

Item - AN/SPS-48E (Refurbished)

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The AN/SPS-48E is a long-range, three dimensional, air-search radar system that provides contact range, bearing, and height information.

<u>II. CURRENT FUNDING:</u>	<u>QTY</u>	<u>FY 96</u>	<u>QTY</u>	<u>FY 97</u>	<u>QTY</u>	<u>FY 98</u>	<u>QTY</u>	<u>FY 99</u>	<u>QTY</u>	<u>FY 00</u>	<u>QTY</u>	<u>FY 01</u>
Major Hardware	1	7,765	0	0	0	0	1	8,320	2	16,265	2	16,322
Ancillary Equipment		0						0		0		0
Systems Engineering		216						227		614		626
Technical Data and Documentation		108						118		320		326
Technical Engineering		216						173		468		476
Spares		300						242		654		667
Other Appropriate Costs		<u>1,554</u>						<u>1,108</u>		<u>3,005</u>		<u>3,061</u>
TOTAL		10,159						10,188		21,326		21,478

III. CONTRACT DATA:

<u>PROGRAM</u>	<u>CONTRACTOR</u>	<u>QUANTITY</u>	<u>HARDWARE</u>	<u>CONTRACT</u>
<u>YEAR</u>			<u>UNIT COST</u>	<u>AWARD DATE</u>

IV. DELIVERY DATA:

<u>PROGRAM</u>	<u>SHIP</u>	<u>EARLIEST SHIP</u>	<u>MONTHS REQ.</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>YEAR</u>	<u>TYPE</u>	<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>

V. COMPETITION/SECOND SOURCE INITATIVES:

UNCLASSIFIED

CLASSIFICATION

P-35 EXHIBIT

FY 2001 PRESIDENT'S BUDGET

FEBRUARY 2000

Ship Type - LPD 17

Item - AN/SPQ-9B

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The AN/SPQ-9B is a high resolution, X-band, narrow beam radar that provides both air and surface tracking information.

<u>II. CURRENT FUNDING:</u>	<u>QTY</u>	<u>FY 96</u>	<u>QTY</u>	<u>FY 97</u>	<u>QTY</u>	<u>FY 98</u>	<u>QTY</u>	<u>FY 99</u>	<u>QTY</u>	<u>FY 00</u>	<u>QTY</u>	<u>FY 01</u>
Major Hardware	1	4,080	0	0	0	0	1	4,280	2	8,307	2	10,101
Ancillary Equipment		0						0		0		0
Systems Engineering		233						130		296		301
Technical Data and Documentation		200						100		473		482
Technical Engineering		145						75		69		70
Spares		647						465		641		653
Other Appropriate Costs		<u>435</u>						<u>86</u>		<u>995</u>		<u>1,014</u>
TOTAL		5,740						5,136		10,781		12,621

III. CONTRACT DATA:

<u>PROGRAM</u>	<u>CONTRACTOR</u>	<u>QUANTITY</u>	<u>HARDWARE</u>	<u>CONTRACT</u>
<u>YEAR</u>			<u>UNIT COST</u>	<u>AWARD DATE</u>

IV. DELIVERY DATA:

<u>PROGRAM</u>	<u>SHIP</u>	<u>EARLIEST SHIP</u>	<u>MONTHS REQ.</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>YEAR</u>	<u>TYPE</u>	<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>

V. COMPETITION/SECOND SOURCE INITATIVES:

Exhibit P-10, Advance Procurement Requirements Analysis (Page 1 - Funding)								Date: FEBRUARY 2000						
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number 1711N/BA3/Amphibious Ships/3036								P-1 Line Item Nomenclature: LPD17						
Weapon System: LPD17-28				First System (BY1) Award Date: February 2000				First System (BY1) Completion Date: March 2005						
(\$ in Millions)														
	PLT	When Req'd	Prior Years	PY-1 FY 97	PY FY 98	CY FY 99	BY1 FY 00	BY2 FY 01	BY3 FY 02	BY4 FY 03	BY5 FY 04	BY6 FY 05	To Complete	Total
End Item Qty			1			1	2	2	2	2	2			12
Plans														0.000
Basic (FY98 for FY99)					91.948									91.948
Change Orders														0.000
Electronics														0.000
Propulsion														0.000
HM&E														0.000
Other Cost														0.000
Ordnance (FY98 for FY99)					4.158									4.158
Ordnance (FY01 for FY02)								2.300						2.300
Ordnance (FY01 for FY03)								9.200						9.200
Ordnance (FY01 for FY04)								9.200						9.200
Escalation														0.000
Total AP			0.000	0.000	96.106	0.000	0.000	20.700	0.000	0.000	0.000	0.000	0.000	116.806
Description: FY98 Advance Procurement for FY99 Ship FY01 Rolling Airframe Missile System Multiyear Procurement														

Exhibit P-10, Advance Procurement Requirements Analysis

Exhibit P-10, Advance Procurement Requirements Analysis (Page 2 - Budget Justification)													Date: FEBRUARY 2000		
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number 1711N/BA3/Amphibious Ships/3036										Weapon System LPD17-28			P-1 Line Item Nomenclature LPD17		
(TOA, \$ in Millions)															
	PLT	QPA	Unit Cost	FY 98 Qty	FY 98 Contract Forecast Date	FY 98 Total Cost Reques	FY 99 Qty	FY 99 Contract Forecast Date	FY 99 Total Cost Reques	FY 00 Qty	FY 00 Contract Forecast Date	FY 00 Total Cost Reques	FY 01 Qty	FY 01 Contract Forecast Date	FY 01 Total Cost Request
End Item Full Funding													2		
End Item Economic Order Quantity Advance Procurement													6		
Plans															
Basic (FY98 for FY99)					July-98	91.948									
Change Orders															
Electronics															
Propulsion															
HM&E															
Other Cost															
Ordnance (FY98 for FY99)					March-00	4.158									
Ordnance (FY01 for FY02)														December-00	2.300
Ordnance (FY01 for FY03)														December-00	9.200
Ordnance (FY01 for FY04)														December-00	9.200
Escalation															
Total AP						96.106									20.700
Description: FY98 Advance Procurement for FY99 Ship FY01 Rolling Airframe Missile System Multiyear Procurement															

Exhibit P-10, Advance Procurement Funding

CLASSIFICATION: UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION SHEET (P-40)</b> FY 2001 President Budget (\$M)	<b>DATE:</b> FEBRUARY 2000
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APPROPRIATION/BUDGET ACTIVITY									
BA # 5 Auxiliaries and Craft, SCN 5087 Oceanographic Vessels									
	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TO COMPLETE	TOTAL PROGRAM
QUANTITY	1	0	0	0	0	0	0	0	1
End Cost	75.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.3
Less Advance Procurement	15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.6
Less Escalation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Full Funding TOA	59.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.7
Plus Advance Procurement	15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.6
Total Obligational Authority	75.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.3
Plus Outfitting and Post Delivery	1.8	1.4	1.9	2.2	0.1	0.0	0.0	4.4	11.8
Plus Escalation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>77.1</b>	<b>1.4</b>	<b>1.9</b>	<b>2.2</b>	<b>0.1</b>	<b>0.0</b>	<b>0.0</b>	<b>4.4</b>	<b>87.1</b>
Unit Cost (Ave. End Cost)	75.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.3

**MISSION:**  
 To conduct ocean surveys and provide essential geophysical (Bathymetric, Gravity, and Geomagnetic) and Scientific Data.

<b>Characteristics:</b>	<b>Production Status:</b>	T-AGS 65
<b>Hull</b>	<b>Contract Plans</b>	FFP (OPTION)
Length overall            330 feet	Award Planned (Month)	Nov-98
Beam                            58 feet	Months to Complete	
Displacement                4650 tons	a) Award to Delivery	36 months
Draft                            18 feet	b) Const Start to Delivery	30 months
	Commissioning Date	TBD
	Completion of	
	Fitting-Out	Mar-02
<b>Armament:</b> N/A	<b>Major Electronics:</b> N/A	
	Mission Payload	
	Navigation Radars	Commercial
	SATNAV	Commercial
	Fathometer	Commercial
	Communication System	Commercial

UNCLASSIFIED  
CLASSIFICATION

P-5 EXHIBIT  
FY 2001 PRESIDENT BUDGET  
FEBRUARY 2000

APPROPRIATION: SHIPBUILDING AND  
CONVERSION, NAVY

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

BUDGET ACTIVITY: 5  
AUXILIARIES AND CRAFT

P-1 ITEM NOMENCLATURE:  
TAGS 60 CLASS

SUBHEAD: FY 97 8597/8599  
FY 99 2597/2599

ELEMENT OF COST	FY 1997		FY 1999	
	QTY	TOT COST	QTY	TOT COST
PLAN COSTS	1	0	1	0
BASIC CONST/CONVERSION		51,686		53,707
CHANGE ORDERS		2,701		2,800
ELECTRONICS		10,620		12,852
PROPULSION EQUIPMENT		0		0
HM&E		2,567		4,100
OTHER COST		787		1,875
ORDNANCE		0		0
ESCALATION		0		0
TOTAL SHIP ESTIMATE		68,361		75,334
ADVANCE PROCURMENT		15,419		15,595 *
NET P-1 LINE ITEM		52,942		59,739

UNCLASSIFIED

UNCLASSIFIED  
CLASSIFICATION

SHIPBUILDING AND CONVERSION, NAVY  
SHIP PRODUCTION SCHEDULE

P-27 EXHIBIT  
FY 2001 PRESIDENT BUDGET  
FEBRUARY 2000

SHIP TYPE	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD (OPTIONS)	START OF CONSTRUCTION	DELIVERY DATE
TAGS 64	HALTER	97	Jan-97	Jun-97	Jan-00
TAGS 65	HALTER	99	Nov-98	May-99	Dec-01

CLASSIFICATION: UNCLASSIFIED

**BUDGET ITEM JUSTIFICATION SHEET (P-40)  
FY 2001 PRESIDENT BUDGET**

**DATE:**  
**FEBRUARY 2000**

APPROPRIATION/BUDGET ACTIVITY BA # 5 Auxiliaries and Craft								P-1 ITEM NOMENCLATURE 5088 - T-ADC(X)	
	PRIOR YEAR	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TO COMPLETE	TOTAL PROGRAM
QUANTITY	0	1	1	3	3	2	2	0	12
End Cost	0.0	438.8	339.0	988.7	919.7	631.0	646.9	0.0	3,964.1
Less Advance Procurement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Less Escalation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Full Funding TOA	0.0	438.8	339.0	988.7	919.7	631.0	646.9	0.0	3,964.1
Plus Advance Procurement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Obligational Authority	0.0	438.8	339.0	988.7	919.7	631.0	646.9	0.0	3,964.1
Plus Outfitting and Post Delivery	0.0	0.0	0.0	0.9	51.1	56.3	79.6	601.9	789.8
Plus Escalation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.0	438.8	339.0	989.6	970.8	687.3	726.5	601.9	4,753.9
Unit Cost (Ave. End Cost)	0.0	438.8	339.0	329.6	306.6	315.5	323.4	0.0	330.3

**MISSION:**  
T-ADC(X) stands for Auxiliary Dry Cargo Carrier and is a new U.S. Navy Ship acquisition program. The T-ADC(X) will replace the aging fleet of refrigerated cargo and food stores ships (designated AFS Class) and ammunition ships (designated AE Class) in the Navy's Combat Logistics Force (CLF). The primary mission of the T-ADC(X) is to provide a steady stream of ammunition, spare parts and provisions (dry, refrigerated and frozen) to naval forces at sea in its role as a shuttle ship.

<b>Characteristics:</b>	<b><u>T-ADC(X) POINT DESIGN</u></b>	<b><u>Production Status</u></b>	<b><u>T-ADC(X) 0201</u></b>
<b><u>Hull</u></b>		<b><u>Contract Plans</u></b>	
Length overall	689 FT	Award Planned (Month)	FEB 01
Beam	106 FT	Months to Complete	
Displacement	35,374 LT	a) Award to Delivery	41
Draft	29.5 FT	b) Construction Start to Delivery	36
		Commissioning Date	TBD
		Completion of Fitting-Out	NOV 04

**Armament:** TBD

<b><u>Major Electronics:</u></b>	
HF/UHF/VHF Systems	SWAN/LAN
HSFB	ADNS
INMARSAT	DMS
GPS	INTEGRATED BRIDGE CONTROL SYSTEM
GMDSS	MACHINERY CONTROL SYSTEM
IFF	
SNAP	

UNCLASSIFIED  
CLASSIFICATION

P-5 EXHIBIT  
FY 2001 PRESIDENT BUDGET  
FEBRUARY 2000

APPROPRIATION: SHIPBUILDING AND  
CONVERSION, NAVY

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

BUDGET ACTIVITY: 5 AUXILIARIES AND CRAFT

P-1 ITEM NOMENCLATURE: T-ADC(X)

SUBHEAD: 2523

ELEMENT OF COST	FY 2000		FY 2001	
	QTY	TOT COST	QTY	TOT COST
PLAN COSTS	1	54,063	1	8,700
BASIC CONST/CONVERSION		311,680		278,500
CHANGE ORDERS		27,900		13,200
ELECTRONICS		3,243		3,500
PROPULSION EQUIPMENT		0		0
HM&E		16,197		11,700
OTHER COST		7,749		7,311
ORDNANCE		449		440
ESCALATION		17,550		15,600
TOTAL SHIP ESTIMATE		438,831		338,951
NET P-1 LINE ITEM		438,831		338,951

UNCLASSIFIED  
CLASSIFICATION

EXHIBIT P-27  
FY 2001 PRESIDENT BUDGET  
FEBRUARY 2000

SHIPBUILDING AND CONVERSION, NAVY  
SHIP PRODUCTION SCHEDULE

SHIP TYPE	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
T-ADC(X) 0001	TBD	2000	Sep-00	Jun-01	Aug-04
T-ADC(X) 0201	TBD	2001	Feb-01	Jul-01	Sep-04

UNCLASSIFIED  
CLASSIFICATION

P-5 EXHIBIT  
FY 2001 PRESIDENT'S BUDGET  
FEBRUARY 2000

APPROPRIATION: SHIPBUILDING AND  
CONVERSION, NAVY

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

BUDGET ACTIVITY: 5  
AUXILIARIES AND CRAFT

P-1 ITEM NOMENCLATURE: LCAC  
LANDING CRAFT AIR CUSHION

SUBHEAD: 8576/2576  
(FF)

ELEMENT OF COST	QTY	FY 1992		FY 1999	
		TOT COST		TOT COST	
PLAN COSTS	19	0	1	0	0
BASIC CONST/CONVERSION		339,329		13,922	
CHANGE ORDERS		16,995		0	
ELECTRONICS		3,299		484	
PROPULSION EQUIPMENT		0		0	
HM&E		24,290		5,439	
OTHER COST		23,189		8,330	
ORDNANCE		0		0	
ESCALATION		0		0	
TOTAL SHIP ESTIMATE		407,102		28,175	
LESS ADVANCE PROCUREMENT FY 91		23,200		0	
LESS ADVANCE PROCUREMENT FY 97		0		2,912	
LESS ADVANCE PROCUREMENT FY 98		0		9,495	
NET P-1 LINE ITEM		383,902		15,768	

UNCLASSIFIED

CLASSIFICATION

SHIPBUILDING AND CONVERSION, NAVY  
SHIP PRODUCTION SCHEDULE

EXHIBIT P-27  
FY 2001 PRESIDENT'S BUDGET  
SEPTEMBER 1999

SHIP TYPE	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION *	DELIVERY DATE
LCAC 91	Textron Marine Systems	1992	Jan-93	Dec-95	Mar-00
LCAC 25 SLEP	Textron Marine Systems	1999	Aug-99	Dec-99	Dec-01

\* DEFINED AS START OF HULL FABRICATION

CLASSIFICATION: UNCLASSIFIED

FY2001 President's Budget

APPROPRIATION/BUDGET ACTIVITY							P-1 ITEM NOMENCLATURE			
BA 5, Auxiliaries and Craft							POST DELIVERY/OUTFITTING/FIRST DESTINATION			
	PRIOR YEARS*	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TO COMPLETE	TOTAL PROGRAM
QUANTITY	0	0	0	0	0	0	0	0	0	0
End Cost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Less Advance Procurement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Less Escalation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Full Funding TOA-Outfitting	350.0	84.1	108.0	148.1	183.1	248.7	184.1	266.8	1,383.5	2,956.4
Full Funding TOA-Post Delivery**	462.2	126.6	60.4	150.7	103.9	169.2	159.2	224.1	1,535.5	2,991.8
Full Funding TOA-First Destination	12.6	2.2	2.3	2.3	2.3	2.5	2.7	2.9	2.5	32.3
Total Obligational Authority	824.8	212.9	170.7	301.1	289.3	420.4	346.0	493.8	2,921.5	5,980.5
Plus Outfitting and Post Delivery	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plus Escalation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	824.8	212.9	170.7	301.1	289.3	420.4	346.0	493.8	2,921.5	5,980.5
Unit Cost (Ave. End Cost)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**MISSION:**  
 Outfitting funds are used to acquire on board repair parts, other secondary items, equipment, 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). Beginning in FY98, the program also budgets for contractor-furnished spares, 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 builder sea trials; supports shipboard maintenance and therefore 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 and 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 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.

\* Prior Years back to FY95  
 \*\*Includes \$5.4M in FY 1999 based on the 1999 SCA, with funds provided in the FY 2000 Appropriation Act.

CLASSIFICATION: UNCLASSIFIED

**This list supports the FY01 Pres Submission**

**FY2001 President's Budget**

FY	Ship Class	Hull #	UIC	SPBID	Contract Award	Start of Constr.	DEL DATE	CFO	PSA START	PSA FINISH	PSA YARD	OWLD	Prior Year		FY99		FY00		FY01	
													OE	PD	OE	PD	OE	PD	OE	PD
89	SSN	21	21834	89350A	Jan-89	Oct-89	Jul-97	Jul-97	Aug-98	Nov-99	Electric Boat	Feb-00	11,256	27,298	661	23,335	182	0	0	0
91	SSN	22*	21859	91350A	May-91	Sep-92	Nov-98	Nov-98	Sep-99	Sep-00	Electric Boat	Mar-01	9,286	0	465	9,946	417	18,803	0	0
96	SSN	23	41718	96350B	Jun-96	Dec-95	Jun-04	Jun-04	Jun-04	Dec-04	Electric Boat	Mar-05	0	0	74	0	0	0	0	0
	Subtotal		<i>*Includes \$5.4M in FY 1999(FY00 Appropriation Act Transfer)</i>								PE 0204281N		20,542	27,298	1,200	33,281	599	18,803	0	0
99	VIRGINIA	775	23028	99450A	Sep-98	Aug-98	Jun-05	Jun-05	Jan-06	Dec-06	Newport News	Jan-07	0	0	0	0	0	140	0	0
88	CVN	75	21853	88392B	Jun-88	Apr-89	Jun-98	Aug-98	Mar-99	Aug-99	Newport News	Sep-99	44,421	0	3,669	21,256	0	0	0	0
95	CVN	76	22178	95392B	Dec-94	Jan-95	Dec-02	Feb-03	Jun-03	Oct-03	Newport News	Jan-04	0	0	0	0	2,077	0	22,872	0
	Subtotal										PE 0204112N		44,421	0	3,669	21,256	2,077	0	22,872	0
98	CVN-RCOH	68*	03368	98312B	Apr-98	May-98	Mar-01	May-01	Aug-01	Dec-01	Newport News	Apr-02	0	0	23,272	0	24,400	0	5,400	25,519
90	WAGB	20	21939	90373A	Jul-93	Mar-96	Nov-99	Jan-00	Aug-00	Nov-00	Avondale	Dec-00	0	0	0	182	0	2,493	0	0
											PE 0208017N									
92	DDG	72	21946	92400F	Apr-92	Feb-94	Aug-97	Jan-98	Aug-98	Nov-98	BIW	May-99	9,524	15,127	2	0	0	0	0	0
93	DDG	73	21947	93400F	Jan-93	May-94	Mar-98	Jul-98	Jan-99	Apr-99	SWM	Jun-99	8,571	5,945	196	5,004	0	0	0	0
93	DDG	74	21948	93400F	Jan-93	Aug-94	Feb-98	Apr-98	Oct-98	Dec-98	ISI	Mar-99	12,214	8,186	196	4,050	0	0	0	0
93	DDG	75	21949	93400F	Jan-93	Nov-94	Aug-98	Nov-98	Jun-99	Aug-99	BIW	Jun-00	9,501	2,435	353	13,900	0	0	0	0
93	DDG	76	21950	93400F	Jan-93	Feb-95	Jan-99	Mar-99	Sep-99	Dec-99	SWM	Feb-00	6,755	0	1,284	9,433	0	0	0	0
94	DDG	77	21951	94400F	Jul-94	Nov-95	May-99	Aug-99	Feb-00	Apr-00	PHNSY	Jul-00	1,115	0	3,197	5,642	190	16,300	0	0
94	DDG	78	21952	94400F	Jul-94	May-95	Jan-99	Mar-99	Aug-99	Nov-99	ISI	Feb-00	6,756	1,997	1,289	9,788	0	1,428	0	0
94	DDG	79	21953	94400F	Jul-94	Aug-96	May-00	Aug-00	Jan-01	Jul-01	BIW	Jul-01	1,128	0	5,540	0	3,025	6,482	198	16,010
95	DDG	80	21954	95400F	Jan-95	Nov-96	Jun-00	Sep-00	Feb-01	Jun-01	ISI	Aug-01	0	0	5,345	0	3,232	3,928	203	16,842
95	DDG	81	21955	95400F	Jan-95	Feb-97	Oct-00	Feb-01	Aug-01	Nov-01	BIW	Jan-02	0	0	6,818	0	3,163	2,347	356	16,447
95	DDG	82	21956	95400F	Jan-95	Jul-97	Feb-01	Mar-01	Sep-01	Dec-01	West Coast TBD	Feb-02	0	0	6,806	0	3,098	1,280	241	16,095
96	DDG	83	22999	96400F	Jun-96	Sep-97	Mar-01	Jul-01	Feb-02	May-02	West Coast TBD	Jun-02	0	0	1,574	0	8,211	0	389	6,263
96	DDG	84	22992	96400F	Jun-96	Mar-98	Aug-01	Oct-01	Apr-02	Jul-02	ISI	Sep-02	0	0	413	0	6,508	0	3,237	3,759
97	DDG	85	22993	97400H	Dec-96	May-98	Aug-01	Dec-01	Jul-02	Oct-02	TBD	Nov-02	0	0	0	0	11,076	0	7,465	9,909
97	DDG	86	22994	97400H	Dec-96	Nov-98	Feb-02	Apr-02	Sep-02	Dec-02	TBD	Mar-03	0	0	0	0	1,603	0	17,120	7,576
97	DDG	87	22995	97400H	Dec-96	Nov-98	Mar-02	Jul-02	Feb-03	May-03	BIW	Jun-03	0	0	0	0	1,603	0	12,674	7,576
97	DDG	88	22996	97400H	Dec-96	Jul-99	Sep-02	Nov-02	Apr-03	Jul-03	TBD	Oct-03	0	0	0	0	1,170	0	12,039	7,038
98	DDG	89	22997	98400J	Mar-98	Mar-00	Apr-03	Jun-03	Oct-03	Dec-03	TBD	May-04	0	0	0	0	0	0	11,263	0
98	DDG	90	23155	98400J	Mar-98	Apr-00	Apr-03	Jun-03	Jan-04	Apr-04	TBD	May-04	0	0	0	0	0	0	11,263	0
98	DDG	91	23145	98400J	Mar-98	Sep-00	Oct-03	Dec-03	Apr-04	Jun-04	TBD	Nov-04	0	0	0	0	0	0	1,193	0
98	DDG	92	23160	98400J	Mar-98	Dec-00	Dec-03	Feb-04	Sep-04	Nov-04	TBD	Jan-05	0	0	0	0	0	0	1,193	0
	Subtotal										PE 020422N		55,564	33,690	33,013	47,817	42,879	31,765	78,834	107,515
94	LHD	6	22202	94377A	Dec-92	Jul-94	May-98	Oct-98	May-99	Jul-99	NASSCO	Oct-99	12,999	1,420	2,997	11,822	0	0	0	0
96	LHD	7	23027	96377A	Dec-95	Sep-96	Apr-01	Aug-01	Apr-02	Jun-02	TBD	Jul-02	3,175	0	5,302	0	14,877	0	2,255	16,858
	Subtotal										PE 0204411N		16,174	1,420	8,299	11,822	14,877	0	2,255	16,858
93	LSD	52	21959	93377C	Oct-93	May-94	Feb-98	Apr-98	Oct-98	Jan-99	NASSCO	Jun-99	4,533	3,438	1,149	3,113	0	0	0	0
92	LCAC	91	22240	92377B	Jan-93	Dec-95	Mar-00	Mar-00	Mar-00	May-00	Coastal Syst Sta	Feb-01	0	0	0	500	0	0	0	0
99	LCACSLEP	25	40795	99377B	Aug-99	Dec-99	Dec-01	Dec-01	Dec-01	Feb-02	Coastal Syst Sta	Nov-02	0	0	0	0	0	0	56	0

<b>This list supports the FY01 Pres Submission</b>													<b>FY2001 President's Budget</b>							
FY	Ship Class	Hull #	UIC	SPBID	Contract Award	Start of Constr.	DEL DATE	CFO	PSA START	PSA FINISH	PSA YARD	OWLD	Prior Year		FY99		FY00		FY01	
													OE	PD	OE	PD	OE	PD	OE	PD
96	LPD	17	07207	96317A	Dec-96	Apr-00	Sep-03	Nov-03	Mar-05	Jun-05	TBD	Oct-04	0	0	0	0	9,516	0	9,494	0
99	LPD	18	23168	99317B	Dec-98	Feb-01	May-04	Jul-04	Jan-05	Apr-05	TBD	Jun-05	0	0	0	0	2,673	0	8,176	0
00	LPD	19	TBD	TBD	Dec-99	Sep-01	Mar-05	May-05	Nov-05	Feb-06	TBD	Apr-06	0	0	0	0	0	0	2,725	0
00	LPD	20	TBD	TBD	Feb-00	Aug-01	Feb-05	Apr-05	Oct-05	Jan-06	TBD	Mar-06	0	0	0	0	0	0	3,407	0
01	LPD	21	TBD	TBD	Feb-00	Dec-01	Jun-05	Aug-05	Feb-06	May-06	TBD	Jul-06	0	0	0	0	0	0	2,725	0
Subtotal											PE 0204411N	0	0	0	0	12,189	0	26,527	0	
91	MHC	56	21961	91303B	Mar-91	Mar-92	Jul-96	Oct-96	Jul-97	Oct-97	S TX Ship Repair	May-99	0	1,750	0	416	0	0	0	0
91	MHC	57	21962	91303B	Mar-91	Apr-92	Jan-97	Mar-97	Mar-98	May-98	Gulf Copper	Aug-99	4,034	1,328	0	184	0	0	0	0
92	MHC	59	22151	92303B	Apr-92	Apr-93	Oct-96	Jan-97	Nov-97	Feb-98	S TX Ship Repair	Apr-99	4,928	1,188	0	0	0	0	0	0
92	MHC	60	22152	92303B	Apr-92	Feb-94	Jul-97	Sep-97	Jun-99	Aug-99	Gulf Copper	Sep-99	5,088	1,764	0	150	0	0	0	0
93	MHC	61	22179	93303B	Mar-93	Jan-95	Apr-98	Jun-98	Jul-99	Oct-99	S TX Ship Repair	Nov-99	5,923	150	604	489	0	0	0	0
93	MHC	62	22180	93303B	Mar-93	Jul-95	Jan-99	Mar-99	Feb-00	May-00	TBD	Jun-00	5,967	0	564	100	171	1,387	0	0
Subtotal											25,940	6,180	1,168	1,339	171	1,387	0	0		
96	AE(C)	35	20245	96335B	Sep-97	Oct-97	Oct-98	Mar-99	Oct-98	Nov-98	SW Marine	Feb-00	322	0	562	2,200	0	0	0	0
97	AE(C)	34	20115	97325C	Apr-97	May-97	Jun-98	Aug-98	Jul-98	Aug-98	Moon Engineering	Jul-99	2,324	2,094	0	0	0	0	0	0
Subtotal											2,646	2,094	562	2,200	0	0	0	0		
93	AOE	10	21979	92383B	Jan-93	Sep-93	Apr-98	Jul-98	Jan-99	May-99	TODD Pacific Shyd	Jun-99	8,417	1,415	1,042	3,834	0	0	0	0
90	TAGOS	23	21906	90383A	Mar-91	Mar-92	Jul-00	Jan-01	Sep-01	Nov-01	TBD	Dec-01	2,213	0	55	14	0	4,670	363	0
94	TAGS	63	22266	94325A	Oct-94	Jan-95	Feb-98	May-98	Feb-99	Mar-99	Dentyn SHYD	Apr-99	1,172	745	116	1,048	0	0	0	0
97	TAGS	64	23131	97325C	Jan-97	Jun-97	Jan-00	Apr-00	Jan-01	Feb-01	TBD	Mar-01	0	0	677	8	309	988	73	808
99	TAGS	65	23167	99325D	Dec-98	Mar-99	Dec-01	Mar-02	Dec-02	Jan-03	TBD	Feb-03	0	0	0	0	1,092	0	1,018	0
Subtotal											1,172	745	793	1,056	1,401	988	1,091	808		
94	YDT	17	22265	94325B	Jun-97	Dec-97	Feb-99	Apr-99	N/A	N/A	N/A	Mar-00	0	0	45	114	0	0	0	0
95	YDT	18	23001	95325A	Jun-97	Apr-98	May-99	Jun-99	N/A	N/A	N/A	May-00	0	0	45	113	0	0	0	0
98	APL	65	23157	98325C	Aug-98	Nov-98	Nov-00	Jan-01	N/A	N/A	N/A	Dec-01	0	0	0	0	0	95	369	0
98	APL	66	23158	98325D	Aug-98	Sep-98	Jan-01	Mar-01	N/A	N/A	N/A	Feb-02	0	0	0	0	0	84	369	0
Subtotal											0	0	90	227	0	179	738	0		
PUBS											PE 0502413N	11,132		9,745		9,366		9,938		
TOTAL OF and PD												192,754	76,280	84,057	126,641	107,959	60,425	148,074	150,700	
FDT											PE 0708009N	2,703		2,247		2,293		2,303		
TOTAL OF/PD/FDT by FY												271,737		212,945		170,677		301,077		

CLASSIFICATION: UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET (P-40) FY 2001 PRESIDENT'S BUDGET (\$M)						DATE: FEBRUARY 2000				
APPROPRIATION/BUDGET ACTIVITY BA 5 AMPHIBIOUS SHIPS				P-1 ITEM NOMENCLATURE: LCAC SLEP LANDING CRAFT AIR CUSHION						
	PRIOR YEARS	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TO COMPLETE	TOTAL PROGRAM
QUANTITY	0	0	2	1	2	3	3	4	58	73
End Cost	0.0	0.0	31.7	15.6	30.6	40.1	40.9	49.2	589.5	797.6
Less Advance Procurement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Less Cost to Complete	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Less Escalation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Full Funding TOA	0.0	0.0	31.7	15.6	30.6	40.1	40.9	49.2	589.5	797.6
Plus Advance Procurement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plus Cost to Complete	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Obligational Authority	0.0	0.0	31.7	15.6	30.6	40.1	40.9	49.2	589.5	797.6
Plus Outfitting and Post Delivery	0.0	0.0	0.0	0.1	1.5	1.1	1.4	1.9	46.6	52.6
Plus Escalation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.0	0.0	31.7	15.7	32.1	41.2	42.3	51.1	636.1	850.2
Unit Cost (Ave. End Cost)	0.0	0.0	15.9	15.6	15.3	13.4	13.6	12.3	10.2	10.9

**MISSION:** LCAC is for transporting from ship to shore and across the beach, weapon systems, equipment, and cargo to personnel of the assault elements of the Marine Air/Ground Task Force.

The LCAC Service Life Extension Program (SLEP), Phase II, extends the craft service life from the current service life of twenty years to thirty years. The program replaces the current buoyancy box with a new buoyancy box with the latest configuration. In addition the hull will have four significant enhancements: 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) an advanced skirt to reduce the cost of ownership and improve performance. SLEP Phase II will also include the C4N upgrade in the early years of the program.

**Characteristics: (no change in overall craft dimensions)**

**Hull**

Length overall	88ft
Beam	47ft
Displacement	150 tons
Draft	None (rides on cushion of air)

**Armament:**

None

DD Form 2454, JUL 88

UNCLASSIFIED  
 CLASSIFICATION

P-5 EXHIBIT  
 FY 2001 PRESIDENT'S BUDGET  
 FEBRUARY 2000

APPROPRIATION: SHIPBUILDING AND  
 CONVERSION, NAVY

BUDGET ACTIVITY: 5		SUBHEAD: 2576							
AUXILIARIES AND CRAFT		LANDING CRAFT AIR ' LANDING CRAFT AIR CUSHION							
ELEMENT OF COST	FY 2002		FY 2003		FY 2004		FY 2005		
	QTY	TOT COST	QTY	TOT COST	QTY	TOT COST	QTY	TOT COST	
PLAN COSTS	2	0	3	0	3	0	4	0	
BASIC CONST/CONVERSION		25,190		34,448		35,285		42,940	
CHANGE ORDERS		620		920		940		1,270	
ELECTRONICS		460		710		720		990	
PROPULSION EQUIPMENT		0		0		0		0	
HM&E		1,253		785		767		812	
OTHER COST		3,120		3,199		3,223		3,168	
ORDNANCE		0		0		0		0	
ESCALATION		0		0		0		0	
TOTAL SHIP ESTIMATE		30,643		40,062		40,935		49,180	
ADVANCE PROCUREMENT		0		0		0		0	
NET P-1 LINE ITEM		30,643		40,062		40,935		49,180	

UNCLASSIFIED

CLASSIFICATION

SHIPBUILDING AND CONVERSION, NAVY  
SHIP PRODUCTION SCHEDULE

EXHIBIT P-27  
FY 2001 PRESIDENT'S BUDGET  
FEBRUARY 2000

SHIP TYPE	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
LCAC	TM&LS	2002	Dec-01	Feb-02	Nov-03
LCAC	TM&LS	2003	Dec-02	Apr-03	Oct-04
LCAC	TM&LS	2004	Dec-03	Apr-04	Oct-05
LCAC	TM&LS	2005	Dec-04	Apr-05	Sep-06

CLASSIFICATION: UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET (P-40)									DATE: February 2000		
FY 2001 PRESIDENT'S BUDGET (\$M)											
APPROPRIATION/BUDGET ACTIVITY							P-1 ITEM NOMENCLATURE				
Shipbuilding, Conversion, Navy BA 5							SCN BLI 530000				
							Completion of Prior Year Shipbuilding Programs/Item #20				
	PRIOR YEARS	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005		TO COMPLETE	TOTAL PROGRAM
Cost To Complete				263.0	331.0	210.0	26.0	28.0			858.0
CVN				87.0							
DDG 51				17.0	67.0	19.0	26.0	28.0			
Virginia Class				119.0	180.0	30.0					
LPD 17				40.0	84.0	161.0					
Total	0.0	0.0	0.0	263.0	331.0	210.0	26.0	28.0		0.0	858.0

**Completion of Prior Year Shipbuilding Programs**  
 The Completion of Prior Year Shipbuilding Programs is a new SCN line with funding initiating in FY2001. The purpose of this program is to recognize and fund cost increases of prior year shipbuilding efforts. Typically these costs would be addressed during the Department's annual Ship Cost Adjustment (SCA). However, due to tighter ship estimating and decreased shipbuilding quantities in the prior years the Navy's ability and opportunity to "self-finance" SCAs within the SCN or other TOA no longer exist. Accordingly, this line, in conjunction with the SCA, will ensure the Navy's prior year shipbuilding programs are fully funded. Within this program, funds are budgeted by ship class and the fiscal year in which funds are required for execution.

**Virginia Class Submarine:**  
 The Virginia Class submarine program has budgeted \$329M in the "completion of prior year shipbuilding programs" funding line. These funds are necessary for completion of prior year programs currently under execution, FY 98 to FY 99 SSN 774 class ships. This budget item funds the requirements for the SSN 774 program Design Build Team effort, increased cost for electronic components, increases in Marine Drafters Association rates, NNS strike settlement. and to payback an above threshold reprogramming associated with NNS strike and completion of the CVN 68 RCOH, \$87.5M in FY 98.

**LPD 17:**  
 The LPD 17 program has budgeted \$285M in the "completion of prior year shipbuilding programs" funding line. These funds are necessary for completion of prior year programs currently under execution, FY 96 to FY 00 LPD 17 class ships. This budget item funds the requirements for LPD 17 program associated with lead ship schedule delays, increased overhead rates, increase costs for design, increase cost associated with contract protest, and increases associated with government furnished equipment costs.

**DDG 51:**  
 The DDG-51 program has budgeted \$157M in the "completion of prior year shipbuilding programs" funding line. These funds are necessary for completion of prior year programs currently under execution, FY 95 to FY 00 DDG-51 class ships. This budget item funds the requirement for DDG -51 program repricing and new scope requirements as follows: Reprice items include Cooperative Engagement Capability (CEC) (FY 98), Linear Search Track Processor (LSTP) (FY 98-00) and AEGIS Baseline 7, Phase I Training equipment (FY 98). New scope items include Self-Contained Breathing Apparatus (SCBA) (FY 95-00), unclassified/classified LAN (IT-21) (FY 95-00), integrated bridge system (IBS) (FY96-00), NULKA (MK-53) (FY98-00), and the Consolidated Antenna System (FY 95-00).

**CVN:**  
 The CVN Replacement program has budgeted \$87M in the "completion of prior year shipbuilding programs" funding line. These funds are necessary for completion of prior year programs currently under execution (CVN 76). This budget item provides \$87.1M to CVN 76 to fund NNS strike related cost growth (\$55.1M) and overhead increases (\$32M).