

DEPARTMENT OF THE NAVY
FY 1998/1999 BUDGET ESTIMATES



JUSTIFICATION OF ESTIMATES

WEAPONS PROCUREMENT, NAVY
BUDGET ACTIVITY 3

FEBRUARY 1997

UNCLASSIFIED

EXHIBIT P-1

DEPARTMENT OF THE NAVY
FY 1998/1999 PROCUREMENT PROGRAM

APROPRIATION: 1507N Weapons Procurement, Navy

DATE: 02/04/97

LINE NO	ITEM NOMENCLATURE	IDENT CODE	DOLLARS			MILLIONS OF DOLLARS				
			FY1998 UNIT COST	----- FY 1996 ----- QUANTITY	----- FY 1997 ----- COST	----- FY 1998 ----- QUANTITY	----- FY 1999 ----- COST	----- FY 1999 ----- QUANTITY	----- COST	
BUDGET ACTIVITY 03: Torpedoes and Related Equipment										
Torpedoes And Related Equipment										
24	3141 ASW Targets	A			0.6	4.9		0.7		5.8 U
25	3145 Vertical Launched ASROC (VLA)	B		13	9.8	12.7		-		- U
Mod Of Torpedoes And Related Equip										
26	3215 MK-46 Torpedo Mods	A			3.5	1.7		0.3		21.3 U
27	3225 MK-48 Torpedo ADCAP Mods				59.6	62.1		55.4		57.1 U
Support Equipment										
28	3301 Torpedo Support Equipment	A			30.5	22.1		25.5		25.6 U
29	3302 ASW Range Support	A			17.6	14.5		11.8		14.6 U
Destination Transportation										
30	2410 First Destination Transportat	A			3.9	2.6		2.0		2.0 U
TOTAL Torpedoes and Related Equipment						125.6	120.6	95.7		126.3

Weapons Procurement, Navy
Program and Financing (in Thousands of dollars) SUMMARY

Identification code	17-1507-0-1-051	Budget Plan (amounts for PROCUREMENT actions programed)			
		1996 actual	1997 est.	1998 est.	1999 est.

Program by activities:					
Direct program:					
00.0101	Ballistic missiles	508,776	316,332	341,412	319,657
00.0201	Other missiles	802,532	844,202	612,993	910,722
00.0301	Torpedoes and related equipment	125,607	120,594	95,715	126,284
00.0401	Other weapons	41,615	30,815	59,230	26,648
00.0501	Other Ordnance				
00.0601	Spares and repair parts	62,167	46,490	26,943	52,429
		-----	-----	-----	-----
00.9101	Total direct program	1,540,697	1,358,433	1,136,293	1,435,740
01.0101	Reimbursable program	641	74,800	74,800	74,800
		-----	-----	-----	-----
10.0001	Total	1,541,338	1,433,233	1,211,093	1,510,540

Financing:					
Offsetting collections from:					
11.0001	Federal funds(-)	-541	-74,800	-74,800	-74,800
14.0001	Non-Federal sources(-)	-100			
17.0001	Recovery of prior year obligations				
Unobligated balance available, start of year:					
21.4002	For completion of prior year budget plans				
21.4003	Available to finance new budget plans	-68,963			
21.4009	Reprogramming from/to prior year budget plans	-19,781			
22.1001	Unobligated balance transferred to other accounts	2,500			
Unobligated balance available, end of year:					
24.4002	For completion of prior year budget plans				
25.0001	Unobligated balance expiring	9,093			
		-----	-----	-----	-----
39.0001	Budget authority	1,463,546	1,358,433	1,136,293	1,435,740

Budget authority:					
40.0001	Appropriation	1,641,505	1,389,913	1,136,293	1,435,740
40.3601	Appropriation rescinded (unob bal)	-14,600			
40.7501	Reduction pursuant to P.L. 104-208 (-), 8037(h)		-3,682		
41.0001	Transferred to other accounts (-)	-193,177	-27,798		
42.0001	Transferred from other accounts	29,818			
		-----	-----	-----	-----
43.0001	Appropriation (adjusted)	1,463,546	1,358,433	1,136,293	1,435,740

Weapons Procurement, Navy
Program and Financing (in Thousands of dollars) SUMMARY

		Obligations			
Identification code	17-1507-0-1-051	1996 actual	1997 est.	1998 est.	1999 est.

Program by activities:					
Direct program:					
00.0101	Ballistic missiles	542,059	358,595	327,492	322,687
00.0201	Other missiles	954,331	889,447	602,197	861,404
00.0301	Torpedoes and related equipment	125,800	121,852	116,946	121,301
00.0401	Other weapons	48,218	29,431	50,823	31,828
00.0501	Other Ordnance	13,358			
00.0601	Spares and repair parts	58,629	47,853	48,022	48,191
		-----	-----	-----	-----
00.9101	Total direct program	1,742,395	1,447,178	1,145,480	1,385,411
01.0101	Reimbursable program	663	74,925	74,800	74,800
		-----	-----	-----	-----
10.0001	Total	1,743,058	1,522,103	1,220,280	1,460,211

Financing:					
Offsetting collections from:					
11.0001	Federal funds(-)	303	-74,800	-74,800	-74,800
14.0001	Non-Federal sources(-)	14,344			
17.0001	Recovery of prior year obligations	-3,074			
Unobligated balance available, start of year:					
21.4002	For completion of prior year budget plans	-698,539	-464,823	-375,953	-366,766
21.4003	Available to finance new budget plans	-68,963			
21.4009	Reprogramming from/to prior year budget plans				
22.1001	Unobligated balance transferred to other accounts	2,500			
Unobligated balance available, end of year:					
24.4002	For completion of prior year budget plans	464,823	375,953	366,766	417,095
25.0001	Unobligated balance expiring	9,093			
		-----	-----	-----	-----
39.0001	Budget authority	1,463,546	1,358,433	1,136,293	1,435,740

Budget authority:					
40.0001	Appropriation	1,641,505	1,389,913	1,136,293	1,435,740
40.3601	Appropriation rescinded (unob bal)	-14,600			
40.7501	Reduction pursuant to P.L. 104-208 (-), 8037(h)		-3,682		
41.0001	Transferred to other accounts (-)	-193,177	-27,798		
42.0001	Transferred from other accounts	29,818			
		-----	-----	-----	-----
43.0001	Appropriation (adjusted)	1,463,546	1,358,433	1,136,293	1,435,740

Weapons Procurement, Navy
 Program and Financing (in Thousands of dollars) SUMMARY

		Obligations			
Identification code	17-1507-0-1-051	1996 actual	1997 est.	1998 est.	1999 est.

Relation of obligations to outlays:					
71.0001	Obligations incurred	1,757,705	1,447,303	1,145,480	1,385,411
72.1001	Orders on hand, SOY	-80,181	-37,434	-37,434	-37,434
72.4001	Obligated balance, start of year	4,183,692	3,286,784	2,668,165	2,198,465
74.1001	Orders on hand, EOY	37,434	37,434	37,434	37,434
74.4001	Obligated balance, end of year	-3,286,784	-2,668,165	-2,198,465	-2,141,609
77.0001	Adjustments in expired accounts (net)	12,874			
78.0001	Adjustments in unexpired accounts	-3,074			

90.0001	Outlays (net)	2,621,666	2,065,922	1,615,180	1,442,267

Weapons Procurement, Navy
Object Classification (in Thousands of dollars) SUMMARY

Identification code	17-1507-0-1-051	1996 actual	1997 est.	1998 est.	1999 est.

Direct obligations:					
125.101	Advisory and assistance services	35,154	26,777	22,185	25,915
	Purchases goods/services (inter/intra) Fed accounts				
125.303	Purchases from revolving funds	105,464	90,331	76,554	87,745
126.001	Supplies and materials	72,491	95,265	61,702	94,453
131.001	Equipment	1,529,286	1,234,805	985,039	1,177,298
		-----	-----	-----	-----
199.001	Total Direct obligations	1,742,395	1,447,178	1,145,480	1,385,411
Reimbursable obligations:					
226.001	Supplies and materials		20,768	21,262	21,900
231.001	Equipment	663	54,157	53,538	52,900
		-----	-----	-----	-----
299.001	Total Reimbursable obligations	663	74,925	74,800	74,800
		-----	-----	-----	-----
999.901	Total obligations	1,743,058	1,522,103	1,220,280	1,460,211
		-----	-----	-----	-----

Comparison of FY 1997 Program Requirements as Reflected
in the FY 1997 Budget with FY 1997 Program Requirements as
Shown in FY 1998 Budget (In Thousands of Dollars)

	FY 1997 Total Program Requirements <u>Per FY 1997 Budget</u>	FY 1997 Program Requirements <u>Per FY 1998 Budget</u>	Increase (+) or Decrease (-)
Ballistic Missiles	323,149	316,322	-6,817
Other Missiles	738,239	844,202	+105,963
Torpedoes and Related Equipment	110,682	120,594	+9,912
Other Weapons	31,467	30,815	-652
Ammunition	149,355	0*	-149,355
Spares and Repair Parts	47,471	46,490	-981
Subtotal Direct Program	1,400,363	1,358,433	-41,930
Reimbursable	74,800	74,800	-
Total Fiscal Year	1,475,163	1,433,233	-41,930

*Funding appropriated in the Procurement Ammunition, Navy & Marine Corps appropriation.

Explanation of Changes in FY 1997 Program Requirements

1. Ballistic Missiles (-\$6.8 million)
Decrease reflects undistributed Congressional reductions.

2. Other Missiles (+\$106.0 million)
The overall funding increase reflects the net of undistributed Congressional reductions (-\$19.9 million) and reduced funding for Ordnance Support Equipment (-\$4.6M) offset by Congressional increases for additional Standard Missiles (+\$22.5 million), Tomahawk (+\$11.5 million), AMRAAM (+\$21.9 million), JSOW (+\$15.6 million, Penguin (+\$7 million), Drones and Decoys (+\$17.5 million), Tomahawk modifications (+\$14.4 million), and Harpoon/SLAM (+\$20.1 million).

3. Torpedoes and Related Equipment (+\$9.9 million)
Changes include Congressional undistributed reductions (-\$3.1 million) and additional funding provided by Congress for the Vertical Launch ASROC program (+\$13 million).

4. Other Weapons (-\$0.7 million)
Changes reflect adjustments for Congressional undistributed reductions.

5. Ammunition (-149.4 million)
The FY 1997 President's Budget reflected \$149.355 million for Navy ammunition procurement in the Weapons Procurement, Navy (WPN) appropriation. The Congress transferred this amount to the Procurement of Ammunition, Navy & Marine Corps (PANMC) appropriation. FY 1998 and out funding is now reflected in this appropriation.

6. Spares & Repair Parts (\$-1.0 million)
This funding reduction is due to an undistributed Congressional reduction.

Comparison of FY 1997 Financing as Reflected in the FY 1997 Budget
with FY 1997 Financing as Shown in FY 1998 Budget
(In Thousands of Dollars)

	<u>FY 1997 Financing Per FY 1997 Budget</u>	<u>FY 1997 Financing Per FY 1998 Budget</u>	<u>Increase (+) Decrease (-)</u>
Program Requirements (Total)	1,475,163	1,433,233	-41,930
Program Requirements (Direct)	(1,400,363)	(1,358,433)	(-41,930)
Program Requirements (Reimb)	(74,800)	(74,800)	-
Less:			
Anticipated Reimbursements	74,800	74,800	-
Add:			
Unob bal avail, start of year to finance new budget plans			
Unob bal avail, end of year to finance subseq yr budget plans			
Reprog, prior year budget			
Appropriation Adjusted	1,400,363	1,358,433	-41,930
Budget Authority:			
FY 1997 DoD Appropriations Act	1,400,363	1,389,913	-10,450
Appropriation rescinded			
Reduct Pursuant to P. L. 104-208		-3,682	-3,682
Transferred to other accounts		-27,798	-27,798
Appropriation (Adjusted)	1,400,363	1,358,433	-41,930

Explanation of Changes in Financing

The FY 1997 Weapons Procurement, Navy appropriation financing (\$1,358.4 million for direct and \$74.8 million for reimbursable) was subsumed within the WPN appropriations' Programming and Financing exhibits. The \$41.9 million change in program requirements is the result of Congressional reductions (-\$10.5 million), and Sect. 8037(h) (-\$2,376 thousand), and Sect. 8120 (-\$27,798 thousand) and Sect. 8138 (-\$1,306 thousand) adjustments.

Comparison of FY 1996 Program Requirements as Reflected
in the FY 1997 Budget with FY 1996 Program
Requirements as Shown in FY 1998 Budget (In Thousands of Dollars)

	FY 1996 Total Program Requirements <u>Per FY 1997 Budget</u>	FY 1996 Total Progr Requirements <u>Per FY 1998 Budget</u>	Increase(+) or Decrease (-)
Ballistic Missiles	505,431	508,776	+3,345
Other Missiles	814,857	802,532	-12,325
Torpedoes and Related Equipment	124,934	125,607	+673
Other Weapons	42,155	41,615	-540
Ammunition	*	*	-
Spares and Repair Parts	61,323	62,167	+844
Subtotal Direct Program	1,548,700	1,540,697	-8,003
Reimbursable	74,800	641	-73,159
Total Fiscal Year	1,623,500	1,541,338	-82,162

*Funding appropriated in the Procurement Ammunition, Navy and Marine Corps appropriation.

Explanation of Changes in FY 1996 Program Requirements

1. Ballistic Missiles (+\$3.3 million)
Increase reflects minor year of execution adjustments.

2. Other Missiles (-\$12.3 million)
Decrease reflects minor programmatic execution adjustments (-\$11.5 million) and Omnibus Reprogramming action (-\$.8 million).

3. Torpedoes and Related Equipment (+\$0.7 million)
Change reflects minor funding updates.

4. Other Weapons (-\$0.5 million)
Change reflects minor year of execution adjustments.

5. Ammunition
Funding realigned to the Procurement Ammunition, Navy & Marine Corps appropriation.

6. Spares & Repair Parts (+\$0.8 million)
Change reflects minor adjustments to reflect year of execution issues.

Comparison of FY 1996 Financing as Reflected in the FY 1997 Budget
with FY 1996 Financing as Shown in FY 1998 Budget
(In Thousands of Dollars)

	<u>FY 1996 Financing Per FY 1997 Budget</u>	<u>FY 1996 Financing Per FY 1998 Budget</u>	<u>Increase (+) Decrease (-)</u>
Program Requirements (Total)	1,623,500	1,541,338	-82,162
Program Requirements (Direct)	(1,548,700)	(1,540,697)	(-8,003)
Program Requirements (Reimb)	(74,800)	(641)	(-73,159)
Less:			
Anticipated Reimbursements	74,800	641	-73,159
Add:			
Unob bal avail, start of year to finance new budget plans:	-64,963	-68,963	-4,000
Unob bal transf to other accts	2,500	2,500	-
Reprogramming from/to prior year budget plans	-	-19,781	-19,781
Appropriation Adjusted	1,486,237	1,463,546	-22,691
Budget Authority:			
FY 1996 DoD Appropriations Act	1,656,193	1,641,505	-14,688
Appropriation rescinded	-14,600	-14,600	-
Transferred from other accts	29,818	29,818	-
Transferred to other accounts	-185,174	-193,177	-8,003
Appropriation (Adjusted)	1,486,237	1,463,546	-22,691

Explanation of Changes in Financing

The -\$22.7 million change in program financing is the result of the actual FY 1996 Congressional appropriation (-\$14.7 million) and transfers to other accounts (-\$8.0 million).

CLASSIFICATION: Unclassified

**WEAPONS PROCUREMENT, NAVY
BUDGET ITEM JUSTIFICATION SHEET (EXHIBIT P-40)**

DATE:
01 February 1997

BUDGET ACTIVITY:
BA-3: Torpedo and Related Equipment

P-1 ITEM NOMENCLATURE:
ASW Targets

LI # 314100
C3TG

	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Quantity								
Cost (In Millions)	0.6	4.9	0.7	5.8	6.3	7.5	19.3	19.2

ITEM DESCRIPTION/JUSTIFICATION

This line item funds three distinct systems: (a) MK39 Mod 0 EMATT (Cost Codes TG001, TG830, TG840, TG850, TG860 and TG900); (b) MK 39 Mod 1 (Cost Codes TG002, TG832, TG842, TG852, TG862, and TG902) ; (c) MK 30 Mod 2 (Cost Codes TG005, TG015, TG835, TG865, and TG905).

The MK 39 Mod 0 Expendable Mobile ASW Training Target (EMATT) is a small, self-propelled underwater vehicle launchable from fixed wing and rotary wing ASW aircraft, and ASW surface ships for the purpose of providing basic, open ocean sonar training and MK46 placement exercises. MK39 Mod 0 operation consists of a three hour dynamic run trajectory that is actively controlled in depth and course with pre-programmable run maneuvers. MK 39 Mod 0 is detectable and trackable by: passive towed arrays SQR-18 and SQR-19, and passive sonobouys SSQ-41 and SSQ-53; active sonars, SQS-23, 26, 35, 53, 56, SQQ-23 and SQS-13 and active sonobouys SSQ-50 and SSQ-62; and the MK46 torpedo operating in the active mode. The MK 39 Mod 0 EMATT is also capable of generating a magnetic field (anomaly) detectable by all current Navy Magnetic Anomaly Detectors (MAD). The FY1994 Defense Authorization Conference directed the Navy to provide Congressional Defense Committees a plan on how the current ASW target programs could be expanded to include supporting MK48 and MK50 torpedoes and shallow water ASW training operations. ASN(RDA) submitted the ASW Target Plan on June 15, 1994 to the various Congressional defense committees; funding has been included in this WPN line item for the procurement of the MK 39 Mod 1, which will support these expanded requirements through the award of a competitive contract to be awarded in the 3rd QTR FY 97. The MK 30 Mod 2 is the next generation fleet ASW training target for training the Navy surface ship, submarines and aircraft that will be capable of simulating the Russian and Rest of the World (ROW) submarine threats anticipated in the twenty-first century littoral warfare environment. Replacing the aging MK 30 Mod 1 target, MK30 Mod 2 will be a highly reliable and maintainable unmanned undersea vehicle simulating the dynamics, acoustics and magnetic signatures of submarines and act as a target for ASW sensors and torpedoes to detect, classify, track and pursue in a REALISTIC training environment. WPN funding will commence FY 01.

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P-1 SHOPPING LIST LINE ITEM NO.	PAGE NO.
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CLASSIFICATION: Unclassified

CLASSIFICATION: Unclassified

APPROPRIATION: Weapons Procurement, Navy	WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	DATE: 01 February 1997
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BUDGET ACTIVITY: BA-3: Torpedo and Related Equipment	P-1 ITEM NOMENCLATURE: ASW Targets - EMATT	SUBHEAD: C3TG
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COST CODE	ELEMENT OF COST	I/C	FY 1996		FY 1997		FY 1998		FY 1999	
			QTY	TOTAL COST						
TG002	MK39 Mod 1 - EMATT			\$0	1,040	\$4,160	0	\$0	1,120	\$4,592
TG800	Production Engineering (MK39 Mod 0)			\$639		\$0		\$0		\$0
TG832	Production Engineering (In-house)			\$0		\$541		\$238		\$760
TG842	Quality Assurance			\$0		\$46		\$103		\$100
TG852	Product Improvement			\$0		\$91		\$77		\$80
TG862	Acceptance T & E			\$0		\$109		\$135		\$139
TG902	Production Engineering (Contractor)			\$0		\$0		\$132		\$165
				\$639		\$4,947		\$685		\$5,836

P-1 SHOPPING LIST LINE ITEM NO.	PAGE NO.	CLASSIFICATION: Unclassified
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CLASSIFICATION: Unclassified

APPROPRIATION: Weapons Procurement, Navy	PROCUREMENT HISTORY & PLANNING (EXHIBIT P-5A)	DATE: 01 February 1997
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BUDGET ACTIVITY: BA-3: Torpedo and Related Equipment	P-1 ITEM NOMENCLATURE: ASW Targets	SUBHEAD: C3TG
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COST CODE	FISCAL YEAR ELEMENT OF COST	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW WHEN	ARE SPEC REVISIONS REQUIRED?	IF YES, WHEN AVAILABLE
FY 1995											
TG001	MK39 Mod 0 - EMATT/ECPs	SECHAN Lititz, PA	C/FFP - Option	NAVSEA	Jul-95	Mar-98	1,525	\$3,900	Yes	No	
FY 1997											
TG002	MK39 Mod 1 - EMATT/ECPs	Unknown	C/FFP	NAVSEA	Jun-97	Sep-98	1,040	\$4,160	Yes	No	
FY 1999											
TG002	MK39 Mod 1 - EMATT/ECPs	Unknown	C/FFP-Option	NAVSEA	Oct-98	Aug-99	1,120	\$4,592	Yes	No	

REMARKS:

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CLASSIFICATION: Unclassified

EXHIBIT P-20, REQUIREMENTS STUDY	APPROPRIATION: Weapons Procurement, Navy	BA-3: Torpedo and Related Equipme	DATE: 01 February 1997
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P-1 ITEM NOMENCLATURE: ASW Targets - EMATT	SUBHEAD: C3TG	Admin Leadtime (after Oct 1): 4	Prod Leadtime: 10
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	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary	0	1040	0	1120	1200	1180	1180	1190
Unit Cost	0	4	0	4.1	4.2	4.3	4.4	4.5
Total Cost	0	4160	0	4592	5040	5074	5192	5355
Asset Dynamics								
Beginning Asset Position	1780	1907	4622	7123	4496	1949	-526	-3019
Deliveries from all prior year funding	1050	3600	3300	0	0	0	0	0
Deliveries from FY 97 funding	0	0	86	954	0	0	0	0
Deliveries from FY 98 funding	0	0	0	0	0	0	0	0
Deliveries from FY 99 funding	0	0	0	94	1026	0	0	0
Deliveries from subsequent years' funding	0	0	0		100	1198	1180	1090
Other Gains	0	0	0		0	0	0	0
Combat Losses/Usage	0	0	0		0	0	0	0
Training Losses/Usage	793	769	751	3565	3563	3563	3563	3563
Test losses/Usage	100	96	84	90	90	90	90	90
Other Losses/Usage	30	20	50	20	20	20	20	20
Disposals/Retirements/Attritions/Etc.							0	
End of Year Asset Position	1907	4622	7123	4496	1949	-526	-3019	-5602
Inventory Objective or Current Authorized Allowance	1519	885	885	3675	3673	3673	3673	3673
Inventory Objective	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)	Vehicles Eligible for FY 98 Replacement	Aircraft: TOAI:	n/a		
Assets Rqd for Combat Loads: 775	FY 96 thru 30-Sep-1996: 793	FY 96 thru 30-Sep-1996: 130	FY 96 thru 30-Sep-1996: 0	Vehicles Eligible for FY 99 Replacement	PAA: TAI:	n/a		
WRM Rqmt: Pipeline: 500	FY 1995 839	FY 1995 105	FY 1995 0	Vehicle Augment:	Attrition Res:	0		
Other: 150	FY 1994 912	FY 1994 100	FY 1994 0		BAI	0		
TOTAL: 1425	FY 1993 653	FY 1993 120	FY 1993 0		Inactive Inv:	0		
	3197	455			Storage:	0		

REMARKS:
Starting in FY97, MK39 EMATT procurements represent MK39 Mod 1 instead of MK39 Mod 0.

CLASSIFICATION: Unclassified

WEAPONS PROCUREMENT, NAVY										DATE:	
BUDGET ITEM JUSTIFICATION SHEET										FEBRUARY 1997	
NAVMAT FORMAT 7110/1										(Exhibit P-40)	
BUDGET ACTIVITY: BA-3: Torpedo and Related Equipment						P-1 ITEM NOMENCLATURE: Vertical Launch ASROC		LI # 314500 C3DQ			
	PRIOR	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Program
Quantity	410	13	0	0	0	0	0	0	0	0	438
Cost (In Millions)	217.9	9.7	12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	240.3
Initial Spares (In Millions)	9.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6
Total (In Millions)	227.3	9.9	12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	249.9
Unit Cost (In Millions)	0.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
ITEM DESCRIPTION/JUSTIFICATION											
<p>VLA provides an Intermediate range, quick-reaction, all weather, ASW capability for ships receiving the new Vertical Launching System. The VLA Missile utilizes the MK-46 MOD 5 torpedo payload.</p> <p>FOT&E tests were completed in September 1992 and Full Production authorized in March 1993.</p> <p>Installation Data: These missiles will be a part of the ASW ordnance inventory to support combatants equipped with VLS (DD-963, DDG-51, CG-47 Class Ships).</p>											

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P-1 SHOPPING LIST LINE ITEM NO.	PAGE NO.
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WEAPONS PROCUREMENT, NAVY							DATE:	
BUDGET ITEM JUSTIFICATION SHEET							FEBRUARY 1997	
NAVMAT FORMAT 7110/1								
BUDGET ACTIVITY: BA-3: Torpedo and Related Equipment				P-1 ITEM NOMENCLATURE: Torpedo MK-46 Mods			LI # 321500 C3F5	
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Quantity								
Cost (In Millions)	3.5	1.7	0.3	21.3	19.2	36.3	37.2	38.2
ITEM DESCRIPTION/JUSTIFICATION								
<p>The Torpedo MK-46 is an in-service lightweight torpedo designed for launch from surface vessel torpedo tubes, VLA/ASROC, and fixed/rotary wing aircraft. The product improvement program will improve effectiveness.</p> <p>Procurement of SLEP kits in FY94 through FY97 will provide improvements in warfighting capabilities in Bottom Avoidance, CCM Shallow, and Aft Seal.</p> <p>The Lightweight Hybrid Torpedo (LHT) will be a modular upgrade to the MK46 torpedo. It is comprised on the MK50 sonar, MK46 warhead & propulsion system and new COTS processors which will use tactical software derived from MK50 and MK48 ADCAP. The LHT will provide improved performance against diesel electric submarine threats operating in shallow littoral water. The LHT production will begin with a LRIP contract in FY99 of 25 units.</p>								
	<u>FY 1996</u>	<u>FY 1997</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>
MK 46 SLEP	3.5	1.7	0.3					
LWT HYBRID				21.3	19.2	36.3	37.2	38.2
<p>P-3A Exhibits for the Bottom Avoidance/CCM Shallow Water/Aft Seal and Hybrid Torpedo are attached.</p> <p>All installations will be "Turn-Key".</p>								

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P-1 SHOPPING LIST	
LINE ITEM NO.	PAGE NO.
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CLASSIFICATION: Unclassified

CLASSIFICATION: Unclassified

APPROPRIATION: Weapons Procurement, Navy	WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	DATE: FEBRUARY 1997
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BUDGET ACTIVITY: BA-3: Torpedo and Related Equipment	P-1 ITEM NOMENCLATURE: Torpedo MK-46 Mods	SUBHEAD NO: C3F5
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COST CODE	ELEMENT OF COST	I/C	FY 1996		FY 1997		FY 1998		FY 1999	
			QTY	TOTAL COST						
F5103	SLEP Hardware	A	220	\$3,183	73	\$1,097		\$0		\$0
F5104	HYBRID Hardware	B		\$0		\$0		\$0	25	\$14,296
F5105	Exercise Head			\$0		\$0		\$0	16	\$1,826
F5830	Production Engineering (In-house)			\$0		\$382		\$186		\$2,908
F5840	Quality Assurance			\$11		\$78		\$34		\$137
F5860	Acceptance T & E			\$220		\$68		\$0		\$1,591
F5900	Production Engineering (Contractor)			\$96		\$100		\$54		\$494
				\$3,510		\$1,725		\$274		\$21,252
FY96 Production Engineering (In-House) and Quality Assurance are forward financed by FY94 and FY95 funds.										

P-1 SHOPPING LIST LINE ITEM NO.	PAGE NO.
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CLASSIFICATION: Unclassified

CLASSIFICATION: Unclassified

MODIFICATION OF WEAPON SYSTEM (EXHIBIT P-3A)

FEBRUARY 1997

MODIFICATION TITLE: Bottom Avoidance/CCM Shallow Water/Aft Seal, F5103

MODELS OF SYSTEM AFFECTED: MK-46 SLEP

DESCRIPTION/JUSTIFICATION: FY94 efforts provide preproduction models to allow proof of products and verification testing by the Navy. The Counter-Counter Measure (CCM) Shallow Water modification will modify algorithms and PWBs in the control group of the MK46 torpedo to improve performance against counter-measures in a shallow water environment. The Aft Seal modification will provide an improved seal on the drive shaft of the MK46 torpedo to prevent water entry. The Bottom Avoidance modification will provide search depth setting limitations on the MK46 torpedo to provide bottom avoidance in shallow water environments.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

TECH EVAL: N/A

OP EVAL: N/A

ASU: N/A

FINANCIAL PLAN	FY96 & PRIOR	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	TO COMPLETE	TOTAL
DEVELOPMENT										
RDT&E	0	0	0	0	0	0	0	0	0	0
PROCUREMENT										
Kit Quantity	1,075	73	0	0	0	0	0	0	0	1,148
Installation Kits									0	0
Installation Kit Nonrecurring									0	0
Installed Equipment	14,606	1,097							0	15,703
Installed Equipment Nonrecurring									0	0
Engineering Support*	1,185	628	274						0	2,087
Data									0	0
Training Equipment									0	0
Support Equipment									0	0
Interim Support Contractor									0	0
Procurement Cost Less Inst	15,791	1,725	274	0	0	0	0	0	0	17,790
Installation Cost	0	0	0	0	0	0	0	0	0	0
Unit Cost	15	24								
Total Procurement Cost	15,791	1,725	274	0	0	0	0	0	0	17,790

METHOD OF IMPLEMENTATION: FIRM FIXED PRICE CONTRACT - Alliant Techsystems contracted by NAVSEA.

CONTRACT DATE: PY: 4/96 CY: 3/97

PRODUCTION DELIVERY DATE: PY: 2/97 CY: 1/98

INSTALLATION SCHEDULE	FY96 & PRIOR				FY 97				FY 98				FY 99				FY 00				FY 01				FY 02				FY 03				TO COMPLETE	TOTAL										
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4												
Bottom Avoidance/CCM Shallow Water/Aft Seal																																												
INPUT																																												
FY96 & PRIOR	150	150	150	150	150	150	88	87																																				
FY 97																																												
TOTAL	150	150	150	150	150	150	88	87	20	20	20	13																																
OUTPUT																																												
FY96 & PRIOR																																												
FY 97	50	150	68	68	69	69	62	62	63	63	81	82	82	82	24																													
TOTAL	50	150	68	68	69	69	62	62	63	63	81	82	82	82	24	24	24	25																										

(*) Represents the total engineering support for SLEP efforts.

P-1 SHOPPING LIST NO.	PAGE NO.
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CLASSIFICATION: Unclassified

MODIFICATION OF WEAPON SYSTEM (EXHIBIT P-3A)

FEBRUARY 1997

MODIFICATION TITLE: HYBRID Hardware, F5104 and Exercise Head, F5105

MODELS OF SYSTEM AFFECTED: Lightweight HYBRID Torpedo

DESCRIPTION/JUSTIFICATION: The Lightweight Hybrid Torpedo (LHT) will be a modular upgrade, designed to take advantage of the current USN investments in hardware and technology by utilizing components from the MK46 & MK50 Torpedoes, as well as commercial-off-the-shelf (COTS) processor components with open systems architecture. In addition, it will integrate software improvements gained from the MK50 Shallow Water Performance Program.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: TECH EVAL: 2nd Qtr FY00 OP EVAL: 1st Qtr FY01 ASU: 4th Qtr FY01

FINANCIAL PLAN	FY96 & PRIOR	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	TO COMPLETE	TOTAL
DEVELOPMENT RDT&E	40,963	10,832	17,290	8,129	4,771	2,272	2,324	2,382	0	88,963
PROCUREMENT										
Kit Quantity				25	25	85	86	103	676	1,000
Installation Kits										
Installation Kit Nonrecurring										
Installed Equipment				16,122	14,802	29,921	31,444	32,750	230,188	355,227
Installed Equipment Nonrecurring										
Engineering Support*				5,130	4,419	6,356	5,733	5,404	42,759	69,801
Data										
Training Equipment										
Support Equipment										
Interim Support Contractor										
Procurement Cost Less Inst	0	0	0	21,252	19,221	36,277	37,177	38,154	272,947	425,028
Installation Cost	0	0	0	0	0	0	0	0	0	0
Unit Cost				850	769	427	432	370		
Total Procurement Cost	0	0	0	21,252	19,221	36,277	37,177	38,154	272,947	425,028

METHOD OF IMPLEMENTATION: FIXED PRICE CONTRACT - Contractor Unknown

CONTRACT DATE:

BY2: 6/99

PRODUCTION DELIVERY DATE:

BY2: 8/00

INSTALLATION SCHEDULE	FY96 & PRIOR				FY 97				FY 98				FY 99				FY 00				FY 01				FY 02				FY 03				TO COMPLETE	TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
HYBRID Torpedo INPUT																																		
FY96 & PRIOR																																		
FY 97																																		
FY 98																																		
FY 99																																		
TOTAL																																		
OUTPUT																																		
FY96 & PRIOR																																		
FY 97																																		
FY 98																																		
FY 99																																		
TOTAL																																		

CLASSIFICATION **UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET						DATE: FEBRUARY 1997		
P-40								
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT NAVY/ - TORPEDOES & RELATED EQUIPMENT BA3					P-1 ITEM NOMENCLATURE MK 48 TORPEDO ADCAP MODS/C3D1 Line Item 3225			
	1996	1997	1998	1999	2000	2001	2002	2003
QUANTITY								
COST (In Millions)	\$59.6	\$62.1	\$55.4	\$57.1	\$57.5	\$55.9	\$60.7	\$81.0
<p>This line item procures Modification Kits for the MK48 ADCAP Torpedo. The MK48 ADCAP MODS program incorporates both a Guidance and Control (G&C) modification and a Torpedo Propulsion Upgrade (TPU) modification to the baseline ADCAP system.</p> <p>The G&C Modification addresses the need to increase memory and processing capacity of the G&C hardware and to replace obsolete and sunset electronic component parts. The increased capacity is required for future advanced signal processing techniques that will be needed for performance upgrades in shallow water target detection/classification. The TPU addresses the Navy's operational requirement for a quieter ADCAP torpedo. These modifications will allow the MK48 ADCAP torpedo to operate effectively in adverse environments, thus enabling the MK48 ADCAP torpedo to counter enemy submarine threats into the 21st century.</p> <p>The Torpedo Acoustic Improvement Program, starting in FY02 with the purchase of 10 LRIP units, will incorporate a new wide band transducer array, receiver, transmitter, and software algorithms into the ADCAP MODS torpedo. These new elements will provide the capability to transmit and receive over a wide frequency band to take advantage of broadband signal processing techniques. These improvements are necessary to</p>								
	1996	1997	1998	1999	2000	2001	2002	2003
MK48 ADCAP MODS (C3D1)	\$56.7	\$52.6	\$55.4	\$57.1	\$57.5	\$55.9	\$60.7	\$81.0
Funds Designated for Reimbursement to Judgment Fund (C4PJ)*	\$2.9	\$9.5	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
* Funds are to be used to reimburse the Judgment Fund for the MK48 ADCAP Alternative Dispute Resolution settlement.								
DD Form 2454, JUN 86			P-1 SHOPPING LIST ITEM NO. 27 PAGE NO. 1			CLASSIFICATION: UNCLASSIFIED		

CLASSIFICATION: **UNCLASSIFIED**

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)									DATE: FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY WPN, BA:3 TORPEDOES AND RELATEI EQUIPMENT				P-1 ITEM NOMENCLATURE/SUBHEAD TORPEDO MK 48 ADCAP MODS C3D1/C4PJ						
COST CODE	ELEMENT OF COST	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS							
			FY 1996		FY 1997		FY 1998		FY 1999	
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
	ADCAP TORPEDO MODS									
D1001	ADCAP MODS	B	150	20,163	135	24,613	151	26,243	135	25,974
D1003	Support and Ancillary Equipment			4,977		2,478		2,513		2,634
	PRODUCTION SUPPORT SERVICES			31,575		25,521		26,636		28,447
D1830	Production Engineering - Contractor			8,117		6,620		6,646		7,181
D1830	Production Engineering - In-House			9,350		7,416		7,437		8,340
D1860	Accept. Test & Evaluation - Contractor			885		801		810		865
D1860	Accept. Test & Evaluation - In-House			13,223		10,684		11,743		12,061
	Funds Designated for Reimbursement to Judgment Fund (C4PJ)			2,927		9,468				
TOTAL			150	59,642	135	62,080	151	55,392	135	57,055

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P-1 SHOPPING LIST
ITEM NO. 27 PAGE NO. 2

CLASSIFICATION:

UNCLASSIFIED

P3A INDIVIDUAL MODIFICATION

MODIFICATION TITLE: Torpedo MK48 ADCAP MODS Program

MODELS OF SYSTEM AFFECTED: MK48 ADCAP

DESCRIPTION/JUSTIFICATION: The Modification Kits for the MK48 ADCAP Torpedo will allow the MK48 ADCAP torpedo to operate in adverse environments such as shallow water, thus enabling the MK48 ADCAP torpedo to counter enemy submarine threats into the 21st century. The Torpedo Acoustic Improvement Program will take advantage of broadband signal processing techniques and overcome current and future improvements in advanced threat countermeasures capabilities.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: MS II approved in Jan 1993; MS III approved in Apr. 1996.

FINANCIAL PLAN (IN \$000)	QTY	Y 96	AND PRIOR	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	TO	TO	TOTAL	TOTAL										
																		COMP	COMP			QTY	COST								
RDT&E				48167		12242		10786		19543		16223		16460		20362		33430		0	177213										
QUANTITY (MODS)	238			32271		135	18133		151	19201		135	19344		139	20242		131	19515		120	17960		135	20219		0	0	1184	166885	
UNIT COST (MODS)				136		135	134		151	127		135	143		139	146		131	149		120	150		135	150		0	0	1184	166885	
QUANTITY (ACOUSTIC IMPROVEMENT)															10	2750		70	15400		1104	192765		1184	210915						
UNIT COST (ACOUSTIC IMPROVEMENT)																275		220				175		0	0						
INSTALLATION KITS																							0	0							
INSTALLATION KITS NONRECURRING																							0	0							
EQUIPMENT																							0	0							
EQUIPMENT NONRECURRING				4743																		5700	0	10443							
ENGINEERING CHANGE ORDERS																							0	0							
SUPPORT EQUIPMENT				4116		2478		2513		2634		2605		2576		2884		2717		19537		0	42060								
OTHER				55525		20321		21321		23010		22012		21429		24384		24176		75635		0	287813								
INTERIM CONTRACTOR SUPPORT				10052		5200		5315		5437		5556		5679		5804		5932		32257		0	81232								

INSTALLATION OF HARDWARE

FY96 AND PRIOR EQUIPMENT (238 KITS)				143	6480	95	4401																								238	10881	
FY97 EQUIPMENT (135 KITS)						57	2641	78	3694																							135	6335
FY98 EQUIPMENT (151 KITS)								62	2936	89	4307																					151	7243
FY99 EQUIPMENT (135 KITS)										57	2759	78	3858																			135	6617
FY00 EQUIPMENT (139 KITS)												57	2819	82	4145																	139	6964
FY01 EQUIPMENT (131 KITS)														54	2729	77	3973															131	6702
FY02 EQUIPMENT (130 KITS)																55	2837	75	3703													130	6540
FY03 EQUIPMENT (205 KITS)																		205	10003													205	10003
TO COMPLETE (1104 KITS)																		1104	56161													1104	56161
TOTAL INSTALLATION COST				0	143	6480	152	7042	140	6630	146	7066	135	6677	136	6874	132	6810	1384	69867	2368												117446

TOTAL PROCUREMENT COST				106707		52612		55392		57055		57481		55876		60656		80954		390061													916794
TOTAL COST				154874		64854		66178		76598		73704		72336		81018		#####		390061		#####											

METHOD OF IMPLEMENTATION: DEPOT

CONTRACT DATE: PRIOR YEAF 4/96

PRODUCTION DELIVER DATE: PRIOR YEAF 5/97

ADMINISTRATIVE LEADTIME: 3 MONTHS PRODUCTION LEADTIME: 16 MONTHS

CURRENT YEAR: 1/97 BUDGET YEAR 1/98

CURRENT YEAR: 5/98 BUDGET YEAR 5/99

INSTALLATION SCHEDULE:

	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03	TO COMPLETE	TOTAL
INPUT* =====>										
FY96 AND PRIOR	14,21,48,60		43,43,9,0							238
FY97			0,0,23,34	34,33,11,0						135
FY98				0,0,25,37	38,38,13,0					151
FY99					0,0,23,34	34,33,11,0				135
FY00						0,0,23,34	35,35,12,0			139
FY01							0,0,21,33	33,33,11,0		131
FY02								0,0,20,35	75	130
FY03									205	205
TO COMPLETE									1,104	1,104
TOTAL										2,368
OUTPUT* =====>										
FY96 AND PRIOR	0,0,14,21		48,60,43,43	9,0,0,0						238
FY97				23,34,34,33	11,0,0,0					135
FY98					25,37,38,38					151
FY99						13,0,0,0				135
FY00						23,34,34,33	11,0,0,0			139
FY01							23,34,35,35	12,0,0,0		131
FY02								21,33,33,33	11	130
FY03									130	205
TO COMPLETE									1,104	1,104
TOTAL										2,368

*Input represents delivery of MODS kits from the contractor to the depot. Output represents completed installations of MODS kits.

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CLASSIFICATION: Unclassified

WEAPONS PROCUREMENT, NAVY BUDGET ITEM JUSTIFICATION SHEET (EXHIBIT P-40)	DATE: FEBRUARY 1997
NAVMAT FORMAT 7110/1	

BUDGET ACTIVITY: BA-3: Torpedo and Related Equipment	P-1 ITEM NOMENCLATURE: Torpedo Support Equipment	LI # 330100 C3F8
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	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Quantity								
Cost (In Millions)	30.5	22.1	25.5	25.6	22.5	22.6	24.7	25.9

ITEM DESCRIPTION/JUSTIFICATION

The Torpedo Support Equipment account procures various torpedo components required to ready weapons for Anti-Submarine Warfare forces afloat, Sub-Surface and Airborne to achieve and maintain a readiness posture sufficient to counter the enemy sub-surface threat. The objective of this line is to provide the fleet with ready exercise weapons for conducting training maneuvers which involve actually firing the torpedoes, and to maintain warshot inventories in an operational ready-for-issue status in support of combat ready deployment by anti-submarine warfare forces. After a torpedo is fired during a training exercise it is recovered and all expendable components such as batteries, cables, igniters, and various accessories required for air-launched torpedoes, must be replaced. These items as well as components such as exercise heads, fuel tanks, and exhaust valves which may be used more than once, but which are worn out or lost in service, are procured each fiscal year in quantities dependent upon the fleet training requirements and tempo of operations. The torpedoes requiring support are the MK46, MK46 SLEP, MK50, MK48 Mod 4 and ADCAP. In addition to components procurement, this account provides for production support and test/evaluation for these components and procurement of product improvement hardware and related equipment. In FY96 this account provides for the Heavyweight Torpedo Test Equipment Upgrade Program which consolidates MK48 and MK48 ADCAP Test Equipment. This effort supports the consolidation of IMAs from four to two and transforms the IMA infrastructure to one which is appropriate for a smaller submarine force.

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P-1 SHOPPING LIST LINE ITEM NO. 28	PAGE NO. 1
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CLASSIFICATION: Unclassified

CLASSIFICATION: Unclassified

APPROPRIATION: Weapons Procurement, Navy	WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	DATE: FEBRUARY 1997
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BUDGET ACTIVITY: BA-3: Torpedo and Related Equipment	P-1 ITEM NOMENCLATURE: Torpedo Support Equipment	SUBHEAD: C3F8
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COST CODE	ELEMENT OF COST	I/C	FY 1996		FY 1997		FY 1998		FY 1999	
			QTY	TOTAL COST						
	PEO (UNDERSEA WARFARE)									
	Lightweight Support Equipment			\$6,942		\$2,170		\$4,956		\$6,170
	MK48/ADCAP Support Equipment			\$23,390		\$19,896		\$20,553		\$19,380
	Torpedo Support Equipment			\$30,332		\$22,066		\$25,509		\$25,550

P-1 SHOPPING LIST LINE ITEM NO.	PAGE NO.
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CLASSIFICATION: Unclassified

CLASSIFICATION: Unclassified

APPROPRIATION: Weapons Procurement, Navy							WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)				DATE: FEBRUARY 1997	
BUDGET ACTIVITY: BA-3: Torpedo and Related Equipment					P-1 ITEM NOMENCLATURE: Lightweight Torpedo Support Equipment					SUBHEAD: C3F8		
COST CODE	ELEMENT OF COST	I/C	FY 1996		FY 1997		FY 1998		FY 1999			
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST		
F8001	<u>Lightweight Support Equipment</u>											
	MK46 Lead Dropper		228	\$50		\$0	453	\$104	694	\$162		
	MK46 Mod 5 Seawater Battery		460	\$162		\$0		\$0	50	\$19		
	MK46 Pressure Cylinder (Long)		181	\$25		\$0		\$0		\$0		
	MK46 Pressure Cylinder (Short)			\$0		\$0		\$0	176	\$108		
	MK46 REXTORP Kits			\$0		\$0	198	\$106	1,035	\$564		
	MK89 Mod 1 Suspension Bands			\$0		\$0	1,420	\$682	1,492	\$733		
	MK50 Starter Actuator			\$0		\$0		\$0	50	\$35		
	MK50 Boiler Assembly		105	\$1,935		\$0		\$0	25	\$492		
	MK50 Oxidant Start Squib			\$0		\$0		\$0	50	\$5		
	MK50 Oxidant Stop Squib		43	\$30		\$0	50	\$37	50	\$38		
	MK50 Cutter Assembly			\$0		\$0	61	\$43	50	\$36		
	MK50 Oxidant Shutdown Valve		43	\$32		\$0		\$0	50	\$39		
	MK50 Thermal Battery			\$0		\$0	50	\$4	50	\$4		
	MK50 Gas Injector Assembly		57	\$48		\$0		\$0		\$0		
	MK50 Tailnut		343	\$24		\$0		\$0		\$0		
	MK50 Cold Start Assembly			\$0		\$0	50	\$78	50	\$80		
	MK50 MK 33 Air Stabilizer			\$0		\$0	228	\$584	141	\$369		
	MK50 MK 32 Air Stabilizer		424	\$1,055		\$0	289	\$751	196	\$521		
	MK50 MK 14 Nose Cap			\$0		\$0	16	\$10	196	\$128		
	Sub-Total			\$3,361		\$0		\$2,399		\$3,333		
F8002	<u>Other Equipment Investment</u>											
	Product Improvement Hardware			\$173		\$153		\$181		\$186		
	ORDALT Procurement			\$819		\$556		\$595		\$934		
	Prototype Equipment			\$79		\$71		\$73		\$75		
	Sub-Total			\$1,071		\$780		\$849		\$1,195		
F8830	Production Engineering - In House			\$2,002		\$689		\$989		\$960		
F8840	Quality Assurance			\$81		\$219		\$224		\$212		
F8850	Product Improvement			\$54		\$101		\$104		\$98		
F8860	Acceptance T & E			\$173		\$171		\$175		\$166		
F8900	Production Engineering - Contractor			\$200		\$210		\$216		\$206		
				\$6,942		\$2,170		\$4,956		\$6,170		
P-1 SHOPPING LIST NO.					PAGE NO.					CLASSIFICATION: Unclassified		
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APPROPRIATION WEAPONS PROCUREMENT, NAVY			WEAPON SYSTEMS COST ANALYSIS						DATE FEBRUARY 1997	
BUDGET ACTIVITY 3 - TORPEDOES AND RELATED EQUIPMENT			P-1 ITEM NOMENCLATURE TORPEDO SUPPORT EQUIPMENT MK 48 ADCAP						SUBHEAD NO. C3F8	
COST CODE	ELEMENT OF COST	I/C	FY 96		FY 97		FY 98		FY 99	
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
F8100	EXERCISE EXPENDABLES AND COMPONENT REPLACEMENT									
	SUBMARINE WIRE COIL		0	0	914	1147	0	0	0	0
	FLEX HOSE(IMPROVED)		0	0	523	631	1400	1471	448	485
	TORPEDO WIRE COIL		0	0	275	452	0	0	0	0
	OTTO FUEL (1,000 lbs per unit)		123	665	907	4341	688	3674	597	3260
	IGNITER		1101	146	1155	169	760	121	518	85
	PROPELLANT (New)		1000	500	1000	526	1,303	706	486	271
	UMBILICAL CABLE (IMPROVED)		362	1176	556	1951	225	856	279	1636
	ARMING DEVICE		0	0	54	61	0	0	0	0
	SUBTOTAL			2487		9278		6828		5737
F8101	OTHER EQUIPMENT INVESTMENT									
	PRODUCT IMPROVEMENT			3324		1946		1700		1625
	FES REPLACEMENT/IMPROVEMENT			0		1100		1443		1480
	PROPULSION FUEL TANK SUPPORT			915		895		704		715
	EXERCISE FUEL TANK UPGRADE PROGRAM			0		0		217		222
	ORDALT MATERIAL			5856		1500		3910		4123
	ORDALT INSTALLATION			3512		1703		1936		2088
	CHAMBER & VALVE RELOADS			727		498		460		471
	RECOVERY SYSTEMS			0		0		144		79
	TIES III EXERCISE SECTION UPGRADE			0		441		865		671
	TEST EQUIPMENT UPGRADE			4058		136		130		124
	SUBTOTAL			18392		8219		11509		11598
	PRODUCTION SUPPORT									
F8833	PRODUCTION ENGINEERING (IN-HOUSE)			614		272		517		470
F8843	QUALITY ASSURANCE			1575		1580		1245		1157
F8863	ACCEPTANCE TEST & EVALUATION			476		547		454		418
	SUBTOTAL			2665		2399		2216		2045
	MK48/ADCAP GROSS COST			23544		19896		20553		19380

CLASSIFICATION: Unclassified

APPROPRIATION: WEAPONS PROCUREMENT, NAVY	PROCUREMENT HISTORY & PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 1997
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BUDGET ACTIVITY: BA-3: Torpedo and Related Equipment	P-1 ITEM NOMENCLATURE: Lightweight Torpedo Support Equipment	SUBHEAD: C3F8
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COST CODE	FISCAL YEAR		CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW WHEN	ARE SPEC REVISIONS REQUIRED?	IF YES, WHEN AVAILABLE
	ELEMENT OF COST	FY 1996										
F8001	MK46 Lead Dropper		Reisner	PD/C/FFP	NAVICP/IMSD	Jul-96	Jul-97	228	\$219	Yes	No	
	MK46 Mod 5 Seawater Battery		Magne Volt, NC	PD/C/FFP	NAVICP/IMSD	Jul-96	Jul-98	460	\$352	Yes	No	
	MK46 Pressure Cylinder (Long)		CAD, NJ	PD/C/FFP	NAVICP/IMSD	May-96	Dec-96	181	\$140	Yes	No	
	MK50 Boiler Assembly		Sunstrand, IL	WX/SS	NUWC/Newport	May-96	May-98	105	\$18,432	Yes	No	
	MK50 Oxidant Stop Squib		CAD, NJ	PD/C/FFP	NAVICP/IMSD	Sep-96	Sep-98	43	\$704	Yes	No	
	MK50 Oxidant Shutdown Valve		Unknown	PD/C/FFP	NAVICP/IMSD	Nov-96	Nov-98	43	\$736	Yes	No	
	MK50 Gas Injector Assembly		CAD, NJ	PD/C/FFP	NAVICP/IMSD	May-96	Dec-96	57	\$841	Yes	No	
	MK50 Tailnut		Melstrum, NJ	PD/C/FFP	NAVICP/IMSD	May-96	Sep-96	343	\$71	Yes	No	
MK50 MK 32 Air Stabilizer		Paranetics	PD/C/FFP	NAVICP/IMSD	Sep-96	Sep-98	424	\$2,489	Yes	No		

REMARKS:

P-1 SHOPPING LIST NO.	PAGE NO.
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CLASSIFICATION: Unclassified

CLASSIFICATION: Unclassified

APPROPRIATION: WEAPONS PROCUREMENT, NAVY **PROCUREMENT HISTORY & PLANNING (EXHIBIT P-5A)** DATE: FEBRUARY 1997

BUDGET ACTIVITY: BA-3: Torpedo and Related Equipment P-1 ITEM NOMENCLATURE: Lightweight Torpedo Support Equipment SUBHEAD: C3F8

COST CODE	FISCAL YEAR ELEMENT OF COST	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW WHEN	ARE SPEC REVISIONS REQUIRED?	IF YES, WHEN AVAILABLE
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FY 1998

F8001	MK46 Lead Dropper	Unknown	PD/C/FFP	NAVICP/IMSD	Jul-98	Jul-99	453	\$229	Yes	No	
	MK46 REXTORP Kits	Unknown	PD/C/FFP	NAVICP/IMSD	Jul-98	Jul-00	198	\$533	Yes	No	
	MK89 Mod 1 Suspension Band	Unknown	PD/C/FFP	NAVICP/IMSD	Jul-98	Jul-00	1,420	\$480	Yes	No	
	MK50 Oxidant Stop Squib	Unknown	PD/C/FFP	NAVICP/IMSD	Jul-98	Jul-00	50	\$735	Yes	No	
	MK50 Cutter Assembly	Unknown	PD/C/FFP	NAVICP/IMSD	Jul-98	Jul-00	61	\$703	Yes	No	
	MK50 Thermal Battery	Unknown	PD/C/FFP	NAVICP/IMSD	Jul-98	Jul-00	50	\$86	Yes	No	
	MK50 Cold Start Assembly	Unknown	PD/C/FFP	NAVICP/IMSD	Jul-98	Jul-00	50	\$1,569	Yes	No	
	MK50 MK33 Air Stabilizer	Unknown	PD/C/FFP	NAVICP/IMSD	Jul-98	Jul-00	228	\$2,562	Yes	No	
	MK50 MK32 Air Stabilizer	Unknown	PD/C/FFP	NAVICP/IMSD	Jul-98	Jul-00	289	\$2,600	Yes	No	
	MK50 MK14 Nose Cap	Unknown	PD/C/FFP	NAVICP/IMSD	Jul-98	Jul-00	16	\$640	Yes	No	

FY 1999

F8001	MK46 Lead Dropper	Unknown	PD/C/FFP	NAVICP/IMSD	Jul-99	Jul-00	694	\$234	Yes	No	
	MK46 Mod 5 Seawater Battery	Unknown	PD/C/FFP	NAVICP/IMSD	Jul-99	Jul-01	50	\$376	Yes	No	
	MK46 Pressure Cylinder (Short)	Unknown	PD/C/FFP	NAVICP/IMSD	Jul-99	Jul-01	176	\$612	Yes	No	
	MK46 REXTORP Kits	Unknown	PD/C/FFP	NAVICP/IMSD	Jul-99	Jul-01	1,035	\$545	Yes	No	
	MK89 Mod 1 Suspension Band	Unknown	PD/C/FFP	NAVICP/IMSD	Jul-99	Jul-01	1,492	\$491	Yes	No	
	MK50 Starter Actuator	Unknown	PD/C/FFP	NAVICP/IMSD	Jul-99	Jul-01	50	\$699	Yes	No	
	MK50 Boiler Assembly	Unknown	PD/C/FFP	NAVICP/IMSD	Jul-99	Jul-01	25	\$19,676	Yes	No	
	MK50 Oxidant Start Squib	Unknown	PD/C/FFP	NAVICP/IMSD	Jul-99	Jul-01	50	\$108	Yes	No	
	MK50 Oxidant Stop Squib	Unknown	PD/C/FFP	NAVICP/IMSD	Jul-99	Jul-01	50	\$751	Yes	No	
	MK50 Cutter Assembly	Unknown	PD/C/FFP	NAVICP/IMSD	Jul-99	Jul-01	50	\$718	Yes	No	
	MK50 Oxidant Shutdown Valve	Unknown	PD/C/FFP	NAVICP/IMSD	Jul-99	Jul-01	50	\$786	Yes	No	
	MK50 Thermal Battery	Unknown	PD/C/FFP	NAVICP/IMSD	Jul-99	Jul-01	50	\$88	Yes	No	
	MK50 Cold Start Assembly	Unknown	PD/C/FFP	NAVICP/IMSD	Jul-99	Jul-01	50	\$1,604	Yes	No	
	MK50 MK33 Air Stabilizer	Unknown	PD/C/FFP	NAVICP/IMSD	Jul-99	Jul-01	141	\$2,618	Yes	No	
	MK50 MK32 Air Stabilizer	Unknown	PD/C/FFP	NAVICP/IMSD	Jul-99	Jul-01	196	\$2,657	Yes	No	
	MK50 MK14 Nose Cap	Unknown	PD/C/FFP	NAVICP/IMSD	Jul-99	Jul-01	196	\$654	Yes	No	

REMARKS:

WEAPON SYSTEMS COST ANALYSIS										A. DATE FEBRUARY 1997
B. APPROPRIATION / BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY / 3 - TORPEDOES AND RELATED EQUIPMENT						C. P-1 ITEM NOMENCLATURE TORPEDO SUPPORT EQUIPMENT MK 48 ADCAP				
LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW?	SPEC REV REQ'D?	IF YES, WHEN AVAILABLE
<u>SUBMARINE WIRE COIL</u>										
FY 1997	UNKNOWN	C/FFP	IMSD	6/97	9/98	914	1255	YES	NO	
<u>FLEX HOSE</u>										
FY 1997 (IMPROVED VERSION)	UNKNOWN	C/FFP	IMSD	6/97	8/98	523	1207	YES	NO	
FY 1998 (IMPROVED VERSION)	UNKNOWN	C/FFP	IMSD	6/98	8/99	1400	1051	YES	NO	
FY 1998 (IMPROVED VERSION)	UNKNOWN	C/FFP	IMSD	6/99	8/00	448	1082	YES	NO	
<u>TORPEDO WIRE COIL</u>										
FY 1997	UNKNOWN	C/FFP	IMSD	6/97	9/98	275	1644	YES	NO	
<u>OTTO FUEL</u>										
FY 1996	INDIAN HEAD, MD	PX	IMSD	2/96	10/97	123	5403	YES	NO	
FY 1997	INDIAN HEAD, MD	PX	IMSD	10/96	10/98	907	4786	YES	NO	
FY 1998	INDIAN HEAD, MD	PX	IMSD	10/97	10/99	688	5340	YES	NO	
FY 1999	INDIAN HEAD, MD	PX	IMSD	10/98	10/00	597	5460	YES	NO	
<u>PROPELLANT (NEW)</u>										
FY 1996	UNKNOWN	C/FFP	IMSD	1/97	8/98	1000	500	YES	NO	
FY 1997	UNKNOWN	C/FFP	IMSD	8/97	8/99	1000	526	YES	NO	
FY 1998	UNKNOWN	C/FFP	IMSD	6/98	8/00	1,303	542	YES	NO	
FY 1999	UNKNOWN	C/FFP	IMSD	6/99	8/01	486	558	YES	NO	
D. REMARKS										

UNCLASSIFIED
CLASSIFICATION

WEAPON SYSTEMS COST ANALYSIS

A. DATE
FEBRUARY 1997

B. APPROPRIATION / BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY / 3 - TORPEDOES AND RELATED EQUIPMENT						C. P-1 ITEM NOMENCLATURE TORPEDO SUPPORT EQUIPMENT MK 48 ADCAP				
LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW?	SPEC REV REQ'D?	IF YES, WHEN AVAILABLE
<u>IGNITER</u>										
FY 1996	QUANTIC INC., CA	C/FFP	IMSD	2/96	8/96	1101	133	YES	NO	
FY 1997	UNKNOWN	C/FFP	IMSD	6/97	8/98	1155	146	YES	NO	
FY 1998	UNKNOWN	C/FFP	IMSD	6/98	8/99	760	159	YES	NO	
FY 1999	UNKNOWN	C/FFP	IMSD	6/99	8/00	518	164	YES	NO	
<u>ARMING DEVICES</u>										
FY 1997	UNKNOWN	C/FFP	IMSD	10/96	1/98	54	1130	YES	NO	
<u>UMBILICAL CABLES (IMPROVED)</u>										
FY 1996	KEYPORT, WA	C/FFP	NUWC	3/96	5/98	362	3250	YES	NO	
FY 1997	UNKNOWN	C/FFP	IMSD	6/97	5/99	556	3509	YES	NO	
FY 1998	UNKNOWN	C/FFP	IMSD	6/98	5/00	225	3803	YES	NO	
FY 1999	UNKNOWN	C/FFP	IMSD	6/99	5/01	279	5865	YES		
D. REMARKS										

DD Form 2446-1, JUL 87

Previous editions are obsolete

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Exhibit P-5a
UNCLASSIFIED
CLASSIFICATION

BUDGET ACTIVITY: 3-TORPEDOES AND RELATED EQUIPMENT FOR LIGHTWEIGHT TORPEDOES																								
ELEMENT OF STUDY:	TW32 LEAD DROPPER		TU44 SEAWATER BATTERY		YW09 CO2 LONG		SW98 EXHST VALVE		MK 31 RW AIR STABILIZER		MK 28 FW AIR STABILIZER		TR11 PROPELLER BAFFLE		WW93 STATIC LINE		WW94 SWAY BRACE PAD		7W78 EXT.SWAY BRACE PAD		TW58 CO2 SHORT		5W48 REXTORP-46 EXPENDABLE KIT	
	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99
ASSETS																								
On Hand as of March 14, 1996:		906		1146		1141		6086		5256		5991		5074		11624		18838		7842		2493		3340
Due-in with all Prior Years' Funds		228		1508		2570		0		0		0		0		0		0		0		500		0
Due-in with FY97 Funds		0		440		0		0		0		0		0		0		0		0		0		0
TOTAL ASSETS:		1134		3094		3711		6086		5256		5991		5074		11624		18838		7842		2993		3340
USAGE (Planned & Projected)																								
March 14, 1996 thru FY97:	653	0	703	0	898	0	653	0	330	0	770	0	770	0	770	0	231	0	231	0	653	0	919	0
* TSE	653	0	0	0	0	0	653	0	330	0	770	0	770	0	770	0	231	0	231	0	653	0	919	0
* Maintenance	0	0	703	0	898	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* Shelf-Life	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FY98:	432	0	417	0	417	0	432	0	222	0	519	0	519	0	519	0	156	0	156	0	432	0	627	0
* TSE (Fleet Firings)	432	0	0	0	0	0	432	0	222	0	519	0	519	0	519	0	156	0	156	0	432	0	627	0
* Maintenance	0	0	417	0	417	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* Shelf-Life	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FY99:	696	0	696	0	417	0	696	0	364	0	850	0	850	0	850	0	255	0	255	0	696	0	1039	0
* TSE (Fleet Firings)	696	0	279	0	0	0	696	0	364	0	850	0	850	0	850	0	255	0	255	0	696	0	1039	0
* Maintenance	0	0	417	0	417	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* Shelf-Life	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FY00:	0	694	694	0	505	0	694	0	364	0	849	0	849	0	849	0	255	0	255	0	694	0	1038	0
* TSE (Fleet Firings)	0	694	277	0	0	0	694	0	364	0	849	0	849	0	849	0	255	0	255	0	694	0	1038	0
* Maintenance	0	0	417	0	505	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* Shelf-Life	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FY01:	0	0	0	694	0	505	0	694	0	363	0	847	0	847	0	847	0	254	0	254	0	694	0	1035
* TSE (Fleet Firings)	0	0	0	277	0	0	694	0	363	0	847	0	847	0	847	0	254	0	254	0	694	0	1035	0
* Maintenance	0	0	0	417	0	505	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* Shelf-Life	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FY02:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* TSE (Fleet Firings)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* Shelf-Life	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FY03:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* TSE (Fleet Firings)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL USAGE:	1781	2475	2510	3204	2237	2742	2475	3169	1280	1643	2988	3835	2988	3835	2988	3835	897	1151	897	1151	2475	3169	3623	4658
NET ASSETS:	-647	-1341	584	-110	1474	969	3611	2917	3976	3613	3003	2156	2086	1239	8636	7789	17941	17687	6945	6691	518	-176	-283	-1318
PROCUREMENT LEADTIME: (MONTHS)	14	14	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
ACTUAL TRAINING EXPENDITURE																								
FY96:		387		362		0		526		281		337		337		337		120		490		526		423
FY95:		409		380		0		727		357		466		461		461		390		178		727		1020
FY94:		490		490		0		781		278		705		729		729		478		291		781		1020
FY93:		370		348		0		0		0		291		291		340		0		340		0		0
FY92:		399		375		0		0		0		340		341		350		0		350		0		0
ACTUAL OTHER THAN TRAINING EXPENDITURE																								
FY96:		75		496		620		0		25		25		25		25		43		0		0		0
FY95:		72		620		835		0		32		32		32		32		64		11		0		0
FY94:		86		714		1036		0		78		78		78		78		192		19		0		0
FY93:		24		714		0		0		191		191		191		191		0		22		0		0
FY92:		25		714		0		0		22		22		22		22		0		22		0		0
INVENTORY OBJECTIVE																								
Number of combat Loads:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Assets Required for Combat Loads:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
War Reserve Requirements:	0	0	0	0	0	0	0	0	525	525	1225	1225	1225	1225	1225	1225	1225	0	1225	1225	0	0	0	0
Maintenance Pipeline (Non-Add to AAO):	0	0	417	417	417	417	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual Training: (Non-Add to AAO)	400	664	400	664	0	400	664	216	358	503	834	503	834	503	834	590	590	196	325	400	664	627	1039	
Annual Testing: (Non-Add to AAO)	32	32	32	32	0	32	32	7	7	16	16	16	16	16	16	16	80	80	16	16	32	32	0	0
Supply Pipeline:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL REQUIREMENT:	432	696	849	1113	417	417	432	696	748	890	1744	2075	1744	2075	1744	2075	670	670	1437	1566	432	696	627	1039
APPROVED ACQUISITION OBJECTIVE (AAO)	0	0	0	0	0	0	0	525	525	1225	1225	1225	1225	1225	1225	1225	670	670	1225	1225	0	0	0	0
PROCUREMENT REQUIREMENT																								

WEAPON PROCUREMENT, NAVY
REQUIREMENTS STUDY
(EXHIBIT P - 20)

BUDGET ACTIVITY: 3-TORPEDOES AND RELATED EQUIPMENT FOR LIGHTWEIGHT TORPEDOES																								
ELEMENT OF STUDY:	5W26 TAILNUT		5W24 GAS INJECTION ASSY		5W23 ELECT INITIATOR BSS		5W20 GAS GENERATOR		BOILER ASSEMBLY		5W18 CUTTER ASSEMBLY		5W19 START ACTUATOR		5W11 OXIDANT START SQUIB		5W12 OXIDANT STOP SQUIB		CWAU LANYARD START ASSY		5W27 OXIDANT SHUTDOWN VALVE		5W15 THERMAL BATTERY	
	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99
ASSETS																								
On Hand as of March 14, 1996:		158		155		940		953		656		164		998		723		380		644		711		296
Due-in with all Prior Years' Funds		643		480		0		0		247		0		0		0		114		200		100		0
Due-in with FY97 Funds		0		0		0		0		55		0		0		92		148		0		41		379
TOTAL ASSETS:		801		635		940		953		958		164		998		815		642		844		852		675
USAGE (Planned & Projected)																								
March 14, 1996 thru FY97:		5		8		75		75		219		75		219		219		219		75		219		219
* TSE (Fleet Firings)		5		3		75		75		75		75		75		75		75		75		75		75
* Maintenance		0		5		0		0		144		0		144		144		144		0		144		144
* Shelf-Life		0		0		0		0		0		0		0		0		0		0		0		0
FY98:		5		7		50		50		175		50		387		175		175		50		175		175
* TSE (Fleet Firings)		5		2		50		50		50		50		50		50		50		50		50		50
* Maintenance		0		5		0		0		125		0		125		125		125		0		125		125
* Shelf-Life		0		0		0		0		0		0		212		0		0		0		0		0
FY99:		5		7		50		50		175		50		175		175		175		50		175		175
* TSE (Fleet Firings)		5		2		50		50		50		50		50		50		50		50		50		50
* Maintenance		0		5		0		0		125		0		125		125		125		0		125		125
* Shelf-Life		0		0		0		0		0		0		0		0		0		0		0		0
FY00:		5		7		283		50		175		50		175		175		175		50		175		175
* TSE (Fleet Firings)		5		2		50		50		50		50		50		50		50		50		50		50
* Maintenance		0		5		0		0		125		0		125		125		125		0		125		125
* Shelf-Life		0		0		233		0		0		0		0		0		0		0		0		0
FY01:		0		5		0		99		0		412		50		0		175		0		50		175
* TSE (Fleet Firings)		0		5		0		2		0		50		0		50		0		50		0		50
* Maintenance		0		0		0		5		0		0		125		0		125		0		125		125
* Shelf-Life		0		0		0		92		0		362		0		0		0		0		0		0
FY02:		0		0		0		0		0		0		0		0		0		0		0		0
* TSE (Fleet Firings)		0		0		0		0		0		0		0		0		0		0		0		0
* Maintenance		0		0		0		0		0		0		0		0		0		0		0		0
* Shelf-Life		0		0		0		0		0		0		0		0		0		0		0		0
FY03:		0		0		0		0		0		0		0		0		0		0		0		0
* TSE (Fleet Firings)		0		0		0		0		0		0		0		0		0		0		0		0
* Maintenance		0		0		0		0		0		0		0		0		0		0		0		0
* Shelf-Life		0		0		0		0		0		0		0		0		0		0		0		0
TOTAL USAGE:		20		25		29		128		458		870		225		275		744		919		744		919
NET ASSETS:		781		776		606		507		482		70		728		678		214		39		-61		-111
PROCUREMENT LEADTIME: (MONTHS)		24		24		24		24		24		24		24		24		24		24		24		24
ACTUAL TRAINING EXPENDITURE																								
FY96:		227		0		0		0		0		0		0		0		0		0		0		0
FY95:		158		0		0		0		0		0		0		0		0		0		0		0
FY94:		128		0		0		0		0		0		0		0		0		0		0		0
FY93:		0		0		0		0		0		0		0		0		0		0		0		0
FY92:		0		0		0		0		0		0		0		0		0		0		0		0
ACTUAL OTHER THAN TRAINING EXPENDITURE																								
FY96:		0		8		268		136		179		29		179		179		179		179		179		179
FY95:		0		14		536		273		278		55		278		278		278		278		278		278
FY94:		0		22		438		426		438		86		452		452		452		440		452		452
FY93:		0		0		220		0		220		0		220		220		220		220		220		220
FY92:		0		0		322		0		322		0		322		322		322		322		322		322
INVENTORY OBJECTIVE																								
Number of combat Loads:		0		0		0		0		0		0		0		0		0		0		0		0
Assets Required for Combat Loads:		0		0		0		0		0		0		0		0		0		0		0		0
War Reserve Requirements:		0		0		0		0		0		0		0		0		0		0		0		0
Maintenance pipeline (Non-Add to AAO):		0		125		125		0		125		125		125		125		125		125		125		125
Annual Training (Non-Add to AAO):		0		0		0		0		0		0		0		0		0		0		0		0
Annual Testing:		50		50		50		50		50		50		50		50		50		50		50		50
Supply Pipeline:		0		0		0		0		0		0		0		0		0		0		0		0
TOTAL REQUIREMENT:		50		50		175		175		50		50		175		175		175		50		175		175
APPROVED ACQUISITION OBJECTIVE (AAO)		0		0		0		0		0		0		0		0		0		0		0		0
PROCUREMENT REQUIREMENT																								
Total FY98 Requirement:		0		0		0		0		0		0		0		0		0		0		0		0
Less Net Assets end of FY98 FDP:		781		606		482		728		214		-61		42		71		-102		619		108		-69
Required FY98 Procurement:		0		0		0		0		0		61		0		0		102		0		0		69
Planned FY98 Procurement (Total):		0		0		0		0		50		61		0		0		102		0		0		70
* Planned FY98 Procurement (TSE):		0		0		0		0		0		61		0		0		50		0		0		50
* Planned FY98 Procurement (Replen):		0		0		0		0		50		0		0		0		52		0		0		20
Revised Net Assets end of FY98 FDP:		781		606		482		728		264		0		42		71		0		619		108		1
Total FY99 Requirement:		0		0		0		0		0		0		0		0		0		0		0		0
Less Net Assets end of FY99 FDP:		776		507		70		678		39		-111		-133		-104		-277		569		-67		-244
Less FY98 Planned Procurement:		0		0		0		0		50		61		0										

FY98-FY99 BUDGET ACTIVITY: 3-TORPEDOES AND RELATED EQUIPMENT FOR LIGHTWEIGHT TORPEDOES														
ELEMENT OF STUDY:	5W21 COLD START HEATER		5W14 MK 33 AIR RW STABILIZER		CWDN MK 32 AIR FW STABILIZER		T181 MK 14 FW NOSE CAP		T109 MK89-1 SUSPEN.BAND		5W49 MK46 SCUTTLE VALVE		T182 MK13 RW NOSE CAP	
	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99
ASSETS														
On Hand as of March 14, 1996:		62		239		30		1494		62		7		1277
Due-in with all Prior Years' Funds		511		0		871		0		5801		239		0
Due-in with FY97 Funds		0		0		0		0		0		0		0
TOTAL ASSETS:		573		239		901		1494		5863		246		1277
USAGE (Planned & Projected)														
March 14, 1996 thru FY97:	219	0	178	0	416	0	416	0	1694	0	33	0	178	0
* TSE (Fleet Firings)	75	0	178	0	416	0	416	0	1694	0	33	0	178	0
* Maintenance	144	0	0	0	0	0	0	0	0	0	0	0	0	0
* Shelf-Life	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FY98:	175	0	111	0	259	0	259	0	1110	0	22	0	111	0
* TSE (Fleet Firings)	50	0	111	0	259	0	259	0	1110	0	22	0	111	0
* Maintenance	125	0	0	0	0	0	0	0	0	0	0	0	0	0
* Shelf-Life	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FY99:	175	0	85	0	197	0	197	0	1495	0	35	0	85	0
* TSE (Fleet Firings)	50	0	85	0	197	0	197	0	1495	0	35	0	85	0
* Maintenance	125	0	0	0	0	0	0	0	0	0	0	0	0	0
* Shelf-Life	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FY00:	175	0	85	0	197	0	197	0	1492	0	35	0	85	0
* TSE (Fleet Firings)	50	0	85	0	197	0	197	0	1492	0	35	0	85	0
* Maintenance	125	0	0	0	0	0	0	0	0	0	0	0	0	0
* Shelf-Life	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FY01:	0	175	0	84	0	196	0	196	0	1492	0	35	0	84
* TSE (Fleet Firings)	0	50	0	84	0	196	0	196	0	1492	0	35	0	84
* Maintenance	0	125	0	0	0	0	0	0	0	0	0	0	0	0
* Shelf-Life	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FY02:	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* TSE (Fleet Firings)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FY03:	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* TSE (Fleet Firings)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL USAGE:	744	919	459	543	1069	1265	1069	1265	5791	7283	125	160	459	543
NET ASSETS:	-171	-346	-220	-304	-168	-364	425	229	72	-1420	121	86	818	734
PROCUREMENT LEADTIME: (MONTHS)	24	24	24	24	24	24	24	24	24	24	24	24	24	24
ACTUAL TRAINING EXPENDITURE														
FY96:		0		125		195		195		880		13		195
FY95:		0		50		78		78		1044		15		78
FY94:		0		0		0		0		0		0		0
FY93:		0		0		0		0		0		0		0
FY92:		0		0		0		0		0		0		0
ACTUAL OTHER THAN TRAINING EXPENDITURE														
FY96:		179		37		55		55		50		15		55
FY95:		278		58		107		107		37		23		107
FY94:		452		89		208		208		54		0		208
FY93:		220		45		43		43		0		0		43
FY92:		322		75		0		0		0		0		0
INVENTORY OBJECTIVE														
Number of combat Loads:	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Assets Required for Combat Loads:	0	0	0	0	0	0	0	0	0	0	0	0	0	0
War Reserve Requirements:	0	0	105	105	245	245	245	245	2100	2100	0	0	105	105
Maintenance Pipeline (Non-Add to AAO):	125	125	0	0	0	0	0	0	0	0	0	0	0	0
Annual Training (Non-Add to AAO):	0	0	100	74	234	172	234	172	1053	1438	400	664	100	74
Annual Testing:	50	50	11	11	25	25	25	25	57	57	32	32	11	11
Supply Pipeline:	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL REQUIREMENT:	175	175	216	190	504	442	504	442	3210	3595	432	696	216	190
APPROVED ACQUISITION OBJECTIVE (AAO)	0	0	105	105	245	245	245	245	2100	2100	0	0	105	105
PROCUREMENT REQUIREMENT														
Total FY98 Requirement:		0		105		245		245		2100		0		105
Less Net Assets end of FY98 FDP:		-171		-220		-168		425		72		121		818
Required FY98 Procurement:		171		325		413		0		2028		0		0
Planned FY98 Procurement (Total)		171		228		289		0		1420		0		0
* Planned FY98 Procurement (TSE):		50		228		289		0		1420		0		0
* Planned FY98 Procurement (Replen):		121		0		0		0		0		0		0
Revised Net Assets end of FY98 FDP:		0		8		121		425		1492		121		818
Total FY99 Requirement:		0		105		245		245		2100		0		105
Less Net Assets end of FY99 FDP:		-346		-304		-364		229		-1420		86		734
Less FY99 Planned Procurement		171		228		289		0		1420		0		0
Required FY99 Procurement:		175		181		320		16		2100		0		0
Planned FY99 Procurement (Total)		175		141		196		16		1492		0		0
* Planned FY99 Procurement (TSE):		50		141		196		16		1492		0		0
* Planned FY99 Procurement (Replen):		125		0		0		0		0		0		0
Revised Net Assets end of FY99 FDP:		0		65		121		245		1492		86		734

WEAPON PROCUREMENT, NAVY REQUIREMENTS STUDY (EXHIBIT P - 20)										WEAPON PROCUREMENT, NAVY (EXHIBIT P - 20)										DATE: FEBRUARY 1997		
FY98-FY99 TORPEDOES AND RELATED EQUIPMENT FOR HEAVYWEIGHT TORPEDOES										3-TORPEDOES AND RELATED EQUIPMENT FOR HEAVYWEIGHT TORPEDOES												
ELEMENT OF STUDY:	Torpedo Wire Coil		Submarine Wire Coil		Flex Hose (Improved)		Flex Hose Heavy		TIES III Ex Section		Otto Fuel		Igniter		Propellant (new)		Umbilical Cable (Imp)		Umbilical Cable		Chamber & Valve	
	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99	FY98	FY99
ASSETS																						
On Hand as of Apr 24, 1996:		7331		4793		1041		5899		163		2222		2363		6027		1400		2174		3283
Due-in with all Prior Years' Funds		199		2285						8		166		2329				897		121		108
Due-in with FY97 Funds		374		924								950		1234				1079				
TOTAL ASSETS:		7904		8002		1598		5899		171		3338		5926		6027		3558		1532		2295
USAGE (Planned & Projected) (Proc)	(53M)	(12M)	(50M)	(12M)	(52M)	(12M)	(52M)	(12M)	(53M)	(12M)	(53M)	(12M)	(52M)	(12M)	(52M)	(12M)	(61M)	(12M)	(49M)	(12M)	(54M)	(12M)
Apr 24, 1996 thru FY97:	1685		1917		361		1701		0.3		1092		1675		1256		419		111		530	
* TSE Usage	1685		1917		361		1701		0.3		1092		1675		1256		419		111		530	
* Warshot Depot Maintenance																						
FY98:	1037		1063		192		1079		0.2		537		950		475		475		74		232	
* TSE Usage	1037		1063		192		1079		0.2		537		950		475		475		74		232	
* Warshot Depot Maintenance																						
FY99:	1059		1120		371		1076		0.1		534		872		131		741		70		272	
* TSE Usage	1059		1120		371		1076		0.1		534		872		131		741		70		272	
* Warshot Depot Maintenance																						
FY00:	864		724	241	212	23	839	73	0.1		509		763	69			763	69	45	22	207	
* TSE Usage	864		724	241	212	23	839	73	0.1		509		763	69			763	69	45	22	207	
* Warshot Depot Maintenance																						
FY01:		873		725		426		511		0.1		497		765			765		67		18	193
* TSE Usage		873		725		426		511		0.1		497		765			765		67		18	193
* Warshot Depot Maintenance																						
FY02:																						18
* TSE Usage																						18
* Warshot Depot Maintenance																						
FY03:																						
* TSE Usage																						
* Warshot Depot Maintenance																						
TOTAL USAGE:	4646	873	4823	966	1137	449	4695	584	0.7	0.1	2672	497	4259	835	1862	2398	835	299	89	254	1259	212
NET ASSETS:	3258	2384	3179	2213	461	13	1204	620	1.70	170	666	169	1667	832	4165	4165	1160	326	1233	1144	2041	2132
PROCUREMENT LEADTIME: (MONTHS)	24	24	21	21	23	23	23	23	24	24	24	24	23	23	23	23	23	32	32	20	20	25
ACTUAL TRAINING EXPENDITURE																						
FY96:		452		532		32		500		0.2		234		532		532					32	65
FY95:		891		1048				1048		0.4		440		1048		1048					51	101
FY94:		891		1048				1048		1		410		1048		1048					6	65
FY93:		1030		1212				1212		1		445		1212		1212					3	40
ACTUAL OTHER THAN TRAINING EXPENDITURE																						
FY96:		333		226		79		343				76		151		151					12	68
FY95:		353		129				233				87		171		171					15	71
FY94:		518		192				335				138		273		273					2	74
FY93:		659		216				415				156		308		308					1	73
INVENTORY OBJECTIVE																						
Number of combat Loads:																						
Assets Required for Combat Loads	1845	1513	1955	1596	1368	1363	1368	1543			2283	1845	1882	1541	1882	1541	1882	1541	1364	1358	1364	1362
War Reserve Requirements:																						
Annual Training:	643	632	756	744	205	304	545	440	0.1	0.1	360	354	756	744	756	744	756	744	20	30	41	124
Annual Testing:																						
Maintenance Pipeline:	157	163	182	191	241	280	241	99														68
Other - Peacetime Pipeline	534	534	486	482	486	482	486	482	171	171	77	77	535	535	535	535	535	327	319	327	535	
Other - Surveillance/Proofing	19	23									11	14	22	27	22	27	22	27	1	1	1	4
Other - Special Firings	46	54	27	32	9	16	18	16			27	32	54	64	54	64	54	64	1	2	2	11
TOTAL REQUIREMENT:	3243	2920	3405	3045	2308	2444	2658	2579	1.71	1.71	2758	2322	3249	2911	3249	2911	3249	2911	1713	1711	1735	2110
APPROVED ACQUISITION OBJECTIVE	2444	2124	2467	2110	1863	1861	1872	2041	1.71	1.71	2398	1968	2493	2167	2493	2167	2493	2167	1693	1680	1694	1915
PROCUREMENT REQUIREMENT																						
Total FY98 Requirement:		2444		2467		1863		1872		1.71		2398		2493		2493		1693		1694		1918
Less Net Assets end of FY98 FDP:		3258		3179		461		1204		170		666		1667		4165		1160		1233		2132
Required FY98 Procurement:						1401		668		1		1733		826				1332		460		
Planned FY98 Procurement (Total)						1400					702		786				1329		230			
* Planned FY98 Procurement (TSE)						1400					688		760				1303		225			
* Planned FY98 Procurement (Prod):											14		26				26		5			
* Planned FY98 Procurement (Replen):																						
Revised Net Assets end of FY98 FDP:		3258		3179		1861		1204		170		1368		2453		4165		2489		1463		2041
Total FY99 Requirement:		2124		2110		1861		2041		1.71		1968		2167		2167		1680		1680		1915
Less Net Assets end of FY99 FDP:		2384		2213		13		620		170		169		832		4165		326		1144		2041
Less FY98 Planned Procurement:						1400					702		786				1329		230			
Required FY99 Procurement:						448		1420		1		1097		549			512		306			
Planned FY99 Procurement (Total)						448					609		540				508		283			
* Planned FY99 Procurement (TSE)						448					597		518				486		279			
* Planned FY99 Procurement (Prod):											12		22				22		4			
* Planned FY99 Procurement (Replen):																						
Revised Net Assets end of FY99 FDP:		2384		2213		1861		620		170		1479		2158		4165		2163		1657		2041

UNCLASSIFIED
CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET					DoD EXHIBIT P-40		February 1997	
APPROPRIATION/BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE				
WEAPONS PROCUREMENT, NAVY/BA 3 - TORPEDOES AND RELATED EQUIPMENT				ASW RANGE SUPPORT (83F4)				
	FY 96	FY 97	FY 98	FY 99	FY 00	FY01	FY02	FY03
<i>QUANTITY</i>								
<i>COST (IN MILLIONS)</i>	17.6	14.5	11.8	14.6	15.3	13.2	13.0	13.2
<p>The ASW Range support program provides training range equipment, weapon proofing range equipment, and Fleet support equipment for use on the Navy's underwater ranges. This equipment is used to instrument Fleet exercises and torpedo firings, ASW readiness assessment and ASW weapon production acceptance testing. The Weapon Fleet training ranges supported are Southern California Offshore Range (SCORE), Barking Sands Tactical Underwater Range/Barking Sands Underwater Range Extension (BARSTUR/BSURE), Atlantic Underwater Test and Evaluation Center (AUTEC) and Atlantic Fleet Weapons Training Facility (AFWTF). Proofing ranges are Nanoose, Dabob Bay and Quinault.</p> <p>Pinger Exercise/Proofing Components are placed in weapons and other underwater vehicles for tracking during training exercises and proofing runs, and to insure safe operation and movement of all craft and weapons on the ranges. Additionally, tracking allows analysis of proofing tests and Fleet training exercises. Without this analysis, satisfactory training benefits and weapon performance data would not be realized on the Navy underwater training ranges.</p> <p>Recovery Equipment is used on proofing ranges for recovering weapons on or buried in the sea floor. Approximately \$70 million of hardware is recovered each year using these devices.</p> <p>Range Proofing provides for Underwater Weapons Evaluation Facility, range equipment for YTT(Yard Torpedo Tender) test crafts, and other numerous range equipment in support of Test and Evaluation operations on the proofing ranges.</p>								
				P-1 SHOP LIST ITEM NO 29	PAGE NO 1	UNCLASSIFIED CLASSIFICATION		

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CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET
DoD EXHIBIT P-40

February 1997

APPROPRIATION/BUDGET ACTIVITY
WEAPONS PROCUREMENT, NAVY/BA 3 - TORPEDOES AND RELATED EQUIPMENT

P-1 ITEM NOMENCLATURE
ASW RANGE SUPPORT (83F4)

The ASW Target MK 30 Mod 1 provides essential fleet ASW training on the Navy's underwater tracking ranges. The MK 30 Mod 1 is currently used at the BARSTUR - Hawaii, AUTEK - Bahamas, AFWTF - ST. Croix, Virgin Islands and SCORE. ASW range support funds are used to procure components for the MK 30 that are consumed/expended during fleet in-water runs. These funds are also used to replace obsolete components and improve maintenance and reliability of the targets.

MK 28 Targets are used for conducting Service Weapons Tests (SWT) on in-service and advanced warshot torpedoes. The SWT is the only test the Navy has to test the explosive chain of torpedoes. These funds are used to procure target systems and components expended during SWT operations in addition to improvement and modernization projects.

MK 69 Target is a bottom mounted stationary target used on proofing ranges for weapon Test & Evaluation testing. This funding is for improvement and modernization projects that improve maintenance and operability of the target.

The Over-the-side (OTS) Target is a surface deployed and will test as many weapon performance attributes as practical at the lowest possible procurement, deployment and turnaround costs. This target is needed to fill specific technical requirements for MK 48 ADCAP and MK 50 torpedoes. These funds are used to procure components that improve operability and maintenance of the target.

Production support services will fund support efforts performed by a field activity or contractor during the production phase of these projects.

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LIST ITEM
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)									February 1997	
APPROPRIATION/BUDGET ACTIVITY WPN/BA 3 - TORPEDOES AND RELATED EQUIPMENT						P-1 ITEM NOMENCLATURE ASW RANGE SUPPORT (83F4)				
COST CODE	ELEMENT OF COST	ID CODE	TOTAL COST IN THOUSANDS OF DOLLARS							
			FY 96		FY 97		FY 98		FY 99	
			QTY	COST	QTY	COST	QTY	COST	QTY	COST
F4001	Pinger Exercise Components			1437		1204		1090		1267
F4002	Proofing Pinger Components			1225		1107		649		910
F4003	Recovery Equipment			887		565		536		783
F4004	Range Proofing			1753		1570		1439		1974
F4005	MK 30 Mod 1 Exercise Components			7064		4753		4252		4777
F4005	MK 28 Target Components			837		487		324		506
F4005	MK 69 Target Components			475		340		264		262
F4005	Over-the-Side (OTS)			221		180		188		235
F4830	Production Engineering - In-House			1093		622		513		487
F4900	Production Engineering - Contractors			500		1222		1063		1226
F4840	Quality Assurance - In-House			332		300		162		158
F4850	Production Improvement - In-House			1390		1774		1173		1701
F4860	Acceptance, Test & Evaluation - In-House			378		357		194		277
	TOTAL			17592		14481		11847		14563
			P-1 SHOP LIST	PAGE NO		UNCLASSIFIED				
			ITEM NO	3		CLASSIFICATION				
			29							

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BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: February 1997	
APPROPRIATION/BUDGET ACTIVITY Weapons Procurement, Navy BA - 3 Torpedoes and Related Equipment					P-1 ITEM NOMENCLATURE BLI 2410 FIRST DESTINATION TRANSPORTATION (FDT) / 93TA			
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Millions)	\$3.9	\$2.6	\$2.0	\$2.0	\$2.0	\$2.1	\$2.1	\$2.2
<p>First Destination Transportation (FDT) provides for the movement of newly procured equipment and material from the contractor's plant to the initial point of receipt for subsequent shipment to its destination.</p>								

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WEAPONS SYSTEM COST ANALYSIS							DATE:			
P-5							February 1997			
APPROPRIATION/BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE/SUBHEAD						
Weapons Procurement, Navy BA 3 Torpedoes and Related Equipment				First Destination Transportation (FDT) / 93TA						
COST CODE	ELEMENT OF COST	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS							
			FY 1996		FY 1997		FY 1998		FY 1999	
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
TA001	First Destination Transportation			3,918		2,566		2,008		2,028
				3,918		2,566		2,008		2,028

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P-1 SHOPPING LIST

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