

BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: <b>FEBRUARY 2004</b>																																						
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment</b>							P-1 ITEM NOMENCLATURE <b>SUBMARINE BATTERIES BLI: 094500/094505 SBHD: 81HM</b>																																						
Program Element for Code B Items:							Other Related Program Elements																																						
	Prior Years	ID Code		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total																																	
QUANTITY																																													
COST (In Millions)				\$13.6	\$11.4	\$26.1	\$24.1	\$30.8	\$14.4	\$14.6		\$134.9																																	
SPARES COST (In Millions)																																													
<p>GUPPY 1 MOD E - HM002</p> <p>As the primary source of emergency power, batteries are MISSION CRITICAL equipment. Submarine batteries are consumable items which require replacement upon reaching the end of their service life. Experience and laboratory tests has established a predictable service life of 66 months. Due to electrochemical degradation associated with batteries, life extensions are not possible without significant reduction of system capability. The replacement schedule for these batteries is predicted using continually updated usage data from each ship. Batteries are long-lead items and are procured approximately one year before installation. Development of a low maintenance sealed lead acid battery that involves adapting commercial Valve Regulated Lead Acid (VRLA) technology to submarines, is in progress to shift procurement from flooded batteries to VRLA in FY04.</p> <div style="text-align: center; margin-top: 20px;"> <p><u>FY 03</u></p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td>SSN 713</td> <td>SAN DIEGO</td> <td>Aug 03</td> </tr> <tr> <td>SSN 699</td> <td>NORFOLK</td> <td>Nov 03</td> </tr> <tr> <td>SSN 714</td> <td>NORFOLK</td> <td>Nov 03</td> </tr> <tr> <td>SSN 705</td> <td>PEARL HARBOR</td> <td>Jan 04</td> </tr> <tr> <td>SSN 753</td> <td>NORFOLK</td> <td>Feb 04</td> </tr> <tr> <td>SSN 769</td> <td>GROTON</td> <td>Feb 04</td> </tr> <tr> <td>SSN 754</td> <td>PEARL HARBOR</td> <td>Feb 04</td> </tr> <tr> <td>SSN 755</td> <td>GROTON</td> <td>May 04</td> </tr> <tr> <td>SSN 710</td> <td>GROTON</td> <td>May 04</td> </tr> <tr> <td>SSN 707</td> <td>SAN DIEGO</td> <td>Jun 04</td> </tr> <tr> <td>SSN 716</td> <td>SAN DIEGO</td> <td>Nov 04</td> </tr> </table> </div>													SSN 713	SAN DIEGO	Aug 03	SSN 699	NORFOLK	Nov 03	SSN 714	NORFOLK	Nov 03	SSN 705	PEARL HARBOR	Jan 04	SSN 753	NORFOLK	Feb 04	SSN 769	GROTON	Feb 04	SSN 754	PEARL HARBOR	Feb 04	SSN 755	GROTON	May 04	SSN 710	GROTON	May 04	SSN 707	SAN DIEGO	Jun 04	SSN 716	SAN DIEGO	Nov 04
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SSN 716	SAN DIEGO	Nov 04																																											

CLASSIFICATION:

**UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION			DATE: FEBRUARY 2004		
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE		
<b>OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment</b>			<b>SUBMARINE BATTERIES BLI: 094500 SBHD: 81HM</b>		
<u>FY 04</u>			<u>FY 05</u>		
SSN 701	PEARL HARBOR	Nov 04	SSN 759	SAN DIEGO	Apr 06
SSN 758	PEARL HARBOR	Nov 05	SSN 756	NORFOLK	Aug 06
SSN 772	PEARL HARBOR	Nov 05	SSN 720	GROTON	Aug 06
SSN 757	GROTON	Feb 05	SSN 764	NORFOLK	Aug 06
SSN 690	GROTON	May 05	SSN 760	GROTON	Nov 06
SSN 773	PEARL HARBOR	Jun 05	SSN 721	PEARL HARBOR	Jan 07
SSN 715	PEARL HARBOR	Jul 05	SSN 761	GROTON	Feb 07
SSN 718	PEARL HARBOR	Aug 05			
SSN 717	PEARL HARBOR	Dec 05			
SSN 688	PEARL HARBOR	Jan 06			
SSN 708	NORFOLK	Feb 06			

P-1 SHOPPING LIST

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<b>BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION</b>		DATE: <b>FEBRUARY 2004</b>																
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment</b>	P-1 ITEM NOMENCLATURE <b>SUBMARINE BATTERIES BLI: 094500 SBHD: 81HM</b>																	
<p>NR-1 (HM005)</p> <p>Submarine batteries are consumable items which require replacement upon reaching the end of their service life. Batteries are MISSION CRITICAL equipment. The NR-1 Silver Zinc battery is a secondary underwater power source. Its function during a military or oceanographic research mission is an emergency source of power in the event of nuclear reactor shut down. A new battery is installed at the end of its 15 month cycle.</p> <p>Procurement Installation on the NR-1 is as follows:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 20%;">Installing Agent - Portsmouth</td> <td style="width: 10%;"></td> <td style="width: 10%;">Date</td> <td style="width: 50%;"></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>FY 03</td> <td></td> <td>Apr 07</td> <td></td> </tr> <tr> <td>FY 05</td> <td></td> <td>Apr 09</td> <td></td> </tr> </table> <p>SILVER ZINC EMERGENCY BATTERIES (HM006)</p> <p>Submarine batteries are consumable items which require replacement upon reaching the end of their service life. Batteries are MISSION CRITICAL equipment and are utilized aboard the DSRV deep submergence vehicle to activate critical components, e.g. release valves and devices, as well as emergency back-up power for the life support systems. Batteries can be installed by ships Force after a 12 month life cycle.</p> <p>GFE (SILVER)</p> <p>Silver is required for all DSRV, NR-1 and emergency batteries, and is requisitioned from the governments reclaiming facility.</p>			Installing Agent - Portsmouth		Date						FY 03		Apr 07		FY 05		Apr 09	
Installing Agent - Portsmouth		Date																
FY 03		Apr 07																
FY 05		Apr 09																

<b>BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION</b>				DATE: <b>FEBRUARY 2004</b>																																																																									
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment</b>			P-1 ITEM NOMENCLATURE <b>SUBMARINE BATTERIES BLI: 094500/094505 SBHD: 81HM</b>																																																																										
<p>TRIDENT 1 (HM008) Submarine batteries are consumable items which require replacement upon reaching the end of their service life. Batteries are MISSION CRITICAL equipment. These are replacement batteries for all Trident class ships. Experience and laboratory tests has established a predictable service life of 72 months. Due to electrochemical degradation associated with batteries, life extensions are not possible without significant reduction of system capability. The replacement schedule for these batteries is predicted using continually updated usage data from each ship. Development of a low maintenance sealed lead acid battery that involves adapting commercial Valve Regulated Lead Acid (VRLA) technology to submarines, is in progress to shift procurement from flooded batteries to VRLA in FY04.</p> <p>Procurement Installation on the Following Hulls (HM008)</p> <table style="width:100%; border: none;"> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;"><u>FY 03</u></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;">SSBN 728</td> <td style="text-align: center;">NNS</td> <td style="text-align: center;">Oct-03</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;">SSBN 740</td> <td style="text-align: center;">Kings Bay</td> <td style="text-align: center;">Nov-03</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;">SSBN 734</td> <td style="text-align: center;">Kings Bay</td> <td style="text-align: center;">Feb-04</td> </tr> <tr> <td><u>FY 04</u></td> <td></td> <td></td> <td style="text-align: center;"><u>FY 05</u></td> <td></td> <td></td> </tr> <tr> <td>SSBN 735</td> <td style="text-align: center;">Kings Bay</td> <td style="text-align: center;">Apr-05</td> <td style="text-align: center;">SSBN 742</td> <td style="text-align: center;">Kings Bay</td> <td style="text-align: center;">Aug-06</td> </tr> <tr> <td>SSBN 741</td> <td style="text-align: center;">Kings Bay</td> <td style="text-align: center;">Nov-05</td> <td style="text-align: center;">SSBN 736</td> <td style="text-align: center;">Kings Bay</td> <td style="text-align: center;">May-06</td> </tr> <tr> <td>SSBN 730</td> <td style="text-align: center;">Bangor</td> <td style="text-align: center;">Aug-06</td> <td style="text-align: center;">SSBN 726</td> <td style="text-align: center;">Bangor</td> <td style="text-align: center;">Nov-06</td> </tr> </table> <p>SEAWOLF (HM009) Submarine batteries are consumable items which require replacement upon reaching the end of their service lift. Batteries are MISSION CRITICAL equipment. These are replacement batteries for SEAWOLF Class ships. Failure analyses of shipboard, and laboratory test cells has resulted in and estimated net service life of 72 months.</p> <p>Procurement and Installation on the following Hulls (HM009)</p> <table style="width:100%; border: none;"> <tr> <td><u>FY 05</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>SSN 22</td> <td style="text-align: center;">Groton</td> <td style="text-align: center;">Oct 07</td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>FY 07</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>SSN 23</td> <td style="text-align: center;">Groton</td> <td style="text-align: center;">Jan 08</td> <td></td> <td></td> <td></td> </tr> </table>									<u>FY 03</u>						SSBN 728	NNS	Oct-03				SSBN 740	Kings Bay	Nov-03				SSBN 734	Kings Bay	Feb-04	<u>FY 04</u>			<u>FY 05</u>			SSBN 735	Kings Bay	Apr-05	SSBN 742	Kings Bay	Aug-06	SSBN 741	Kings Bay	Nov-05	SSBN 736	Kings Bay	May-06	SSBN 730	Bangor	Aug-06	SSBN 726	Bangor	Nov-06	<u>FY 05</u>						SSN 22	Groton	Oct 07				<u>FY 07</u>						SSN 23	Groton	Jan 08			
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CLASSIFICATION:

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<b>BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION</b>		DATE: <b>FEBRUARY 2004</b>
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment</b>	P-1 ITEM NOMENCLATURE <b>SUBMARINE BATTERIES BLI: 094500 SBHD: 81HM</b>	
<p>PRODUCTION ENGINEERING HM830</p> <p>NSWC Crane is the designated procurement activity and engineering agent to monitor battery performance to establish replacement schedules with the fleet. Complementing the battery procurements with technical contractual data, NSWC Crane receives sample cells of lead-acid batteries (all types) to perform continuous life testing until complete cell failure. In addition to this being a Military Specification (MILSPEC) requirement, this procedure has proven very beneficial to the Navy in detecting battery deficiencies that can be corrected before installation thus alleviating critical emergent fleet impact. This test program is also used to verify improved operating and maintenance procedures and application of SEAWOLF/VIRGINIA battery technologies to other designs in order to extend service life and reduce the number of battery changeouts (reduced life cycle costs) over the life of the ship.</p>		

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WEAPONS SYSTEM COST ANALYSIS P-5				Weapon System							DATE: FEBRUARY 2004					
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-1 Ships Support Equipment				ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD SUBMARINE BATTERIES BLI: 094500 SBHD: 81HM											
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS													
			Prior Years	FY 2003			FY 2004			FY 2005						
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost				
	<u>N87 SUBMARINE WARFARE</u>															
HM002	ASB - GUPPY 1 MOD E (126 CELL)	A		13	650	8,445	10	625.3	6,253	5	644.0	3,220				
HM003	DSRV 1-2	A		2 SETS	301	602	3 SETS	307.5	923	3 SETS	316.0	948				
HM003A	(GFE) SILVER					159			258			266				
HM005	NR-1	A		1	256	256				1	301.0	301				
HM005A	(GFE) SILVER					77					78.0	78				
HM006	EMERGENCY BATTERIES	A					8	10.2	82							
HM006A	(GFE) SILVER								4							
HM008	PDX - TRIDENT 1 TYPE (126 CELL)	A		3	861	2,583	3	775.0	2,325	3	902.0	2,706				
HM009	LLL - SEAWOLF (126 CELL)									1	900.0	900				
HM830	PRODUCTION ENGINEERING					1,442			1,542			1,037				
HM5IN	FMP INSTALLATIONS													16,621		
									13,564				11,386			26,077

CLASSIFICATION: **UNCLASSIFIED**

<b>BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)</b>	<b>Weapon System</b>	<b>A. DATE</b>
		<b>FEBRUARY 2004</b>

<b>B. APPROPRIATION/BUDGET ACTIVITY</b>	<b>C. P-1 ITEM NOMENCLATURE</b>	<b>SUBHEAD</b>
<b>Other Procurement, Navy</b>		
<b>BA 1: Ships Support Equipment</b>	<b>Submarine Batteries BLI: 094500</b>	<b>81HM</b>

Cost Element/ FISCAL YEAR	QTY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE
<u>FY 2003</u>										
HM002	11	612	NSWC CRANE		TBD	GNB LOMBARD, ILL	DEC 02	JUN 03	YES	
HM003	2	301	NSWC CRANE		TBD	UNKNOWN	DEC 02	DEC 03	YES	
HM005	1	256	NSWC CRANE		TBD	UNKNOWN	DEC 02	DEC 03	YES	
HM008	3	861	NSWC CRANE		TBD	GNB LOMBARD, ILL	DEC 02	FEB 04	YES	
HM009	1	1,708	NSWC CRANE		TBD	GNB LOMBARD, ILL	DEC 02	FEB 04	YES	
<u>FY 2004</u>										
HM002	10	625	NSWC CRANE		TBD	GNB LOMBARD, ILL	DEC 03	JUN 04	YES	
HM003	3	308	NSWC CRANE		TBD	UNKNOWN	DEC 03	DEC 04	YES	
HM006	8	10	NSWC CRANE		TBD	UNKNOWN	DEC 03	DEC 04	YES	
HM008	3	775	NSWC CRANE		TBD	GNB LOMBARD, ILL	DEC 03	JUN 05	YES	
<u>FY 2005</u>										
HM002	5	644	NSWC CRANE		TBD	GNB LOMBARD, ILL	DEC 04	JUN 05	YES	
HM003	3	316	NSWC CRANE		TBD	UNKNOWN	DEC 04	DEC 05	YES	
HM005	1	301	NSWC CRANE		TBD	UNKNOWN	DEC 03	DEC 04	YES	
HM008	3	902	NSWC CRANE		TBD	GNB LOMBARD, ILL	DEC 04	FEB 06	YES	
HM009	1	900	NSWC CRANE		TBD	GNB LOMBARD, ILL	DEC 04	FEB 06	YES	

<b>D. REMARKS</b>

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SUBMARINE BATTERIES TYPE MODIFICATION: SHIPALT MODIFICATION TITLE: ASB GUPPY MOD 1 MOD E

(126 CELL)  
HM002

DESCRIPTION/JUSTIFICATION:

Submarine batteries are consumable items which require replacement upon reaching the end of their service life. Experience and laboratory tests has established a predictable service life of 66 months. Due to electrochemical degradation associated with batteries, life extensions are not possible without significant reduction of system capability. The replacement schedule for these batteries is predictable using continually updated usage data from each ship. Batteries are long-lead items and are procured approximately one year before installation. Development of a low maintenance lead acid battery that involves adapting commercial Valve Regulated Lead Acid (VRLA) technology to submarines is in progress to shift procurement from flooded batteries to VRLA in FY 04.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 2001 & Prior		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC	TOTAL			
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	\$	QTY	\$		
<b>FINANCIAL PLAN (IN MILLIONS)</b>																							
<u>RDT&amp;E</u>																					0	0.0	
<u>PROCUREMENT</u>																							
INSTALLATION KITS																					0	0.0	
INSTALLATION KITS - UNIT COST																							
INSTALLATION KITS NONRECURRING																						0.0	
EQUIPMENT			10	5.9	11	6.7	10	6.3	5	3.2	9	5.2	10	6.0	11	6.8	9	5.7			75	45.77	
EQUIPMENT NONRECURRING																						0.0	
ENGINEERING CHANGE ORDERS																						0.0	
DATA																						0.0	
TRAINING EQUIPMENT*																						0	0.0
SUPPORT EQUIPMENT (CCM)																						0	0.0
OTHER: TRIDENT PAYBACKS																						0	0.0
OTHER: SPARES																						0	0.0
OTHER: T8 MOD 3 IR PREPROD MODEL																						0	0.0
INTERIM CONTRACTOR SUPPORT																							0.0
INSTALL COST									11	12.1	7	7.4	9	9.7								27	29.3
TOTAL PROCUREMENT	0	0.0	10	5.9	11	6.7	10	6.3	5	3.2	9	5.2	10	6.0	11	6.8	9	5.7				75	46

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: SSN 751-773 MODIFICATION TITLE: ASB GUPPY 1 MOD E (126 CELL)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 12 Months

CONTRACT DATES: FY 2002: N/A FY 2003: N/A FY 2004: \_\_\_\_\_

DELIVERY DATE: FY 2002: N/A FY 2003: N/A FY 2004: \_\_\_\_\_

(\$ in Millions)

Cost:	Prior Years		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total			
	Qty	\$	Qty	\$	Qty	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$			
PRIOR YEARS																						0	0.00	
FY 2002 EQUIPMENT																							0	0.00
FY 2003 EQUIPMENT																							0	0.00
FY 2004 EQUIPMENT									11	12.10													11	13.5
FY 2005 EQUIPMENT											7	7.43											7	7.43
FY 2006 EQUIPMENT													9	9.74									9	9.74
FY 2007 EQUIPMENT																							0	0.00
FY 2008 EQUIPMENT																								0.00
FY 2009 EQUIPMENT																								
TO COMPLETE																						0	27	50.4

INSTALLATION SCHEDULE:

	FY 2001 & Prior	FY 2002				FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				TC	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		
In	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	3	3	1	2	3	1	2	3	3	1	0	0	0	0	0	27
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	3	3	1	2	3	1	2	3	3	1	0	0	0	0	0	27

P-3A

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SUBMARINE BATTERIES TYPE MODIFICATION: Shipalt MODIFICATION TITLE: PDX - TRIDENT 1 TYPE (126 CELL)

DESCRIPTION/JUSTIFICATION: (HM008)

These are replacement batteries for all TRIDENT Class ships. Experience and laboratory tests has established a predictable service life of 72 months. Due to electrochemical degradation associated with batteries, life extensions are not possible without significant reduction of system capability . The replacement schedule for these batteries is predicted using continually updated usage data from each ship. Development of a low maintenance sealed lead lead acid battery that involves adapting commercial Valve Regulated Lead Acid (VRLA) technology to submarines, is in progress shift to procurement from flooded batteries to VRLA in FY 04.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 2001 & Prior		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC	TOTAL		
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																						
<u>RDT&amp;E</u>																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT			2	1.7	3	2.6	3	2.3	3	2.7	4	3.2	3	2.5	4	3.5	3	2.7			25	21.28
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT*																					0	0.0
SUPPORT EQUIPMENT (CCM)																					0	0.0
OTHER: TRIDENT PAYBACKS																					0	0.0
OTHER: SPARES																					0	0.0
OTHER: T8 MOD 3 IR PREPROD MODEL																					0	0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST									3	3.4	4	4.5	4	4.6							11	12.5
TOTAL PROCUREMENT	0		2	1.7	3	2.6	3	2.3	3	2.7	4	3.2	3	2.5	4	3.5	3	2.7			25	21

ITEM 12

CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: \_\_\_\_\_ MODIFICATION TITLE: PDX-TRIDENT 1 TYPE (126 CELL)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: \_\_\_\_\_ Months

CONTRACT DATES: FY 2002: N/A FY 2003: N/A FY 2004: N/A

DELIVERY DATE: FY 2002: N/A FY 2003: N/A FY 2004: N/A

(\$ in Millions)

Cost:	Prior Years		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total		
	Qty	\$	Qty	\$	Qty	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
PRIOR YEARS																						0.00	
FY 2002 EQUIPMENT																						0	0.00
FY 2003 EQUIPMENT																						0	0.00
FY 2004 EQUIPMENT																						0	0.00
FY 2005 EQUIPMENT									3	3.39												3	0.09
FY 2006 EQUIPMENT											4	4.53										4	0.12
FY 2007 EQUIPMENT													4	4.59								4	0.12
FY 2008 EQUIPMENT																							0.00
FY 2009 EQUIPMENT																							
TO COMPLETE																				0		11	0.33

INSTALLATION SCHEDULE:

	FY 2001 & Prior	FY 2002				FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				TC	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						
In	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	2	1	2	0	1	0	0	0	0	0	0	0	0	0	10

P-3A

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SUBMARINE BATTERIES TYPE MODIFICATION: Shipalt MODIFICATION TITLE: LLL SEAWOLF (126 CELL)

DESCRIPTION/JUSTIFICATION: (HM009)

These are replacement batteries for SEAWOLF Class ships. Failure analyses of shipboard, and laboratory test cells has resulted in an estimated net service of 72 months.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 2001 & Prior		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC	TOTAL		
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																						
<u>RDT&amp;E</u>																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT					1	1.7			1	0.9			2	1.9							4	4.51
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT*																					0	0.0
SUPPORT EQUIPMENT (CCM)																					0	0.0
OTHER: TRIDENT PAYBACKS																					0	0.0
OTHER: SPARES																					0	0.0
OTHER: T8 MOD 3 IR PREPROD MODEL																					0	0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST									1	1.1			2	2.3							3	3.4
TOTAL PROCUREMENT					1	1.7			1	0.9			2	1.9							4	4.5

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: \_\_\_\_\_ MODIFICATION TITLE: LLL - SEAWOLF (126 CELL)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 3 Months

PRODUCTION LEADTIME: 12 Months

CONTRACT DATES: FY 2002: N/A

FY 2003: N/A

FY 2004: N/A

DELIVERY DATE: FY 2002: N/A

FY 2003: N/A

FY 2004: N/A

(\$ in Millions)

Cost:	Prior Years		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total		
	Qty	\$	Qty	\$	Qty	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
PRIOR YEARS																						0.00	
FY 2002 EQUIPMENT																						0	0.00
FY 2003 EQUIPMENT																						0	0.00
FY 2004 EQUIPMENT									1	1.1												1	1.13
FY 2005 EQUIPMENT																						0	0.00
FY 2006 EQUIPMENT													2	2.30								2	2.30
FY 2007 EQUIPMENT																						0	0.00
FY 2008 EQUIPMENT																							0.00
FY 2009 EQUIPMENT																							
TO COMPLETE																					0		3

INSTALLATION SCHEDULE:

	FY 2001 & Prior	FY 2002				FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				TC	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		
In	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	3
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	3

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