

BUDGET ITEM JUSTIFICATION SHEET	DATE February 2004
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APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy/ Budget Activity 4 - Ordnance Support Equipment	P-1 ITEM NOMENCLATURE Strategic Missile Systems Equipment (535800)							
	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	
QUANTITY								
Cost (in millions)	\$73.3	\$103.1	\$102.1	\$142.9	\$120.2	\$127.3	\$92.7	

The SSP funding in this P-1 line provides for the procurement of Strategic Weapons System (SWS) equipment for deployed SSBNs and shore support sites to support the TRIDENT II (D5) program

OTHER MATERIAL SUPPORT

A broad range of other material support equipment must be procured for deployed SSBNs, shore installations and contractor facilities. Included within this category are general and special purpose test equipment, launcher expendables, navigation principal items, test instrumentation in support of missile flight tests, and missile checkout equipment. Amounts included within this P-1 line for this category are subdivided as follows:

	(\$000)		
	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
Launcher and Handling Equipment	1,320	25,700	9,700
Fire Control Equipment	3,200	3,500	4,300
Navigation Equipment	3,000	2,800	1,600
Instrumentation/Missile Checkout Equipment	<u>1,050</u>	<u>1,200</u>	<u>8,500</u>
Total	\$8,570	\$33,200	\$24,100

Launcher and Handling Equipment: Funding in FY 2003 - FY 2005 is required to procure Launcher Expendables (namely, MK-74 Gas Generators and Launch Tube Closures). In FY 2004 and FY 2005, funding is also requested to outfit an East Coast shipyard with the launcher and handling equipment needed to establish a TRIDENT SSBN Engineered Refueling Overhaul (ERO) capability.

Fire Control Equipment: Funding in FY 2003 - FY 2005 provides for procurement of MK-98 Mod 4 Fire Control System and Support Equipment replacement items onboard SSBNs and at shore sites and for implementation of Capital Maintenance Projects at the Naval Industrial Reserve Ordnance Plant (NIROP) in Pittsfield, MA; these projects are essential to correct environmental, safety and energy conservation deficiencies.

Navigation Equipment: Funding is required in all years for replacement of worn or damaged items of inertial test equipment used at contractors' plants to support test, evaluation, and analysis of inertial instruments; and for procurement of critical components essential to maintain configuration control and equipment reliability.

Instrumentation/Missile Test Equipment: Funding in all years provides for shorebased and shipboard test instrumentation equipment in support of missile flight tests and for procurement of surface support equipment end items to satisfy replacement requirements generated by fleet-related tactical activities. The FY 2005 request also provides for procurement of, and upgrades to, telemetry and destruct systems essential to establishing a TRIDENT II (D5) flight test capability in the Pacific.

ALTERATIONS

Alterations to non-flying tactical hardware are continuing requirements for the Strategic Weapons System. Alterations (SPALTs) entail the application of available technology to eliminate personnel safety hazards, correct design deficiencies, maintain system effectiveness by resolving equipment operability problems, achieve logistic economies, and provide for shipboard subsystem D5 life extension modernization efforts. SPALT estimates include both known alterations related to resolution of specific problems as well as calculated, formula-generated alterations based on recent experience. Amounts included in this P-1 line for alterations are subdivided as follows:

	(\$000)		
	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
Launcher and Handling Equipment	2,650	1,700	2,800
Fire Control Equipment	13,770	12,800	26,600
Navigation Equipment	17,620	24,800	25,400
Instrumentation/Missile Checkout Equipment	<u>12,700</u>	<u>8,000</u>	<u>2,100</u>
Total	\$46,740	\$47,300	\$56,900

Funds are required to procure formula-generated alterations to the Strategic Weapons System launcher and fire control subsystems; to inertial, non-inertial, and Electrostatically Supported Gyro Navigator (ESGN) navigation subsystem equipment on deployed SSBNs and installed at supporting shore facilities, including the TRIDENT Training Facility (TTF), Bangor, TTF, Kings Bay, the Ashore Navigation Center, and the Inertial System Test Laboratory; to test instrumentation used on SSBNs, support ships and at the Eastern Test Range, the TRIDENT Refit Facility (TRF), Bangor, and TRF Kings Bay; and to missile handling equipment, missile test and readiness equipment, and surface support equipment. Installation of approved SPALTs is performed on a turnkey basis in conjunction with the procurement of equipment. Use of Commercial-off-the-Shelf/Non-Developmental Items (COTS/NDI) has been initiated and is being implemented in all subsystems, wherever possible.

Funding was included in FY 2002 for Fire Control alterations needed to assure a single configuration of TRIDENT II Strategic Weapon System (SWS). (The same MK-98 Mod 4, COTS/NDI-based, open-system-architecture Fire Control System scheduled for installation on the four Pacific-based TRIDENT I SSBNs being backfitted to TRIDENT II capability is being installed on the ten Atlantic-based TRIDENT II SSBNs that presently carry the MK-98 Mod 1 version.) In addition to providing for calculated Fire Control System modifications based on historical experience, funding in all years will allow for implementation of life-cycle cost control initiatives aimed at integration of TRIDENT II SWS subsystem equipment into the Fire Control system, leveraging off of the MK98 Mod 4 Fire Control design to implement the first phase of TRIDENT II SWS "Vision 2010" architecture. The product of these SWS integration efforts will be implementation of an affordable design to meet all operational requirements, while minimizing total ownership costs.

The FY 2004 and FY 2005 requests for Navigation equipment alterations will address aging and obsolescence issues by providing for procurement of an updated navigation system, employing an Interferometric Fiber Optic Gyroscope (IFOG) and capable of economically supporting the TRIDENT II SWS throughout its extended service life.

In addition to formula-generated alterations to Instrumentation/Missile Checkout equipment which are budgeted in all years, the FY 2003 through FY 2005 requests support implementation of SPALTs to the TRIDENT II M240R Data Recording System.

TRAINING SUPPORT EQUIPMENT

This category provides for procurement of, and alterations to, both tactical and non-tactical equipment required at submarine training facilities to train personnel in the operation and maintenance of launcher and handling, fire control, navigation, missile checkout, and test instrumentation subsystems. Each training facility consists of an integrated family of system and unit laboratories that interface with a central stimulation complex to provide complete and realistic training for replacement and off-crew personnel, both officer and enlisted, as required for manning of SSBNs and shore facilities. Funding in all years is budgeted to procure training unique equipment required as the result of alterations to SWS tactical equipment. The FY 2003 through FY 2005 requests also provide for updates to Training Stimulation System COTS hardware at the TRIDENT Training Facility (TTF), Kings Bay, and at TTF, Bangor; procurement of hardware for Electronic Classrooms at both TTFs; and procurement of Launcher System Control Group (LSCG) equipment for both the West Coast and East Coast training facilities. In FY 2004 and FY 2005 additional funding is budgeted for updates to MK98 Mod 4 Fire Control System training equipment at TTF, Kings Bay.

	(\$000)		
	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
Training Support Equipment	\$7,934	\$15,498	\$15,213

TRIDENT II (D5) BACKFIT

The Program of Record calls for a post-START II Submarine-Launched Ballistic Missile (SLBM) force of 14 TRIDENT SSGNs, all equipped with TRIDENT II (D5) missiles and based at two homeports (Kings Bay, GA, and Bangor, WA). This mandated 14-boat, all D5 force breaks down as follows:

10 SCN-Funded, New-Construction TRIDENT II Submarines: SSBNs 734-743, the last of which deployed in FY 1998.

2 OPN-Funded, TRIDENT I (C4) Equipped Submarines Being Backfitted to TRIDENT II (D5) Capability: SSBN 732, which recently completed its concurrent Engineered Overhaul (EOH) and D5 Backfit at Puget Sound Naval Shipyard (PSNS) and has deployed, and SSBN 733, which is presently undergoing its own EOH/D5 Backfit at PSNS.

2 SCN-Funded, TRIDENT I (C4) Equipped Submarines to be Backfitted to TRIDENT II (D5) Capability: SSBNs 730 and 731, which will commence their concurrent Engineered Refueling Overhauls (EROs) and D5 Backfits in FY 2005 and FY 2006, respectively.

Funding in this cost category is required to procure and install shipboard tactical equipment and shorebased training hardware needed to upgrade the first two designated D5 Backfit hulls (SSBNs 732 and 733) from C4 to D5 capability. (Since the second two Backfit hulls (SSBNs 730 and 731) will undergo their D5 modernization during concurrent EROs, they are therefore being financed with SCN funds beginning in FY 2002.)

	(\$000)		
	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
TRIDENT II (D5) Backfit	\$10,020	\$7,100	\$5,860

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) PROGRAM COST BREAKDOWN							DATE: February 2004			
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy/ Budget Activity 4 - Ordnance Support Equipment		P-1 ITEM NOMENCLATURE/SUBHEAD Strategic Missile Systems Equipment/34U9 Total Cost in Thousands of Dollars								
WEAPON SYSTEM COST ELEMENTS	Ident. Code	FY 02 Qty	Total Cost	FY 03 Qty	Total Cost	FY 04 Qty	Total Cost	FY 05 Qty	Total Cost	
Other Material Support					8,570		33,200		24,100	
Alterations					46,740		47,300		56,900	
Training Support Equipment					7,934		15,498		15,213	
TRIDENT II (D5) Backfit					10,020		7,100		5,860	
Total					73,264		103,098		102,073	

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