ALTERATIONS

Alterations to non-flying tactical hardware are continuing requirements for the Strategic Weapons System (SWS). Requirements primarily relate to shipboard investments in Commercial-off-the-Shelf/Non-Pr Developmental Items (COTS/NDI) SWS subsystem equipment, including periodic refresh cycles, to ensure continued reliable performance of the weapon system for its extended service life to match the OHIO class life extention. Alterations (SPALTs) also 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. Amounts included in this P-1 line for alterations are subdivided as

Total	\$000 Launcher and Handling Equipment Fire Control Equipment Navigation Equipment Instrumentation/Missile Checkout Equipment
\$106,069	FY 2010 10,117 34,020 56,658 5,274
\$124,551	FY 2011 6,521 55,441 61,874 715
\$134,041	FY 2012 7,830 46,443 79,041 727

Funds are required to procure alterations to the Strategic Weapons System launcher and fire control subsystems; to inertial, non-inertial, and Electro-statically 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 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.

Launcher and Handling Equipment: Funding provides for launcher and handling equipment alterations to address aging and obsolescence issues. FY 2012 funds are for minor Launcher SPALTS.

Fire Control Equipment: Funding in all years will allow for implementation of Life Cycle Cost Control (LCCC) initiatives aimed at the integration of TRIDENT II SWS subsystem equipment into the Fire Control System (FCS), leveraging off of the MK-98 Mod 4 Fire Control design to implement the first phase of TRIDENT II Shipboard Systems Integration (SSI) 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. FY 2012 funding provides for production costs of the submarine MOD 6 SPALT kits and pre-production of Fire Control Subsystem (LCCC/Technology SSP Alterations (SPALTS), and the production and integration of Detonator Power Assembly (DPA)/Detonator Relay Box (DRB)/Variable Ejector Group Subsystem (VEEP) SPALT/SHIPALT will continue in FY 2012 through FY 2016.

SAASM GPS Receiver. (NECM) for replacement navigator. Navigation Equipment: Funding in FY 2012 provides for Increment 4 Tech Refresh production costs, Electro-statically Supported Gyro Navigator (ESGN) replacement program, and Navigation Error Co-variance Matrix ECM) for replacement navigator. This also provides for test efforts for Selective Availability and Anti-Spoofing Module (SAASM) Global Positioning System (GPS) Receivers and GPS Antenna Redesign to accommodate

Budgeted in all years are the alterations to Instrumentation/Missile Checkout equipment. FY 2012 funding provides for Forecast Instrumentation SPALT and Flight Test Support System (FTSS) hardware.

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 Other 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 training simulation system 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 is budgeted to procure training-unique equipment required as the result of alterations to SWS tactical equipment, including those

Funds are required for software and hardware design modification, lab documentation modification, facility modification, and design and system integration, as well as procurement and fabrication of all hardware needed to support Navigation and Fire Control subsystem training at both the TRIDENT Training Facility (TTF), Bangor, and at TTF, Kings Bay. The required effort includes upgrade of the Bangor and Kings Bay Navigation and Fire Control trainers from Shipboard System Integration (SSI) increments 1, 4 and 7, Integration of Fire Control SSI Increments 1, 4 and 9 PC Simulation, and for the development of the Virtual Strategic Weapons System (SWSD) classroom trainers. Funding also addresses the need for acquisition of upgrades to the Bangor and Kings Bay TTFs resulting from tactical changes in the TRIDENT II (D5) missile under the Life Extension (LE) program. A major task in FY12 will be implementation of the training continuum for Missile Technicians as mandated in OPNAV 1500.76B, Naval Training Systems Requirements, Acquisition and Management.

raining Support Equipment	\$000
\$15,033	FY 2010
\$31,906	FY2011
\$10,638	FY 2012

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\$187,807		\$184,034		\$154,823				Total	
10,638		31,906		15,033	1			i allilli g support Equipment	a
134,041	2,577 7,830 46,443 79,041 727	124,551	2,535 6,521 55,441 61,874 715	106,069	10,117 34,020 56,658 5,274			erations Launcher and Handling Equipment Fire Control Equipment Navigation Equipment Instrumentation/Missile Checkout Equipment	Alterations Launch Fire Col Navigat Instrum
43,120	22,480 13,187 733 4,151		16,641 5,432 721 2,248		24,770 3,381 631 2,137 2,802			Fire Control Equipment Navigation Equipment Instrumentation/Missile Checkout Equipment Information technology	Fire Nav Inst
Cost	Qty	Cost 27.577	ay	33,721				Other Material Support	Other N
Total		Total	Total FY 11		FY 10		Ident. Code	WEAPON SYSTEM COST ELEMENTS	COS
	February 2011				ent / 34U9	P-1 ITEM NOMENCLATURE/SUBHEAD Strategic Missile Systems Equipment / 34U9 Total Cost in Thousands of Dollars	P-1 ITEM Strate Cost in Thous	NITY avy / BA 2	Othe:
		DATE:				WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) PROGRAM COST BREAKDOWN	NEAPON SYS		