

NDIA SMALL BUSINESS CONFERENCE

Mr. Jack Evans

Executive Director, Program Executive Office for Submarines

8 June 2009



Mission:

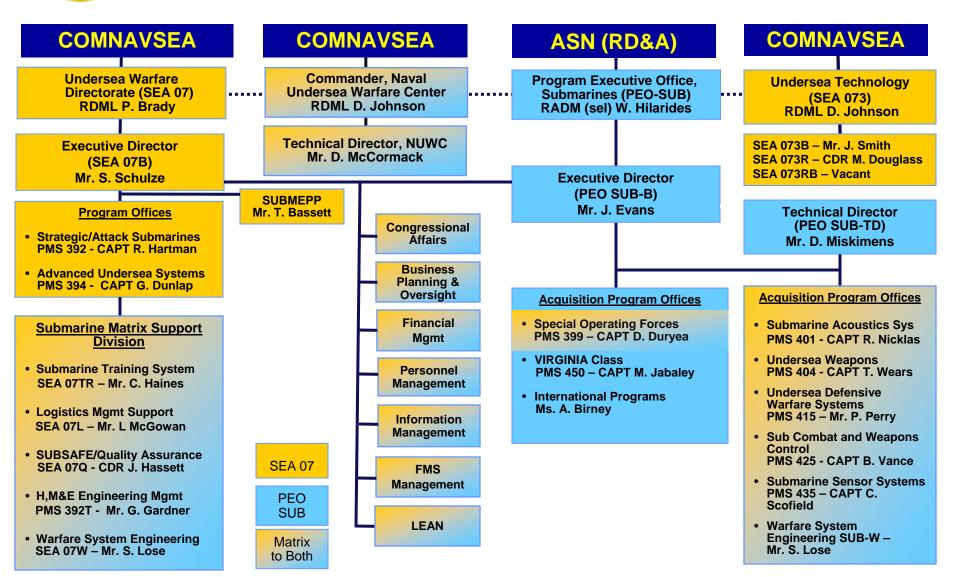
Keep America's Navy #1 in the World by Developing, Acquiring, Modernizing, and Maintaining the World's Most Capable and Cost-Effective Submarines and Undersea Systems.

Vision:

Remain the Leader in the Development and Implementation of Innovative Modernization, Acquisition, and Fleet Support Solutions for the Submarine Community.























Ships Under Contract

		Name/Hull	Auth Year	Contract Delivery	Actual or Target Delivery
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Block I (CPIF)		🌑 USS VIRGINIA (SSN 774)	FY98	Jun 04	12 Oct 04
=		📤 USS TEXAS (SSN 775)	FY99	Jun 05	20 Jun 06
00		📤 USS HAWAII (SSN 776)	FY01	Dec 06	22 Dec 06
ă		USS NORTH CAROLINA (SSN 777)	FY02	Dec 07	21 Feb 08
Block II (FPIF)		USS NEW HAMPSHIRE (SSN 778)	FY03	Apr 09	27 Aug 08
		🔯 NEW MEXICO (SSN 779)	FY04	Apr 10	Sep 09
		🎒 MISSOURI (SSN 780)	FY05	Apr 11	Apr 10
		CALIFORNIA (SSN 781)	FY06	Apr 12	Jun 11
		MISSISSIPPI (SSN 782)	FY07	Apr 13	Feb 12
	s	MINNESOTA (SSN 783)	FY08	Apr 14	Aug 13
	Ship	NORTH DAKOTA (SSN 784)	FY09	Aug 14	Aug 14
		JOHN WARNER (SSN 785)	FY10	Aug 15	Jul 15
Block III (FPIF)	MYP	SSN 786	FY11	Aug 16	Jul 16
	_	SSN 787	FY11	Feb 17	Oct 16
		SSN 788	FY12	Aug 17	Feb 17
		SSN 789	FY12	Feb 18	Aug 17
		SSN 790	FY13	Aug 18	Feb 18
		SSN 791	FY13	Feb 19	Aug 18

As of 4/23/09



VIRGINIA Class Block III Contract

- Awarded 22 December 2008
- 8 ship, 5-year, Multi Year Procurement Fixed Price Incentive Contract
- Delivers on FY12 challenge to reduce ship cost by approximately 20%
- Increases production to 2 VIRGINIAs per year in FY11 (aided by \$588M plus-up in FY08), therefore supporting force structure requirements, stabilizing the industry and driving down cost
- Incorporates cost reduction design changes, including redesigned bow
- Continues successful teaming arrangement between GDEB and NGSB
- Properly allocates risk between the parties based on program maturity
- Includes Small Business
 Subcontracting Incentive Fee

Block III Ships							
FY09	FY10	FY11	FY12	FY13			
SSN 784	SSN 785	SSN 786	SSN 788	SSN 790			
		SSN 787	SSN 789	SSN 791			





\$600M FY08-FY13 Program

3 ELEMENT STRATEGY

- Eight Ship Multi-Year Procurement Contract (Block III)
 - Legislative Proposal submitted along with Presidential Budget
- Construction Performance
 - 84 to 60 months
 - Capital ExpenditureProgram
- Design for Cost Reduction

Navy / Industry Teamwork Critical To Success



VIRGINIA Class: Reduction of Total Ownership Costs (RTOC)



Building from the Successful VIRGINA Class Cost Reduction Team



Submarine Warfare Federated Tactical Systems (SWFTS)

· What it is

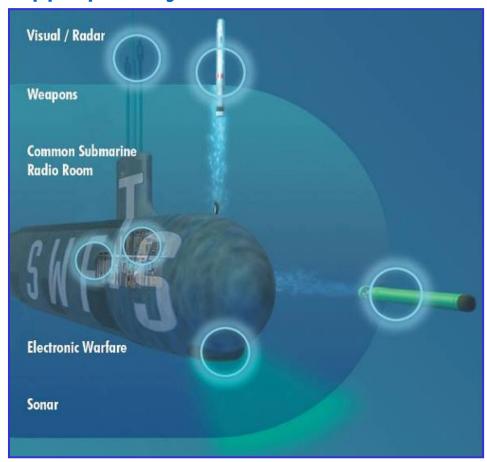
 SWFTS is system of systems engineering and management that ensure warfare requirements are appropriately allocated and tested

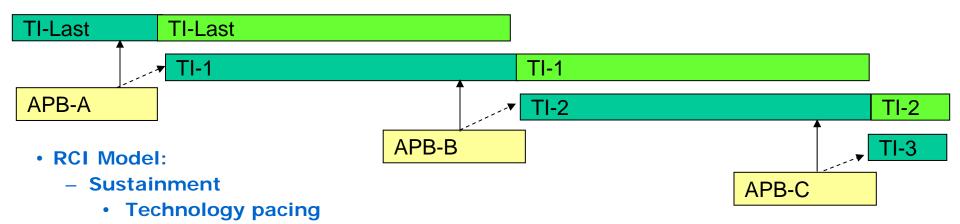
across subsystems

What it is NOT

Acquisition Program

- What it does
 - Separates the platform timeline from the electronics timeline to ensure continued mission capability
- Coordination Planning/Execution— PEOSUB TD-B





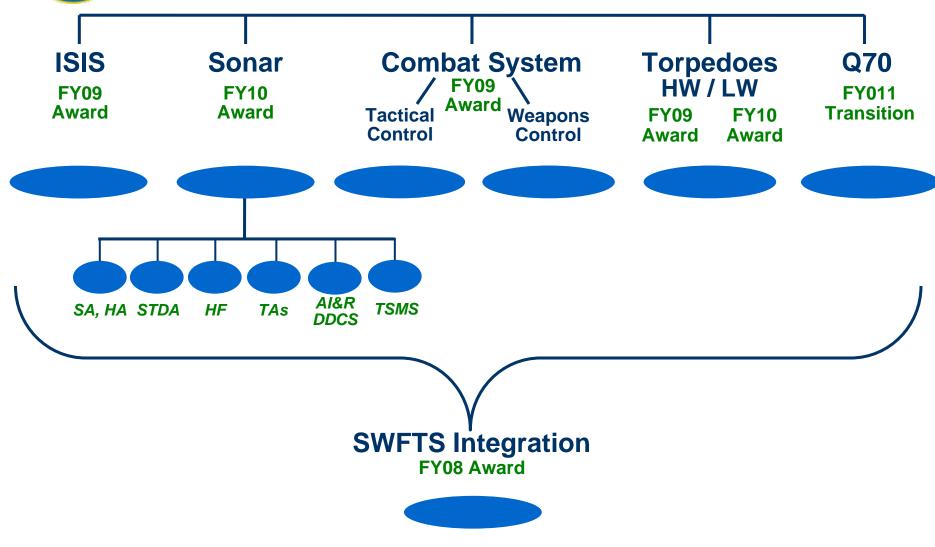
- Capability Insertion

Minimizes obsolescence

- Threat pacing
- New sensors/capabilities intro within existing footprint
- Two Cycle Model (APB 09) better aligns modernization with Training/Doctrine products
- Modernization Rules
 - Each ship gets every other TI (hardware update every 4 years)
 - Special ship groups (SSGN/SEAWOLF/Guam) will all be kept at same TI level
 - No modernization within five years of decommissioning

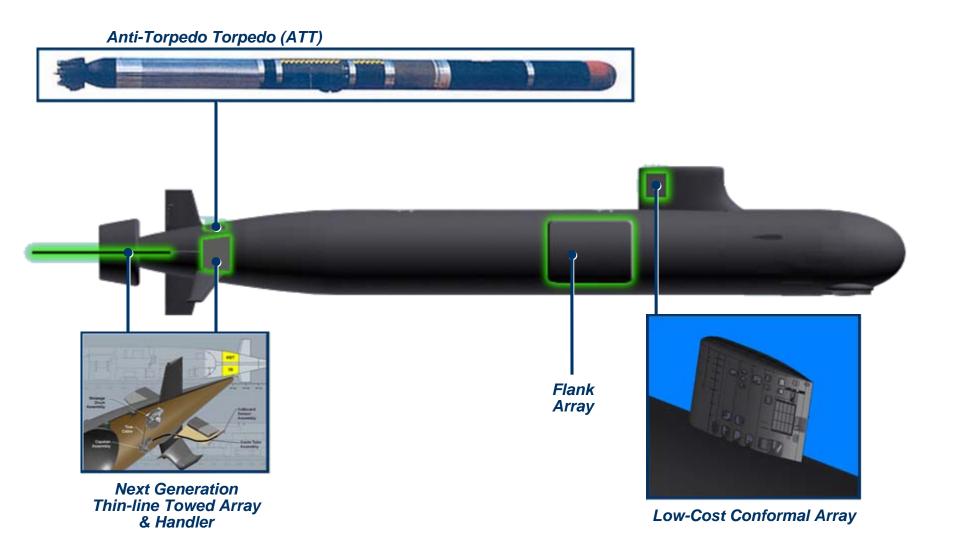
Not All Programs Are On The Same Modernization Cycle







Representative System Developments



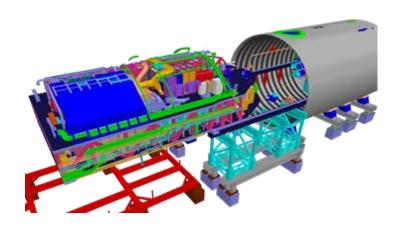


PEO SUB and Small Business

- PEO SUB has a variety of methods for contracting with small businesses
 - Small Business Innovative Research (SBIR) Program
 - Active participant in the Small Business Technology Transfer Program
 - Incentivizes contracts to include small business participation
 - Host outreach conferences and programs
 - Advocates for small business outside of NAVSEA
 - Advertises success stories

PEO SUB Supports Small Business With A Multifaceted Approach

Small Business: Real Value to PEO SUB





- Multiple Small Business
 Products used In-Service
 Submarines and VIRGINIA
 Class Submarines
 - Communications
 - Software
 - Display Console
 - Portable Weapon
 - Launch System
 - Sonar Sensors
 - Simulation
 - System Test Tools
 - Environmentally Friendly Products
 - Composite Materials



PEO SUB's Focus Areas



- VIRGINIA Class Cost Reduction
- Algorithms for sonar, fire control system, torpedoes, imaging, electronic support measures
- Submarine training technology
- Life cycle cost reduction
- Reliability improvement
- Material improvement



Team Submarine Proposed FY9.3 SBIR Topics



Topics to be approved by OSD week of 8 June

- Multi-Material Structures
- Real-time detection aid for enhancing ship's self-defense
- Universal Atmospheric Contaminant Scrubber for Submersibles
- Long Life Energy Storage Systems for Shipboard Sensor Applications
- Multi-Sensor Array Synchronization
- Secure Open Architecture Open System Technologies for Tactical Networks
- Sonar Detection / Classification Based on Material Identification
- Improved Safety in Large Format Lithium-Ion Cells and Batteries
- Opportunistic Energy Harvesting
- RF System Cost Reduction
- Submersible Navigation Techniques Available at Periscope and/or Mast Depths
- Band Limited Pulse Encoding and Signal Classification
- Innovative Damping Technologies
- Implosion-Proof SOF Mission Equipment Storage Container
- Synthetic Elements for Moving Line Arrays
- Submarine Surface Abandonment Slide
- Technologies for Reduced Source Level Sonar Systems
- Advanced Hull Sensor Array and Processing Concepts
- Innovative Mast Consolidation Concepts
- High Channel Count Optical Slip Ring
- Feedback Loop Mast Height Control System
- Transport Layer Independent Network Monitoring Capability
- Fiber Optic Cable Position Measurement System
- At-sea Reliability with Predictive Modeling
- Multi-Platform Active Heave Compensation System
- Secure Portable Systems for Tactical Networks
- Fatline Towed Array Straightening System

Reduction in Total Ownership Cost (RTOC)

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