

# All On Board



## Fleet Training

October 2009 Vol. 3

### Welcome

Welcome to this 4th quarter edition of the SOBT Newsletter, All On Board. This edition provides a review of what SOBT has accomplished this year, and where we are heading next year. But first, an overview of what information the All On Board newsletters will provide in the coming year. The January edition will cover Basic Qualification products and how SOBT can help submarine Sailors get qualified on board their submarine. The next edition in April will cover SOBT products that support watch station qualification

and performance improvement. The July edition will discuss SOBT integrated team training products (SUBSKILLSNET and ENGSKILLSNET) and how to use them on board your boat for team training scenarios. That brings us back to the October edition; the year in review with a vision for the future.

In FY09, SOBT distributed 24 new products and 24 revised products, with 68 courses still in production. The revised products were distributed to clear identified security risks and update for development and delivery standards, as well as system updates and publication changes. All new and updated training products are listed in the mission area articles.

This brings us to the year ahead. One of the reasons we need to update the development standards is to be able to deliver the products via Navy Knowledge Online (NKO) and Navy Knowledge Online Secret (NKO-S). In FY10, SOBT products will begin to appear in NKO/NKO-S, as appropriate. Getting the courses on line is another way SLC is trying to make it easier for you to access the SOBT courses. Putting

the courses in NKO will not impact shipboard delivery on your LAN, but rather enhances your ability to access SOBT training products.

### Director's Note

Previous editions have discussed the HOW and WHY to use SOBT products, now I will discuss the WHEN. Captain Swan discussed how the SOBT newsletter will be presented each quarter of the year; first quarter basic qualification, second quarter watchstation qualification, and third quarter integrated team training. Those training areas along with the ship's Continuing Training Program make up the foundation of Team Training. The WHEN is defined by each of those categories. A new Sailor reporting aboard should receive a SOBT program orientation so he will know where to get the training he needs to get qualified—His SOBT "WHEN" for basic and watchstation qualifica-

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tion starts when he receives his qual cards. Keep in mind that the SOBT products are just a step in completing submarine qualifications. SOBT will point qualifying Sailors in the right direction, but they must take that information and actually put their hands on the systems. When a Sailor is qualifying or requalifying a watchstation, SOBT has the training products for most systems on-board, which include the theory of operation, employment of the equipment, and associated tactics. ENGSKILSNET also makes an excellent tool for engineering qualifications to determine if a Sailor understands not only basic operation of the plant, but also recognizes and can recover from engineering casualties. The "WHEN" for Team and Continuing Training can be a moving target, but the flexibility of SBOT, CBOT, and SUBSKILSNET can help you fill the gaps in your schedule when systems are tagged out and you don't have time to get to the schoolhouse. The Continuing Training Toolbox lists the products to use for training evolutions to help you match the SOBT product to the requirement.

As always, let SOBT know how we can provide better products for you.

## Wardroom Training

### Wardroom/Crucibles

The collection of resources available to studious officers of the wardroom continues to expand with the release of SS AN/BQQ-10 Multi-Sensor Display (MSD) Operations for the OOD, DODUSNSLCSOBT\_07048. This training provides the junior officer with what he needs to know to operate and interpret the MSD in Control without interrupting operations. It also provides the ability for aspiring OODs to get a greater understanding of the full capabilities of the MSD by explaining all of the MSD functionality. SOBT has also just distributed SS Submarine Mine Warfare,

DODUSNSLCSOBT\_05012. Perfect for deployment preparations or tabletop exercises, this training covers everything from watch-team responsibilities for mine field entry preparation, danger/buffer zone concepts, to mine types, minefield types, use of ARCI HFA and electronic plots.

Sometimes the best way to learn is through others' mistakes, so that we do not repeat them. SOBT provides that opportunity through a number of training material including the SS USS Pasadena (SSN 752) Men Overboard, DODUSNSLCSOBT\_05156, product. This course provides an accurate depiction of events leading up to the situation, from the ship's own viewpoint. Similar products will be distributed in 2010, such as SS USS Minneapolis St. Paul (SSN 708) Men Overboard, DODUSNSLCSOBL\_02036, and SS USS Albany (SSN 753) Grounding, DODUSNSLCSOBT\_08024 will be available soon. Also in production in 2010 will be the USS Hartford collision

## Submarine Learning Center NOTE Trainer Scheduling and Utilization (TSU) Tool Update

The TSU database has been moved from the legacy server at the Submarine Learning Center (SLC) to the Secure Enterprise Access and Transition (SEAT) server at COMPACFLT. Along with this shift is an update to the application to make the site more intuitive. To set up an account at the new site, go to [HTTPS://SEAT4.NMCI.NAVY.SMIL.MIL/SSU](https://seat4.nmci.navy.smil.mil/ssu) on the SIPRNET. All data in the data base has been migrated to this new data base.

TSU is the application you are required to use to schedule trainers at your local school command.



## SOBT Navigation News

We are approaching the end of another year. I want to take the time to let you know what we have completed this year and what is coming up for the next year.

There are numerous products that will be completed by the end of the calendar year: updated SS Piloting Briefs for Bahrain, San Diego, and Groton and new SS Piloting Briefs for Toulon, France and Brest, France, as well as the newest course, SS Quartermaster of the Watch. Take the time to review these products once you have received them onboard. We strive to improve what we are delivering but we can only do this with your support and feedback.

Here are some items scheduled for delivery next year; updated SS Rules of the Nautical Road, SS Piloting Briefs Guam, Saipan, Port Everglades and Port Canaveral; new SS Piloting Briefs for Lisbon, Portugal and Okinawa, Japan and SS Advanced Navigation. Look for these to be delivered to the Fleet by mid 2010.

If you have items you wish to see added to the SOBT library, let me know. I want all the Fleet to be involved in developing the future Assistant Navigators' and Navigators' learning choices. We can only improve their abilities by providing them with as many tools as possible to make their job easier to manage. If you have any questions, lessons learned, or other feedback, feel free to contact me and we can and will work together to improve our products.

Respectfully,

## SSN 21 Class GMS

Last summer SOBT distributed a product for the submarine fleet that provided training for the SCBA, SS Self Contained Breathing Apparatus (SCBA). This product will be useful as both initial and refresher training onboard. The SCBA equip-

ment is replacing the Oxygen Breathing Apparatus (OBA), which was previously used onboard submarines.

This SOBT product, DODUSNSLCSOBT\_04003, Ver2.3, will assist the ship's training of personnel in the proper use of the equipment. With the help of Naval Submarine Schools Fire Fighting Trainer we produced a product that covers the purpose and functions of the SCBA, demonstrates the proper procedures for Donning and Doffing the SCBA, maintenance and employment procedures as well as discussing major components and their operation.

## Sonar Systems

Hello shipmates! Here is a summary of the courses we have delivered in the past year. They provide excellent training to keep our Sailors sharp.

- ◆ SS Acoustic Signal Recognition (Sonar) 6.1 provides detailed training in acoustic signal recognition including acoustic theory, sound propagation, Iofargrams of active sonar, torpedoes, and submarine contacts.
- ◆ SS AN/BQQ-10 Sonar Supervisor covers many of the knowledge requirements for qualification as a Sonar supervisor such as duties and responsibilities, required manning, tactical aspects of sonar search, and detection and classification scenarios.
- ◆ SSN 688 BSQ Sonar Systems provides a basic overview and understanding of the AN/BQQ-10 Sonar System for the SSN 688 class submarine including a functional description, location of the major components, displays, controls and indicators. This course also discusses basic principles of Sonar and the ocean environment.
- ◆ SSN 688 AN/BQN-17 Fathometer Operator pro-



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vides knowledge on specific fathometer operations including the displays, controls and indicators, modes of operation, chart recorder interpretation, and emergency situations.

- ◆ SS AN/WLR-9 is a seven lesson self-paced course designed for submarine personnel operating and employing the AN/WLR-9.
- ◆ SS AN/BQQ-10 Active Intercept and Ranging introduces the Sonar operator to the AI&R system. The topics cover components, APB 04 employment, and APB 06 employment
- ◆ SSN 688I AN/BSY-1 Bottom Sounder Operator is a self-paced course designed for junior enlisted personnel beginning qualifications as an SSN 688I AN/BSY-1 Bottom Sounder Operator. Each lesson is designed to introduce them to the different areas of interest of their watchstation.

Currently under development is the AN/BQN-17A course, which is being updated to cover the requirements of the Submarine Operations Manual. As always, we are looking for suggestions on updates for existing courses and ideas for new ones as well. Send me an email or give me a call with your ideas

## Mine Warfare

### Mines Killed Over 600 Afghans Last Year

That amounts to over 50 deaths per month; a sobering thought but what does it have to do with submarines? Just like the battlefields in Afghanistan, many countries have extensive minefields protecting their territorial waters. Although sea mines are different than land mines, they are just as deadly. A single sea mine could devastate a submarine and kill its entire crew. Proper training in mine warfare will greatly increase your chances of survival if you encounter a minefield. SOBT has recently revised a product that provides training in

this unique mission area.

The newest revision to SS Submarine Mine Warfare DODUSNSLCSOBT 05012 provides tactical guidance to employ our advanced sonar systems and the latest intelligence. It is a three hour course designed for individual training that includes topics on mine types, minefield types, use of ARCI /HFA and electronic plots, preparation for mine field entry, submarine signatures, danger/buffer zone concepts, use of the outboard, and watch team organization. This product takes you on an interactive journey from pre deployment preparations in port to penetrating a minefield and surviving your deployment. It culminates with a comprehensive exam to test your knowledge and includes references and websites to obtain the most current mine inventories and capabilities intelligence.

Today's submarines are tasked with increasingly diverse missions. Crew members must undergo extensive training to successively deploy their submarine in a variety of hostile conditions. SS Submarine Mine Warfare will prepare you with the knowledge to maximize your submarine's capabilities when deployed in mined waters.

## Fire Control

In 2009, SOBT brought you a new release of the ADCAP Post Launch Trainer- Version 14.0. This simulator has been substantially improved over its predecessor and provides support for training on ADCAP's: 10.4.2, 21.8.1, 22.1.2, ACOT 31.1.1, & CBASS 35.1.5. The scenarios within APLT can be selected to provide training for milestone recognition, telemetry communication (TELCOM), wire guidance commands, and other key run events.

Target Motion Analysis has been a noted weak area in recent TRE examinations. SOBT product ID DODUSNSLCSOBT\_07029, "SS BYG-1 TMA PLOTS" provides tools to assist you in training your watch team. Specifically, the AN/BYG-1 TI-04/06 in-

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cludes the controls and data available within the overall Contact Management screen, CEP/Time Bearing Plot, Time Range Plot, Time Frequency Plot, and the Parameter Evaluation Plot. It also provides training on the operation of the AN/BYG-1 Combat Control System to provide TMA Plotting operations to manage received data during situations of varying contact densities. This year, SOBT also updated the "MENTAL TMA TECHNIQUES," which contains a training course, a drill and practice section, as well as an end of lesson exam.

Looking ahead - CBOT version 15! When released, this product will feature TI-6 with the following tracking functionality: Contact initial gain sphere/towed array and multi-leg contact zig. Additionally, I'm soliciting your feedback regarding your experience with the TRE TMA exam questions. Your inputs will directly effect potential changes to our products.

## Hull Mechanical, Electrical and Safety

A review of the year shows that we have completed and distributed a variety of SOBT courseware in this area. Included in this list are the following:

- ◆DODUSNSLCSOBT\_02027 Ver. 2.20 SSN21 (Class GMS Operator and Mechanical Maintenance)
- ◆DODUSNSLCSOBT\_09001 Ver. 1.00 SS (SVRLA Battery Familiarization Course)
- ◆DODUSNSLCSOBT\_95001 Ver1.11 (SS Lookout)

Just recently completed and approved for distribution is the updated DODUSNSLCSOBT\_03173 Ver. 1.10 (SSN 688 6L16E AEOG) course.

This course is listed in CANTRAC as a prerequisite for the formal Schoolhouse course (A-652-0087).

In progress now are a variety of SOBT Basic Submarine Qualification course updates. There are 20 Basic courses including both the SSN 688 and 21 class submarines. These are listed in the SOBT catalog as unavailable. The updates will fix classification and programming issues and will also include some programming upgrades. Distribution to the applicable units will be automatic upon completion of the updates.

SOBT has just started development of seven technical courses that will provide onboard training to the SEAWOLF class for topics that do not have formal training. These courses cover ICCP, 155 VDC, Power Conditioner, Circuits D and J, Ship's Sound Silencing, and the OK-276C. These courses are due to be completed in the summer of 2010.

## Weapons

Over the past year, SOBT has developed some courses that will aid in the training and qualification of junior personnel. For those of us that work with the torpedoes, we have two new titles: SS ADCAP Functional Description and SSBN Torpedo Room Watch (TRW). The ADCAP product covers the history of the ADCAP program and breaks down the different MODs of the MK 48 ADCAP Torpedo. The SSBN TRW Quals course is designed for use not only by new TMs as they step on the ship, but also by senior personnel as they are preparing to transition back to life on a Trident. The layout of the course matches the SSBN Torpedo Room Watch qualification card. As the Sailor completes the course in conjunction with the reading and learning of the ship's systems, he will have a better understanding of what it is to be a qualified Torpedo Room Watch.

In a very short time, we will start distribution of the new and improved Mini-WLCTT. This simulator update will feature better graphics, more improved functionality, greater flexibility, and the

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ability to run the program across the ship's LAN, which means that there will be no more bulky suitcases full of computers that the ship has to store somewhere.

As always, one way to help the SOBT office with the development of its products and the quality of the training that is provided to the fleet is to comment on what is currently available. So, if you have any feedback on the existing courses that are provided by SOBT, or if you would like to provide a topic for further consideration, please contact me.

Thank you for your time and have a great Navy Day!

velopment of the electrical distribution products, so E-Div will not feel left out. Does your submarine have, or is in the process of getting the Type 2 Microprocessor? For our fellow 688 Sailors we have completed all of our Type 2 Microprocessor products and they are currently available onboard today. Do you want to learn a little more about reverse osmosis? Coming in 2010 we will deliver a SOBT product like none other, a comprehensive review of the reverse osmosis and distilling plant system for all classes of submarine. That's right, ALL classes! If you want to learn about the SSN 774 RO unit, or the SSBN/SSGN 726 RO unit, or even the SSN 21 Class Distilling units you will have it within a year. The days of only having two people onboard that actually know how these systems work is over, the secret is out and coming to a submarine near you.



## Nuclear Training

### Year in Review

**SSN 688 ENGSKILLSNET:** Is your training program missing something and you just cannot figure out what it is? Are you preparing next year's training plans and want to add some extra interaction? Then ENGSKILLSNET is just what you are looking for. This year we finished the latest and greatest version of ENGSKILLSNET which greatly improved the instructor interface to allow the instructor easier control for inserting casualty situations. In addition to the program, SSN 688 EN-SKILLSNET is now fully certified for use on SUB-LAN Compose 2.03 and 3.01. We have received the feedback from the fleet and have greatly improved the product to ensure maximum functionality for the ships LAN system.

**BEQ:** Are you new to the Engineering Department of the finest submarines in the Navy, the Virginia Class? Get a leg up on the competition and try our BEQ products. This year we completed all of the primary mechanical systems and have started the reactor instrumentation and the secondary mechanical products coming to a submarine near you in Spring, 2010. Next year we will start de-

## Communications

Although we did not distribute any new products this year, we are working on several updates for FY-10. In the next couple of months we have a few exciting updates to our products on their way to the fleet. First, we have an update to the EMI Familiarization Course; we are combining the EMI Familiarization for Officers and Technicians into one course. Second we have updates to the AN/WRR-12B for Operators and Maintainers.

If you have any suggestions for new SOBT courses, updates that you would like to see or just comment on SOBT in general, feel free to utilize the SOBT Feedback Form and send us your opinions.



## On the Front Cover:

SAN DIEGO (Oct. 16, 2008) Air and water gush from the ballast tanks of the Los Angeles-class fast attack submarine USS Hampton (SSN 767) as it submerges off the coast of San Diego for a six-month deployment in the western Pacific Ocean. U.S. Navy photo by Storekeeper Chief Petty Officer Michael Murphy (Released)