

Sonistics SMERAS Capabilities 2014

global promotion & support

Submarine Escape, Rescue, Abandonment and Sea Survival Systems (SMERAS) **Subject Matter Experts**

Experience and a Working Knowledge available:

1. Submarine Guardbook (UK BR 241-3)

The Guardbook is a simple but comprehensive guide to Submarine Escape, Rescue, Abandonment and Survival (SMERAS) following a submarine incident.

It is used as the last resort guide and instruction manual when all normal command and control has been lost due to the incident.

Within the Royal Navy familiarisation of the contents the Guardbook form the basis of much of the SMERAS training delivered at SETT, Gosport.

Sonistics has authored the Astute, Vanguard and Trafalgar Class Guardbooks (GB) for the RN, the Walrus Class GB for the Royal Netherlands Navy and the Sauro Class GB for the Italian Navy.

Sonistics SMEs have directly advised the Australian, Canadian, Norwegian and Swedish Navies in their GB production.

SMERAS training aspects derived from the GB will include the following:-

Dissub Initial Actions Immediate Tower Escape Rush Escape Planned Tower Escape Tower Escape Time Guide **Rescue Preparations** Waiting Limits **Tower Venting** CO₂ Limits

Senior Survivors Guide Water and Rations **Communication Codes Escape Tower Preparations Unmanned Tower Run** Tower Flood Cycle - Manned Draining Down the Tower Last Man out Drills **ELSS Pod Receiving**

Rescue by Submersible Preparations **Escape Stores and Equipment Atmosphere Monitoring Instructions**

Control of Carbon Dioxide

Control of Oxygen Chlorine Gas Monitoring

Air Purification Stores Locations

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SMERAS

Submarine Escape Rescue and Abandonment Systems

2. SMERAS Training

Sonistics has contributed to the current SMERAS TNA, designed subsequent training courses and delivered the training to customers in several countries.

Training delivered has been in accordance with JSP 822.

Sonistics has delivered bespoke SMERAS Training to all levels of submariner of many nationalities. (Training has also been delivered to civilian contractors as required.)

Escape training delivered in the past has been both pressurised and non-pressurised.

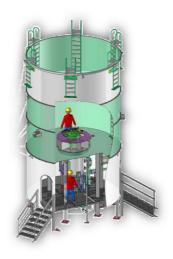
Examples of SMERAS training courses designed and delivered:-

Senior Survivor
SM Requalification
Pre-qualification
Sea Survival
Sea Survival Equipment Maintainer
Hyperbaric Chamber Operator
Atmosphere Monitoring and Control
Nuclear Monitoring
International Training
SF Training
Diver Training
SMERAS Training (Submarine Based) in Faslane, Devonport and Barrow.
SETT Instructor Qualification Training Courses

3. Training Facilities

Sonistics is the only UK Company to deliver 'In-Country' Submarine Escape and Sea Survival training to a foreign navy using their own local facilities.

Sonistics can design and deliver an escape training capability to your specific requirements.



4. Training Exercises

Escapex - Conducted escape training exercises from RN, RNLN and ITN submarines

Rescuex – Sonistics has direct experience, including operational, of rescue training exercises utilising many submarine rescue services operating with various nationality submarines

Abandonex – Conducted abandonment training from RN submarine.

Survivex – Conducted prolonged survival training exercise on RNLN submarine. This exercise replicated survival in a DISSUB (Distressed Submarine) and included all aspects of atmosphere monitoring and control using emergency stores.

International NATO SMERAS Training Exercises – Organised and participated in many aspects of multi-national SMERAS exercises such as Sorbet Royal and Bold Monarch

5. SMERAS Equipments

Sonistics has an in-depth working knowledge and experience of the following SMERAS equipments. (This includes all training associated with these equipments.)

Hale Hamilton Escape Air Systems

Habetas Escape Air Systems

Escape Towers – Single and two man from various classes of submarine from many navies

Rush Escape Equipment

Submarine Escape Suits – manufactured by RFD Beaufort, Texcon, BFA and Mustana

Atmosphere Monitors – fixed ships systems and portable devices.

Atmosphere Control Systems

Atmosphere Control – Emergency Stores e.g. Micropore, Molecular, Analox and Draeger

Alertment/Communication Devices – Includes SEPIRBs, PLBs, tethered buoys and GateWay Buoys

Rescue Seats

Rescue Systems – Includes all international rescue capability

Hyperbaric Transfer under Pressure Systems

Hyperbaric Portable Stretchers

Hyperbaric Shore based Chambers

ELSS Pods and Receiving Bags

Mini Pods

Abandonment Suits

Abandonment Liferafts - Undercasing - manufactured by Babcock or HDW

Abandonment Inflatable Freeboard Extender

6. MoD Procurement Process -

Sonistics has direct knowledge and experience of the MoD procurement Process having participated in the procurement processes for the following:-

Astute Class SMERAS Capability

NATO submarine rescue system (NSRS)

Submarine escape air systems

Abandonment systems – Undercasing liferafts and Inflatable Freeboard Extender

Escape suits

Abandonment suits

Lifejackets

Atmosphere monitoring and control systems

Emergency atmosphere monitoring and control stores

Survival stores

Chilled water plants

Aerosol fire fighting system

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