



CASE STUDY

Training Solutions

Technical support to the Maritime Trainers and Simulation IPT

SEA provides general technical consultancy support for training systems and simulators to the Maritime Training Systems IPT (MTS IPT). The contract also makes provision for SEA to provide on-site support to the Royal Navy end users at the Maritime Warfare School, HMS Collingwood in Fareham and Southwick Park (formerly HMS Dryad).

SEA is also involved with the Maritime Composite Training System (MCTS) and Versatile Maritime Training, including bringing training closer to the ships in the form of the new Waterfront Training and Education Centres (WTECs) and e-learning overall. This is in addition to the continuing support for the IPT's legacy training systems.

Sonar 2054 Human/Computer Interface Trainer (HCIT)

SEA provided project support to the MoD for the preparation of a Requirement Specification and the Tender Assessment for the Sonar 2054 HCIT hardware upgrade and additional lesson material. The CBT-based system included the provision of a Sonar 2054 representation for the Active and Intercept aspects of the Sonar and required extensive liaison with the Submarine School Training Staff and the prime contractor (SERCO).

Sonar 2054 Towed Array Handling System Simulator (TAHSS)

SEA designed and developed the TAHSS for operator and maintainer training purposes at the RN Submarine School (RNSMS). Since the large mechanical structures of the Towed Array Handling System are omitted from the RNSMS, the TAHSS provides a form of simulation that allows the Control Console to perform as though connected to a real set of Outboard Equipment. The TAHSS used in this manner with the Control Console, is able to provide an aid for operator and maintainer training. Under this contract SEA produced real imagery data to provide a realistic interactive 'walk through' of the Sonar 2054 TAHS. The equipment was designed using standard COTS PC and interfacing technology. SEA also developed some special to type hardware.

Sonar 2050 Sub Team Trainer

SEA provided project support for the Training Needs Analysis, the preparation of a Requirements Specification and the Tender Assessment for the Sonar 2050 Sub-Team Trainer. This trainer included the provision of a 16-student CBT system providing basic operator skill training and a separate facility for the sub-team training element. The sub-team trainer included:

- 2 representative frigate Operation Rooms each containing 4 generic operator consoles. Consoles can be re-configured to emulate ADAWS, CACS or SSCS command systems. COTS representations of Command system elements for the ASWD, PWO(U), AC(H) and AcPS.
- Generic and GFE Operations Room associated equipments including communications and weapon control panels integrated with COTS PCs.
- A Generic Radar representation.
- 1 part GFE Sonar 2050 set including the operator console and supporting DP NEP cabinets. Integrated or separate operation of the Sonar 2050 for both Skill and Sub-Team Training.
- Briefing/debriefing facilities.
- Full exercise control and instructor monitoring facilities.