

Naval Vessels

Astute Class Submarines



Photograph courtesy of BAE systems

The Challenge

The Royal Navy's newest super-submarine, Astute, was launched on the 8 June 2007, by HRH The Duchess of Cornwall at the BAE Systems shipyard in Barrow in Furness, Cumbria. Astute is the first nuclear submarine to be launched in the UK for almost a decade. She has been built in the UK using the latest and most advanced naval engineering techniques. Construction has been described as more complex than that of the space shuttle.

Far bigger and more potent than the current class of attack submarines, this super stealthy vessel is almost 100m long, and weighs 7,400 tonnes. She will never need to be refuelled and her advanced on-board life support systems mean she can circumnavigate the globe without needing to surface.

Tyco Fire & Integrated Solutions were commissioned to install our highly efficient T2000 digital addressable networked fire detection and alarm system and portable repeater in the Astute which represents the first of 3 Astute class Submarines

to be built. Following this success, Tyco have already supplied equipment for the other boats.

The T2000 systems are the first of their type to be fitted in submarines and reflect their vital fire detection and alarm functional efficiency and their ability to interface seamlessly with other parts of the boats systems.

Thanks to the powerful software of the T2000, each point of detection can be given a "tailor-made " response text message to help rapidly locate the source of a potential fire in its earliest stages to help the fire-fighting crew to prevent a small fire developing into a large life threatening one.

Software configuration can be carried out on site, with the minimum disruption and more importantly, without the avoidance of system down time. Correct execution of the software is ensured by micro-processors that perform watchdog functions to meet the stringent maximum system requirements of our BAE Defence Systems clients.

Other recent projects include:

- Type 45 Destroyers
- Type 23 Frigates
- LPD ships HMS Bullwark and HMS Albion
- Royal Fleet Auxiliary Bay Class LSDA vessels Cardigan Bay, Largs Bay, Lyme Bay and Mounts Bay
- Fast Patrol Boats for the Italian Navy
- Frigates for the Malaysian Navy
- Frigates for the Brunei Navy
- Patrol vessels for the Indian Navy
- Patrol vessels for the Trinidadian Navy

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