

# Naval Vessels

## RFA Bay Class Landing Ships

### The Challenge

The Royal Fleet Auxiliary Service (RFA) is a civilian manned fleet, owned by the Ministry of Defence. Its main task is to supply warships of the Royal Navy at sea with fuel, food; stores and ammunition which they need to remain operational while away from base.

It also provides aviation support for the Royal Navy, together with amphibious support and secure sea transport for Army units and their equipment.

Tyco Fire & Integrated Solutions were commissioned by BAE systems to install a Fire Detection and Alarm System (FDAS), a local application watermist system and a Rapid Response Spray System (RRSS) on board the RFA Bay Class Ships Cardigan Bay, Largs Bay, Lyme Bay and Mounts Bay. These systems were designed to integrate with our highly efficient T2000 digital addressable networked fire detection and alarm system.

The Fire Detection & Alarm system comprised of three T2000 digital addressable control systems per ship networked together detecting Fire and Smoke with nearly 800 points monitored. This system in turn interfaced with the ships Platform Management System (PMS) via a CCU2 MODbus interface system.

The ships generator rooms were protected by a local applications watermist system and controlled by a T891 control panel. Although the Rapid Reaction Spray System also interfaced with the PMS system, each Magazine was protected independently by the RRSS by a T1000 digital addressable control systems. The system was also designed so that each magazine can also be remotely drenched.



Photograph courtesy of the Royal Navy

### Other recent projects include:

- HMS Astute Class Submarines
- HMS Type 45 Destroyers
- HMS Type 23 Frigates
- LPD ships HMS Bullwark and HMS Albion
- 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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