Cruise Liners

The Challenge

Today’s modern cruise liners contain all the hallmarks of sophisticated opulence with sweeping staircases, soaring public rooms, a grand ballroom, and a 360° promenade deck. Some cruise operators such as Cunard employ one staff member per couple to ensure that its renowned White Star Service is always assured.

Cruise liners are complex environments with a number of unique characteristics. These including seasonal staff changes, language barriers and short-term guests in unfamiliar surroundings.

With these factors in mind, Tyco Fire & Integrated Solutions has developed a wide range of “stand-alone” and integrated fire and safety systems to significantly reduce the risk to human life, property and ongoing business operations of the ship, especially when at sea and far from land.

Our Integrated Risk Management Approach to the protection of the Cruise Liner Leisure Industry coupled with our proven track record based on over 60 years experience has gained us preferred supplier status within the marine industry.

Our Integrated Fire and Security strategy for general areas includes:

- Automatic fire sprinkler systems
- Fire detection and Alarm systems
- Voice Evacuation and Public Address systems
- Low level lighting evacuation systems
- Access control and Intruder alarm systems

a vital part of your world

Fire & Integrated Solutions
These are backed up by fire & safety doors, fire extinguishers and hose reels particularly in corridors and public areas that are critical to evacuation.

Higher risk areas requiring special protection can be protected with stand-alone independent systems. For example, deep fat fryers in restaurant kitchens and cafeterias require customised protection such as IMO approved Kitchen fire suppression systems due to the high fire risk involved.

Higher intensity fire risks within critical areas can be protected by stand-alone high or low pressure water mist systems. Watermist technology is extremely efficient in controlling and extinguishing high intensity hot fires within critical areas.

In the event of a fire, they rapidly bring the fire under control and extinguish the fire. The cooling effect of MicroDrop® high pressure water mist on hot metal surfaces is ideal in preventing re-ignition of the fuel supply to the generator.

Watermist systems really comes into their own for guest accommodation areas where there is a need for faster re-instatement of bedrooms after the effects of a fire so that they cause very little disruption to the ship’s daily operational activities. The safety of guests within these areas is further assured by a range of sophisticated access control and intruder alarm systems.

Whether at work or at play, communications at sea are vital requirement. Keeping the communications equipment and electrical infrastructure safe from the threat of fire can be achieved by protecting process control rooms, Internet Service Provider rooms and sensitive EDP rooms with gaseous fire suppression systems such as Novec.

The need to protect the ship’s external superstructure is just as important as protecting its interior. With this in mind, the marine fire experts working within Tyco Fire & Integrated Solutions have developed a fire suppression system to eliminate the potential threat of a fire developing within ships balconies.

This system was designed for a typical cruise ship with between 720 and 877 balconies with 6 vertical sections covering 4/5 decks with each section covering between 55 and 75 balconies.

For further information contact your local Tyco Fire & Integrated Solutions office on: tfis.marketing.uk@tycoint.com or visit our website at www.tycomarine.com
Cruise Liners
Crown Princess

The Challenge
With the choice of 14 ships travelling to the four corners of the globe, Princess Cruises take passengers to more destinations than any other cruise line.

They pride themselves in treating their customers to a cosmopolitan, relaxed atmosphere, providing a wide variety of daytime and evening activities and entertainment, coupled with a high standard of American-style 'no problem' personal service, and the freedom of passengers to choose what they would like to do, when and where.

With so many passenger facilities available, the need to protect the passengers, crew, the ships interior environment and its exterior superstructure from the threat of fire is of paramount importance.

As a preferred supplier to Princess Cruises, Tyco Fire & Integrated Solutions were commissioned to protect the Crown Princess with an integrated fire risk management approach that encompassed a wide range of fire and safety systems.

These systems have been the result of intensive and proactive research and development acquired from working in partnership with the marine industry and marine approval authorities for a period in excess of 60 years.

Fire & Safety systems provided include:
- Fire Detection & Gas extinguishing systems
- Engine room fire suppression systems
- Balcony fire suppression systems
- Voice Alarm & Public address systems
- Door Holdback systems
- Ships Hospital patient safety systems
- TV & Radio reception and smart wiring distribution systems
- CCTV surveillance and alarm systems
- Access and Intruder alarm systems

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a vital part of your world
Cruise Liners

P & O Oriana

The Challenge

The Oriana offers a lovely blend of authentic and modern experiences within the most elegant of surroundings. From restaurants to bistro’s and grills through to the theatre, casino, cinema and bars, the Oriana provides classic cruising at its best.

With so many passenger facilities available, the need to protect the passengers, crew, the ships interior environment and its exterior superstructure from the threat of fire is of paramount importance.

As a preferred supplier to P & O Cruises, Tyco Fire & Integrated Solutions were commissioned to protect the Crown Princess with a Minerva T2000 digital analogue fire detection and alarm system. Designed and built to BSEN ISO9001/2 and approved by all the major marine authorities, the T2000 system is ideal for digital addressable detection for new, refurbished and re-fitted detection systems. The decision to sound the alarm is made at the controller allowing adjustments and compensations to be made for changes on environmental conditions. In short, providing maximum security whilst minimising the risk of false alarms.

These systems have been the result of intensive and proactive research and development acquired from working in partnership with the marine industry and marine approval authorities for a period in excess of 60 years.

Other Fire & Safety systems provided include:

- Automatic fire sprinkler systems
- Fire detection and Alarm systems
- Balcony fire suppression systems
- Specialist foam, watermist, inert and chemical gaseous fire suppression systems and gas detection
- Voice Evacuation and Public Address systems
- Low level lighting evacuation systems
- Access control and Intruder alarm systems
- Door Holdback systems
- Piracy Control Systems

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