

Case Study: Princess Cruises – Life Safety



Application

Integrating life safety equipment, control system and annunciator using LonWorks and Modbus.

Problem

To implement a functional lifesafety system for less than then \$300,000 our customer was quoted by a major Building Automation company.

To do so without major installation work.

To do so without interfering with the operation of the ship.

Solution

There are 20 cold storage units in different locations on the ship used for the storage of food, beverage and some other items. The cold rooms are effectively confined spaces and a human can only enter the room if there is a life safety system. The ship is 25 years old. The life safety system failed, and no replacement components could be obtained.

By reverse engineering the cold room controls CAS was able to design a fail-safe system which utilized existing cables and installed components which had not failed. A new annunciator in the engine control room was implemented.

Results

Customer saved over \$220,000 on each of two ships. CAS designed and built the annunciator, provided written instructions and drawings for installation. During installation support for the cruising ship was provided by phone and email. Installation and testing were completed in 2 days by 2 people.