

## Use Case: Hazardous Industry

# Site-wide emergency call-point network



### The Challenge

A new site-wide alert-point solution was required to replace an existing system which had been in operation for decades and potential failure was a growing concern. As the risk of fire and explosion was a high hazard for this site, a replacement system was required to be implemented as soon as possible with as little interruption to availability as could be managed.

This client required a fully networked, site-wide call point system to facilitate the reporting of fires (or other emergencies) to a main control room where the event could be controlled and managed.



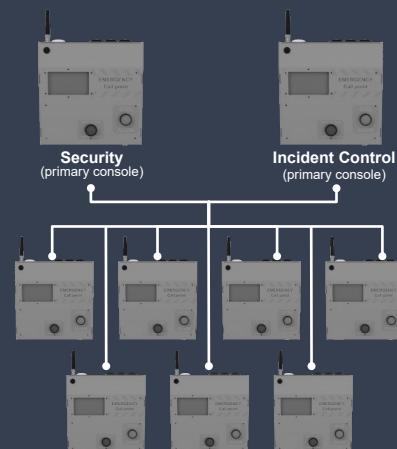
### The Solution

Sigteq designed and built 9 call-point consoles to facilitate the reporting of incidents and emergencies and provide access to a secure voice channel.

When a console is activated using either the front SOS button or an external E-Stop arrangement (in AtEx environments) the console triggers all other consoles on the network. Consoles equipped with external sirens also activate. The ID of the activated console is shown on all displays and a secure radio discourse is opened between all consoles and the Incident Control Centre so the reporter can speak with Incident Control. The conversation is broadcast from all call-points on site and can be cancelled by Incident Control.

### The Response

As part of this project, Sigteq worked with several key teams and stakeholders to get a 360° understanding of the purpose and key features of the existing fire phone system and what would be required in the new solution. As Sigteq also manage the radio and emergency call-out systems on site, we were able to incorporate these aspects in the design of a custom call-out console solution which offered a back-up network connection as well as additional control to Incident Controllers.



- 9 emergency call-points
- 2x primary consoles
- Radio communications
- Siren control
- AtEx E-stop trigger
- Conversation broadcast on all consoles
- Alerting console ID shown on all consoles
- Primary consoles can cancel alert process
- Back up network (Ethernet)

### The Results

The 9 consoles were quickly installed on site and stringently tested. After fine tuning of siren volumes and the addition of hand-held microphone attachments, the consoles fully took over from the legacy system. The site received an upgrade on their previous system with no interruption to their protection. The new system provided them with a more robust, reliable and future-proof solution and soon two additional consoles were added to the system with further plans to expand.

