

Case Study: Wembley Stadium construction site warning system



Temporary Construction Site Alarms at Wembley

E2S, a leading independent manufacturer of audible and visual signalling devices, and PACSCOM, a radio telemetry specialist, joined forces to supply John Sisk with a radio-based audible warning system to give open area protection on the Wembley Stadium construction site.

The Wembley system enabled any worker to give a warning if a fire or other dangerous incident occurred. The system consisted of six A121 sounders arranged in three clusters of two devices and it was initiated from any of the seven manual call points (MCPs) located around the site. The MCPs, were attached to a PACSNET 300T radio transmitter which communicated with the master control panel by radio. When it received a break glass signal, the master control panel

activated all or some of the A121 sounder clusters by radio communication with battery backed slave panels with local wiring to the sounders. The sounders used, have a wide effective range in an environment with an ambient noise level of 70 - 80 dB and bespoke recorded messages such as "small fire or other safety incident" and "full site evacuation" are possible. The central panel continually monitors the health of all elements of the system, with a check signal received hourly from every radio device.

Such systems will be particularly useful on a temporary basis when construction work is being carried out on large or congested sites. John Sisk is at the forefront of applying best practice in this regard, established in process sites to meet obligations under the Control of Major Accident Hazard (COMAH) regulations.

The system is modular and easy to configure when deployed at a new site. Up to 64 break glass/radio units can control up to 48 sounder clusters, enabling the protection to be extended as required; the break glass call points and sounders can be located up to 5000 metres from the MCP.

The new version of the A121 sounder, A121 AX Appello can store up to 2 minutes of content and play it back with excellent clarity. The recorded messages such as voice messages, music or sound can be recorded with built in microphone or line-in audio input and it is stored directly to non-volatile memory.

For further information about the A121 range of sounders, please follow the link below, or search online:

- [A121AX Appello X the next generation of user recordable alarm sounder](#)