

Case Study

Doosan Babcock



“The Safety Pack Management System has allowed us to move to the next level in site control. Utilising Web technologies and providing centralised, multi-user access has allowed the company to enhance its control of site operations and enforce corporate standards whilst reducing resource requirements and costs.”

Alex Meldrum—Project Manager

Doosan Babcock designs, supplies and constructs advanced steam generation technology for the power industry. They develop some of the cleanest, most efficient coal-powered plant in the world. Doosan Babcock are also a leading energy services company operating in the thermal power, nuclear, oil & gas and petrochemical industries. With global headquarters in the UK and over 150 locations worldwide, Doosan Babcock employs around 5,000 personnel.

Business Needs

When working on the large sites which span acres and involve dangerous process, like the petrochemical sites with which Doosan Babcock are involved, they must ensure the strictest level of Health & Safety compliance throughout the workforce.

To do this, the company has developed a robust system for cataloguing the myriad hazards that exist. These include confined space processes, lifting studies, PPE requirements, COSHH, method statements, as well as risk assessments for the entire site, amongst others.

The problem was that these processes were controlled locally from a laptop or PC. Using Microsoft Access, Doosan Babcock had created a well defined system for controlling and collecting data, but this process was not scalable and was single user. This meant that each site operated in isolation to the others, and that there was only a single point of access to the system on each site, which slowed down the process and limited the ability of the management team to update and extract information. Maintaining consistency of corporate documentation across multiple sites was also difficult, and the distribution of the MS Access system was restricted.

The company felt that a more dynamic system built around the latest technologies would help rationalise standards across all sites, allow simplicity of control and give greater levels of access to project managers and team leaders. They also felt that centralising the data would increase efficiencies and reduce bottlenecks, as well as allowing simplified trend analysis and ensuring the rigid application of corporate standards.

The Solution

Following a thorough analysis of the companies current process, Mobile Safety Solutions were contracted to deliver a bespoke, scalable, web-based solution that met the companies current requirements and allowed them to look at future needs at the same time.

Now, instead of isolated site-based processes, a modern SQL Server database supports the web-based deployment using principles of SaaS (Software-as-a-Service) — there is no requirement to install software locally. All teams across the globe can now utilise the systems facilities, and changes can be made centrally to deliver timely process or procedural changes to all sites instantly. Reports totalling hundreds of pages can be created and sent to print in a matter of seconds, and senior management can view the status of a project anywhere on demand.

The system is also capable of international localisation to meet the companies global requirements.

Phase 2 of the delivery will consist of extending the work process to the point of analysis, using our hand-held technologies to collect data at source on a PDA and deliver it over the air, allowing real-time data recording. Information will be available for report generation and analysis without the need to leave site, allowing for rapid and thorough control of risk and ensuring timely delivery of workpack details.