

CASE STUDY

PROJECT:

Site security, construction and pedestrian area segregation

SITE DETAILS:

Sizewell C Nuclear Power Station

PRODUCTS:

Oaklands RB22 Crash Tested Barrier System

Oaklands Barrier Systems

Hoarding & Panel Solutions

Accompanying Gate Options including BryFourGate



'Generating the Future' Delivering Britain's New Nuclear Infrastructure

The Challenge

Delivering next-generation energy infrastructure is as much about control and coordination as it is about engineering. The construction of Sizewell C brings together vast site footprints, strict regulatory requirements, and continuously shifting work environments. Within this context, maintaining clarity, safety, and efficient movement across the site becomes a daily operational priority.

Unlike static construction projects, Sizewell C involves layered activity happening in parallel; from groundwork and civil engineering to specialist installations. This creates a fluid environment where access routes, exclusion zones, and work boundaries must be adjusted frequently. Without clear physical demarcation, the risk of confusion, delays, or safety incidents increases significantly.

Another defining challenge is the level of control required on a nuclear project. Restricted areas must be secured with precision, while still allowing authorised personnel and equipment to move efficiently. At the same time, the site must remain navigable for a large workforce, many of whom are operating in high-risk zones alongside heavy machinery.

To support these demands, Oaklands Plastics has supplied a combination of its RB22 barrier system, Steel Accessories, BryFourGate access points, and Barrier Hoard solutions. Together, these products create a cohesive approach to site segregation, access management, and impact protection.


Sizewell C
The power of good for Britain

Applied on Site

The RB22 system forms the backbone of many temporary and semi-permanent layouts across the project. Its tested construction allows teams to reposition barriers quickly as work phases change, while still providing the durability needed for a high-intensity construction environment. This flexibility is particularly valuable where site configurations evolve on a near-daily basis.

To reinforce these installations, Steel Accessories are used to add strength and stability in areas exposed to higher levels of traffic or potential impact. This ensures that barriers remain firmly in place, even in zones where plant equipment and vehicle movement are constant.

Controlled entry is managed through the BryFourGate system, which introduces defined access points into otherwise restricted zones. By funnelling movement through specific gateways, site teams can better regulate who enters and exits key areas, supporting both safety compliance and operational discipline without slowing progress.

Barrier Hoard products provide a more solid form of separation where required. These are used to screen off sensitive works, create enclosed sections, or establish clear visual boundaries between different activities. In a complex environment like Sizewell C, this level of visibility helps reduce ambiguity and keeps workflows organised.

Across all systems, speed of deployment has been a consistent advantage. Installation requires minimal tools and training, enabling crews to respond quickly to layout changes without disrupting schedules. The ability to dismantle and reuse components elsewhere on site also adds to overall efficiency.

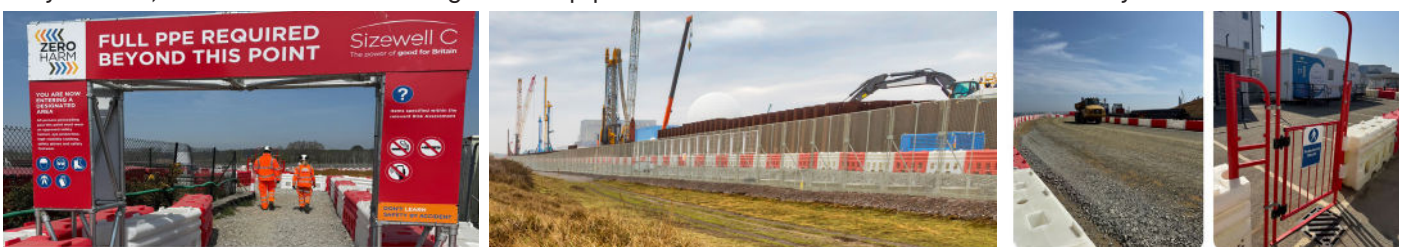
While performance on-site is critical, environmental responsibility is equally important. Sizewell C is designed to play a major role in reducing carbon emissions through low-carbon power generation, and its construction reflects a broader commitment to sustainable practices. Oaklands supports this approach through its manufacturing model. Its closed-loop processes ensure that excess material is reprocessed rather than discarded, helping to minimise environmental impact.

Product longevity further strengthens this contribution. By delivering barrier systems that withstand prolonged use and multiple redeployments, this reduces the need for replacement materials over time. This not only lowers waste but also supports more efficient resource use across the project lifecycle.

Outcome

The integration of Oaklands' RB22, Steel Accessories, BryFourGate, and Barrier Hoard systems at Sizewell C demonstrates how practical, adaptable infrastructure can underpin complex construction activity. By enabling clear zoning, controlled access, and resilient protection, these solutions help maintain order and safety across a fast-moving, high-stakes environment.

For projects operating at this level of scale and scrutiny, the ability to adapt quickly without compromising standards is essential. Oaklands Plastics' contribution highlights the value of barrier systems that are not only robust, but also flexible enough to keep pace with modern infrastructure delivery.



Case Studies – Disclaimer: The safe deployment of Oaklands products will depend on site-specific factors and relevant regulations. It is important to follow the guidance in the Technical Specification Data Sheets.