

Sellafield Product Residue Store (SPRS)

Client :
Sellafield Ltd

Main Contractor :
Carillion

Location :
Sellafield, Cumbria

Date :
2005 - 2007



SPRS is a heavily reinforced concrete nuclear storage facility forming part of the nuclear decommissioning strategy for Sellafield. BAM Nuttall constructed the civil works on behalf of Carillion.

The SPRS structure is approximately 90m long, 50m wide by 20m high, split internally into four defined areas each of which has various intermediate floor levels. The structure has a design life of 100 years which takes into consideration both potential seismic and terrorist events. The 23 month construction period involved:

- Fixing of 6500te of reinforcement
- Installation and torquing of 74,000 reinforcement couplers
- Erection and dismantling of 75,800m³ of access scaffolding
- Erection and dismantling of 36,000m² of formwork
- Erection and dismantling of 60,000m³ of falsework at an average height of 6m
- Placing of 24,000m³ of concrete
- Erection of 320te structural steelwork

Use of local labour

BAM Nuttall utilised local labour which improved both the financial economy and skill levels of the local communities. In the peak of production BAM Nuttall directly employed 170 operatives of various trades working on a day and night shift basis. A further 100 operatives were employed by BAM Nuttall sub-contractors.

Approximately 96% of the total workforce was recruited from within a 25 mile radius of the project. All operatives received extensive safety training from both internal and external sources. BAM Nuttall also invested in the formal training of 63 operatives who successfully gained a total of 82 NVQs.

Safety initiatives

BAM Nuttall met the client's expectations by forming a strong management team that disseminated their knowledge and experience down through to the operatives on site.

The workforce was integrated into the safety culture via a Safety Committee and Safety Circle which ensured that management of safety was a two way process.

The site team's commitment to safety was reinforced by a safety initiative scheme that rewarded local charities for every 28 day accident free period. The site team earned 23 prizes equating to total donations of £17,250.

A particularly unique safety initiative that BAM Nuttall instigated was the training of three tower crane rescue teams at an approved IRATA facility in Cumbria. This knowledge was shared and put into practice during joint exercises with the Sellafield Fire Service.

Presentation of a cheque from the safety initiative scheme to a local school

