User name: Proicere Ltd.
Project name: SPRS Retreatment (SRP) Sellafield
Location: Seascale, Cumbria, United Kingdom

Background:

- The Sellafield Retreatment Plant (SRP) is part of the United Kingdom's Nuclear Decommissioning Authority's (NDA) initiative to gradually transfer, repackage, and safely store 140 tons of separated plutonium for 100 years.
- The project played a vital role in safeguarding public health, protecting the environment, and advancing scientific knowledge.
- Proicere worked to optimize the project's management strategies.

Challenges:

- Project subject to complex regulatory requirements and stringent safety standards.
- Supply chain had to be re-established to provide items not manufactured for over a decade.
- Schedule pressures increased the need for precise project execution.

Solution:

- SYNCHRO was used for 4D planning and scheduling, empowering the team to digitally visualize, plan, and execute complex site works.
- Working in a connected digital platform, they established a digital twin to perform construction simulation.

Outcomes:

- An open digital twin platform helped infrastructure professionals collaborate and bring together construction data in a geospatial context and at scale to improve infrastructure delivery and performance across the lifecycle.
- Streamlined workflows enabled them to identify and mitigate over 160 potential risks.
- Saved GBP 73.2 million in costs, avoided over 500 days of rework, and reduced the environmental impact.

Quote: "SYNCHRO has become a key delivery tool for the SRP project, not only changing the way we functionally plan on the project, but also improving project integration and collaboration, and aiding the safe operation of the site. The construction plan is now more visible and accessible than ever, and this has only improved project and stakeholder communications." – *Daniel Ashton, Technical Director, Proicere.*

Image caption/courtesy 1: Proicere selected SYNCHRO for 4D construction planning and scheduling. *Image courtesy of Proicere.*

Image caption/courtesy 2: Using Bentley digital twin applications for management and visualization of the instrumentation data increased operational efficiencies by 40%. *Image courtesy of Proicere.*

Image caption/courtesy 3: By maximizing handprint and minimizing footprint, the project sets a benchmark for sustainable infrastructure development in the industry. *Image courtesy of Proicere.*

For more information, please contact Bentley PR at PR@news.bentley.com.

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