

Success in the Nuclear Industry

Requirements Meets Verification and Validation

SyntheSys is thrilled to have worked with a major organisation in the United Kingdom (UK) energy industry who are pioneers in the field of nuclear fuel reprocessing and nuclear decommissioning.

There are currently a series of major ongoing projects at the customer's site, that focus on the clean-up and storage of nuclear waste.

The first contract that SyntheSys has been involved with is called SEP (Silo Emptying Plant). The work involved getting the associated verification and validation plan requirements on track for the plant being developed.

SyntheSys has also completed a contract for another customer project called RAP (Replacement Analytical Project). The Analytical Services facility which analyses materials to reveal their radiological and other content, is being moved to another building at the site.

Here, SyntheSys' job entailed applying sound practice of requirements management to the project. The Project Functional Requirements document initially contained around 650 requirement statements. By taking a design agnostic approach, this set of requirements has been reduced to about 120 statements.

The SyntheSys Subject Matter Expert (SME), who has been involved in both projects, said: "The problem the customer faced was that the requirements were talking in solution terms. What SyntheSys has done now gives the project a much more concise expression of the problem to be solved, which in turn gives the project the freedom to determine the most appropriate solutions. This enables staff to come up with more cost-effective solutions than were previously conceived".

"As a result, the customer's vision is to employ SyntheSys to promote good requirements management practice across other major projects over various sites – of which there are more than a hundred".

About SyntheSys

SyntheSys provides defence systems, training, systems and software engineering and technical management services over a spectrum of different industry sectors. Along with distinct support and consultancy services, our innovative product range makes us first choice provider for both large and small organisations. Established in 1988, the company focus is on fusing technical expertise with intuitive software applications to solve common industry challenges.

