



ECS Engineering Services has supported a challenging chimney demolition project at Sellafield, by delivering a tank and pump skid that provides service water for dust suppression and equipment cleaning.

The demolition project at Sellafield is challenging because the chimney is contaminated with radioactivity. Consequently, the chimney is being dismantled section-by-section using a special scaffold. To help suppress dust from the cutting process and to clean equipment, service water needs to be pumped right up to the scaffold.

Tank & pump skid from ECS supports Sellafield demolition project

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A Tier 1 contractor for the project approached ECS Engineering Services, a leading electromechanical expert for the nuclear sector, to provide a complete tank and pump skid for the task. Dust suppression and equipment cleaning is all important when working on a contaminated site, as it minimises potential risks to personnel and the surrounding environment.

“We were approached by the contractor to deliver the tank and pump skid to Sellafield specifications,” says Steve Crapper, Precontracts Director at ECS. “Our Fit4Nuclear status, dedicated fabrications facility and electromechanical expertise mean we were well placed to deliver. We have provided fabrications for nuclear sites across the UK, including other high profile decommissioning projects.”

ECS was required to manufacture, assemble and test a skid frame with a tank, two delivery pumps, associated manifold pipework and valves. Fabrication of the frame was carried out in-house, after which it was coated in high-specification paint. ECS sourced the required insulated tank, booster pumps, valves, gaskets, supports and fixings. The pipe spools were produced from HDPE. Flanged fixings were installed to specification, with ECS subsequently connecting the pumps and various sensors electrically to a control panel.

Engineers at ECS carried out the full assembly of the tank and pump skid in-house. Rigorous mechanical and electrical testing was carried out with oversight from the Tier 1 customer. After completing the extensive assessments, the complete unit was delivered to site with all lifetime quality records (LTQRs), a manual and

full traceability documentation.

“With our focus on quality and rigorous testing, we could ensure that the tank and pump skid would perform as required when it was delivered to site,” Steve concludes.



Engineering Services ■■

Water Control ■■ Site Services ■■
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