

CASE STUDY

Lanarkshire

University
Hospital
Monklands

**BOILERHOUSE
REPLACEMENT
FUEL TANK**

CASE STUDY



University Hospital Monklands

ABOUT THE PROJECT

In February 2019, Merkland Tank began the 3-month long process of replacing three existing 50,000 litre oil tanks at University Hospital Monklands with a single, bespoke 56,000 litre steel bunded tank. The new oil tank would provide an essential back-up / dual feed for the hospital's boilers and small back-up generator.

Key drivers for the project were lifecycle replacement and reduction in capacity, however the new tank would also be easier to maintain, more resilient and more environmentally-friendly.

THE SOLUTION

The project saw Merkland Tank deliver a complete turnkey solution on behalf of NHS Lanarkshire's Principal Supply Chain Partner, GRAHAM Construction Limited. Merkland Tank designed the new totally enclosed steel bunded unit (in conjunction with HKA), emptied, cleaned and removed the existing three cylindrical steel tanks and then installed the new unit.

The new unit was designed and certified to OFS T200, complying with the Water Environment (Controlled Activities) Regulations 2011 (as amended) (CAR), the Control of Pollution (Oil Storage) (England) Regulations 2001 and to SEPA & EA Guidelines, generally to BS799-5:2010. It was also built with an intergrated fuel polishing unit to prevent fuel contamination within the tank.

CHALLENGES

The complex project required significant planning. To ensure an uninterrupted supply of back-up power to the hospital, only two of the tanks could be removed initially, before the new tank was installed and the third tank removed. Due to the size of the redundant tanks (each was 9ft in diameter by 30ft high), specialist lifting equipment was also required.

Merkland Tank managed all aspects of the project end-to-end to deliver a seamless solution for our client - on time and to budget.



Merkland Tank's extensive experience with fuel systems, coupled with their methodical and proactive approach, were instrumental to the success of this key NHS Lanarkshire project.

David Russell, Technical Director, HKA



Above: The new tank in position, and inset, the previous 3 tanks.

Below: The new tank during manufacture, and inset, the fuel polishing unit which will clean the fuel in the new tank at regular intervals to prevent system contamination.



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