



Contract Report



Customer:
Akzo Nobel

Location:
Slough, UK

Burner Model:
LCNO123

Fuels:
Natural Gas. #2 Oil

Fuel Savings:
31%

Akzo Nobel, a global paints and coatings manufacturer with operations in over 80 countries, were seeking sustainable methods of reducing their Slough production plant's annual emissions, as well as its fuel and running costs.

In the production plant, Akzo Nobel use a gas fired burner unit to heat a heating oil (Thermex) which is pumped through a heat exchanger transferring the heat to the resin. During the batch process, depending on the resin being produced, the batch temperature can be as high as 380°C.

Their existing burners and combustion system was a mechanical linkage based setup with inefficient burners that were costly to operate. Hence, they chose Limpsfield to replace these with a complete combustion package - two highly efficient LCNO123 burners firing Natural Gas and #2 Oil. These high performance burners came with custom-made Autoflame microprocessor burner controls, allowing the regulation of the amount of fuel and air passing through the burner to specific ratios using the Autoflame Micro Module control system. The burners and controls vastly increase the combustion efficiency, whilst at the same time reducing harmful emissions.

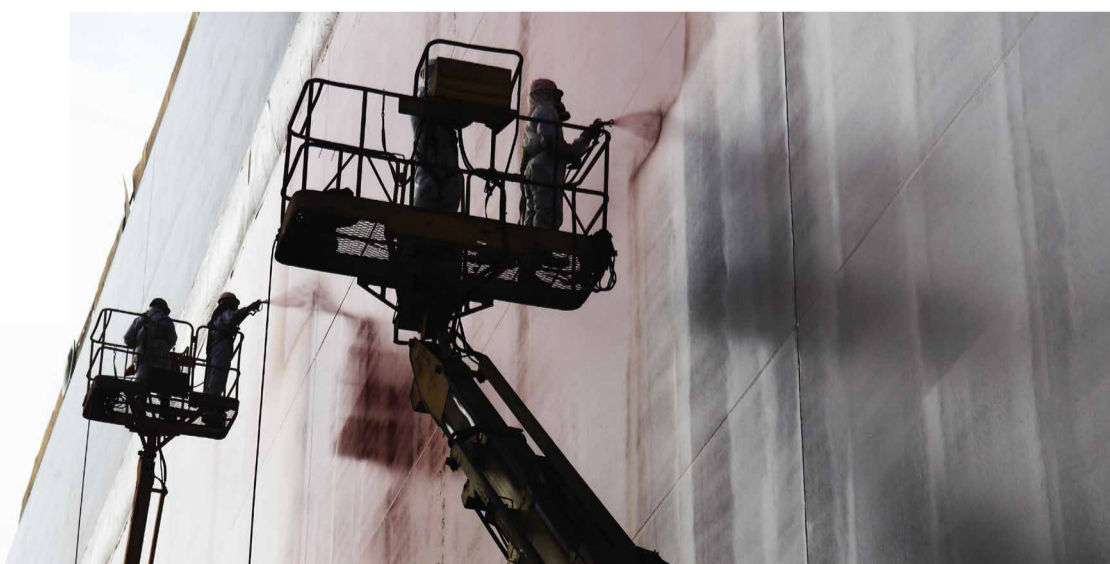
The project was predicted to achieve annual fuel savings of over 12%, as well as limiting the O2 to 3% throughout the firing range. As a result, significant reductions in emissions as well as fuel costs were evident with much lower maintenance downtimes.



Before: inefficient mechanical system



After: high-efficiency LCNO123



For more information on the Limpsfield burner range, please do not hesitate to contact us.



Website: www.limpsfield.co.uk
Tel: 00 44 (0)1959 576 633
Fax: 00 44 (0)1959 576 644

