



Client:



Location:

Humber Oil Refinery,
Immingham

Featured Product Range:



Dustex Dust
Control

Specialist Dust Control Solution Installed at a World Leading Oil Refinery

Project Overview

Phillips 66 has been operating as an energy manufacturing company in the UK for over 65 years. It's Humber Oil Refinery is located in Northern Lincolnshire, United Kingdom. The crude oil it processes is supplied primarily from the North Sea and includes light-, low- and medium-sulfur and acidic crude oils. Humber generates a large proportion of gasoline, diesel and aviation fuels.

Calderys is a global refractory leader that was tasked with working on a project at the Humber Oil Refinery.

Challenge

Calderys contacted the RVT Group because equipment utilised previously was not up to the task. According to the hierarchy of control, PPE should be the last line of defence, however, because extraction was not adequate, it had become the first line of defence. Calderys reached out to the RVT Group for a bespoke dust control solution, to better protect the health of their workers.

Refractory cement dust poses health risks to site workers

RVT Group provided an end to end service. We surveyed the requirements, designed a system, supplied and installed the solution, and revisited the site to commission the equipment

The dust capture hood was modified specifically for this project to ensure maximum dust control

The Wandafilta Pro Extraction Kit is unique, maintaining airflow over long duct runs

The filtration system used on this project has 3 stages of filter including HEPA, removing 99.9% of air pollutants



The 3C's® is a proven methodology, devised by the RVT Group, to ensure effective control of dust on site

Solution

The RVT Group recommended using a Dustex Wandafilta Pro extraction and filtration kit. The fan and filter system was located outside the temporary mixing enclosure with flexible ducting leading to a hood supported on the rear of the mixer. The hood was specifically modified for this project, to increase the capture efficiency by enclosing the loading hopper. Filtration to HEPA standards prevented any dust exposure to those working outside of the enclosure.



Airflow measurements were taken to determine the effectiveness of the capture distance of the hood. Visual checks of dust movement were also verified.



DUSTEX® Wandafilta Pro
Dust Extraction and
Filtration Kit

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Testimonial

- “ RVT has been great working and supporting us on Phillips 66 with regards dust control. Really responsive ect. I would recommend working with them. Having spent a great deal of time looking for a company that could provide the required levels of dust extraction to reduce the airborne silica and nuisance dust that we generate on a daily basis, I was very pleased with the results generated by the ventilation products RVT offer. The machines you have supplied offer a visible reduction in the dust generated. - **Project Engineer, CALDERYS** ”
- “ RVT has been very knowledgeable and offered great guidance advice and proposed solutions in helping us achieve our occupational health compliance requirements. - **Safety Installation Officer, CALDERYS** ”