

Demolition of INEOS Grangemouth – Plots 1 & 2

Client: INEOS Chemicals Grangemouth Limited
Value: £3m
Duration: 12 Months

The INEOS Refinery is a tier 1 COMAH site situated in Grangemouth and represents INEOS' largest manufacturing site by volume of products. It is home to Scotland's only crude oil refinery and produces the bulk of fuels used in Scotland.

Brown and Mason were commissioned to demolish the Innovene 2 plant in the latter part of 2015. These works were identified at Plot 1. During 2016, Brown and Mason were further commissioned to demolish Machine 5 and this was identified as Plot 2. The Innovene 2 plant covered approx. 58,000m², was surrounded by live facilities, namely the CHP plant to north as well the main INEOS Refinery site. As well as a number of live underground services including: HV electricity, fire and towns water mains and surface water systems, which required protection throughout the project, there were also storage silos to the south together with the Innovene 4 Plant facility. The site was bounded on the west by a number of industrial businesses, not associated with the INEOS site and further beyond this were a number of residential properties. Hazardous materials removed from the site included asbestos containing materials, residues of hazardous liquids & gases.

Brown and Mason's wide experience of work in or adjacent to live facilities was utilised to the full on this project. In the planning stage it was noted that, due to a combination of the age of buildings / structures and historical changes of ownership there were limited structural and equipment drawings available, therefore our in-house structural engineering team was utilised to survey the structures in the CDM area, as well as some of those on the perimeter.

During the works, we had to ensure the protection of three live substations which fed the live operational facilities.

A safe system of work was implemented (draining, venting and purging) as well as controlling all works with a comprehensive permit to work system and method statements and risk assessments.

Our traffic management system had to allow for our client's requirement for unrestricted access 24/7 to live areas or emergency situations in and around our CDM demolition area.

We are the only demolition contractor in the UK who processes the ferrous material on site, to scrap furnace sizes, and then load onto our own fleet of HGV transport for delivery into the scrap merchant (furnace ready).

Volume of Waste: 16,504te of materials removed;
Project Recycling Rate: 97.75%
Manhours: 68,356

