

## **Municipal Waste Incinerator Upgrading Programme Sheffield City Council**

In 1997, Sheffield City Council appointed contractors to modify their municipal waste incinerator to bring it into line with changing legislation. Following the modifications, the council was not satisfied with the performance of the plant in several key areas, particularly throughput, reliability and flue gas emissions.

Following protracted negotiations between the council and contractor, Entec was retained by both parties to provide an appraisal of the plant. In essence, Entec assessed the fundamental question of whether the plant and its modifications could have a reasonable expectation of meeting the council's requirements. Entec also highlighted key areas where performance could be adversely affected.

As a result of Entec's review the council was able to enter into an agreement with the main contractor to close-out the contract upon completion of a programme of work addressing the key issues identified. This agreement allowed the council to take-over the incinerator with improved performance and also to draw a line under its potential contractual liabilities.

The works themselves were mainly targeted at improving the solids handling performance and overall reliability / availability of the plant. Entec was retained by the council to provide 'Engineer to Contract' services – a role that required Entec to act as reviewer of designs and schemes of work and to act as a link between the site operators and the main contractor.

Entec's reviews of designs concentrated on workability and on minimising possible interruptions to incinerator operations.

Entec also provided a site engineer during the key phases of the work and ensured that the site work caused a minimal disruption to ongoing site operations – in total, incineration operations were interrupted for less than three weeks.

As a result of the upgrading works the throughput performance of the incinerator was increased by more than 25%.



*Providing an independent appraisal of  
performance in response to client' concerns*

