

Energy from Waste Facility Development **SITA Cleveland Waste Management**

SITA Cleveland Waste Management own and operate an energy from waste plant at Billingham on Teesside. The existing plant operates with two combustion streams and generates electricity for external sale and on-site use, recycles bottom ash to the aggregates market and recycles recovered metals. The plant was originally designed with a capacity that matched that required to service a waste management contract with the former Cleveland County Council. It has been identified that there is now a requirement for additional capacity at the plant. SITA Cleveland Waste Management commissioned Entec to assist in the development of a third incineration line at the plant.

The specialist services that Entec have provided have been in relation to a preliminary technology evaluation, environmental impact assessment and drafting of PPC authorisation documentation.

Preliminary Technology Evaluation

Entec assisted the client project manager with the analysis of contractor technology proposals received from four technology suppliers offering turnkey solutions. The analysis included the identification of uncertainties within the technology offered and the development of a list of points requiring clarification. Particular attention was paid to the guarantees that were being offered with respect to plant availability and the ability of the technology to meet the more stringent emissions limits set out within the EC Waste Incineration Directive (2000/76/EC).

*Advisory services
for an expansion
of facilities*

Environmental Impact Assessment

As part of the planning application submission, supporting documentation for the proposed third line required an environmental impact assessment and environmental statement. Entec's environmental appraisal team including in house specialists in air quality, noise and visual impact assessment developed the documentation for submission to the planning authorities. Approval for the development has been granted.

PPC

The municipal energy from waste plant at Billingham on Teesside, is currently regulated under IPC. With the addition of a new furnace and boiler stream there was a need to modify the authorisation permit issued by the Environment Agency. In the intervening period between the

authorisation of the original plant and the submission of proposals for further development the authorisation regime for the plant has been modified to that required under PPC.

Entec worked with SITA Cleveland Waste Management to determine the regulatory boundaries for this new installation, which was found to require a PPC application for both the new and current lines, and all associated activities. Entec has managed and written the full technical report to support the application, working closely with the operator and the design contractor. This is due for submission to the Environment Agency in the latter half of 2002 and if determined would enable the new stream to be operational in late 2004.

