

Flue Gas Desulphurisation at Eggborough Power Station Kvaerner



Reducing environmental emissions in North Yorkshire

Entec was commissioned by Kvaerner (who are acting as owner's engineer to British Energy) to undertake two major items of work in relation to the plan to install flue gas desulphurisation at British Energy's Eggborough power station. These were a BATNEEC/BPEO assessment to identify the most appropriate means of reducing emissions from the power station, in line with its integrated pollution control (IPC) authorisation requirements; and secondly, as the extension to the power station requires consent from the Department of Trade and Industry under the Electricity Act, to prepare an environmental impact assessment of the chosen option to accompany the Section 36 application.

British Energy purchased Eggborough in early 2000 in order to increase its generating flexibility which consisted of a 10 gigawatt (10GW) nuclear base load. Coal fired generation, as at Eggborough, emits large quantities of sulphur dioxide and this is the key pollutant requiring abatement. The BATNEEC/BPEO review identified wet limestone flue gas desulphurisation (FGD) as the appropriate technology and the EIA was carried out on that basis.

The EIA involved a detailed scoping exercise in consultation with the county and district authorities. This identified that the full range of environmental issues required consideration in the EIA,

although not all at the same level of detail. A comprehensive environmental statement was prepared which covered sourcing of the limestone raw material and removal of the waste product (gypsum), traffic and transportation, air quality, noise, water quality, ecology, landscape and visual impacts, contamination, health and safety and cultural heritage.

The application has been submitted to the DTI and Section 36 consent has been awarded.

