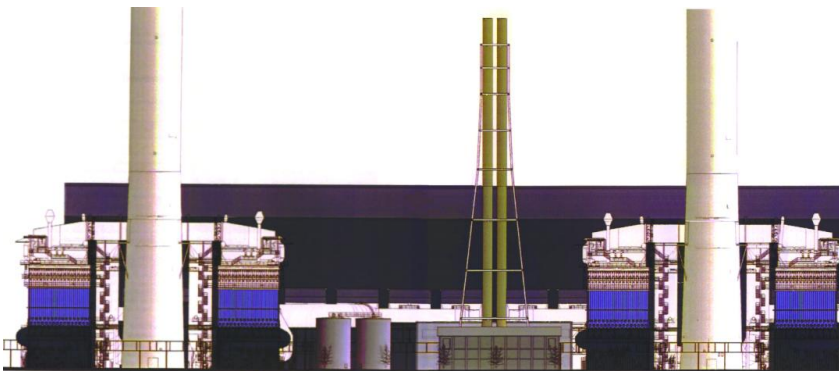

West Burton Power Station – FGD Retrofit



West Burton Power station is a Coal fired generating plant owned and operated by TXU Europe Power with a generating capacity of 2,000 MW (4 x 500 MW units). In order to meet new flue gas emission requirements imposed by the Environment Agency, TXU entered into a turn key contract with a joint venue of FLS Miljo and Mitsubishi Heavy Industries (MHI/FLS) to retrofit a Flue Gas Desulphurisation (FGD) plant (contract value greater than £100M, completed 2004).

Melia Smith & Jones Ltd were appointed by STEAG encotec who had been commissioned by TXU Europe Power to act as the Owner's Engineer. Melia Smith & Jones Ltd provided Civil Engineering expertise on site working directly with TXU, providing advice about the civil engineering and project management of the construction activities. The appointment also involved liaison with the MHI/FLS site management team, monitoring and recording progress and ensuring that approved construction drawings were adhered to on site in respect of all civil and structural engineering work.



The FGD process is a limestone/gypsum type, using crushed limestone as its basic reagent feedstock and producing wallboard grade gypsum by-product. The enabling work required demolition and relocation of several existing buildings and services. The new construction consisted of two new chimneys, four absorber tanks with associated plant and flue ducting, limestone/gypsum unloading and loading (rail/road) facility, limestone and gypsum storage buildings, limestone grinding plant, waste water treatment building and other ancillary buildings, conveyors, pipe bridges and trenches.

Completion of the first chimney concrete windshield took only 8 weeks using slipforming construction. [Height 200m, diameter 15.5m (above 60m level), 270mm thick walls.]

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