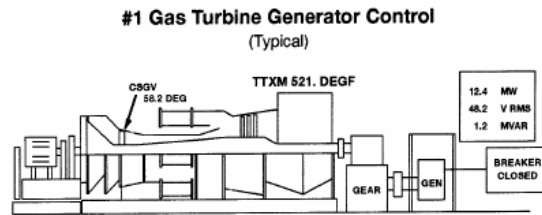




PROJECT SUMMARY

IPPC Application, Combined Cycle Gas Turbine CHP Plant, Derby.



KEY PROJECT ELEMENTS

- **GAP ANALYSIS**
- **PROCESS DESCRIPTIONS**
- **BAT ASSESSMENT & JUSTIFICATION**
- **WASTE MINIMISATION AUDIT**
- **NOISE SURVEY**
- **APPLICATION SITE REPORT**
- **IMPACT ASSESSMENT**
- **INSTALLATION ISSUES**
- **SUBMISSION OF ELECTRONIC IPPC APPLICATION**
- **REGULATOR LIAISON**

Under the Pollution Prevention and Control regime (PPC), the operator was required to submit an application for an operating permit within the Energy Activities sector. The 214MW Combined Cycle Gas Turbine Combined Heat and Power Plant provides steam to the adjacent chemical manufacturing works. The local Environment Agency PIR officer determined that the power plant as a 'directly associated activity' that required an application in conjunction with the chemical works. The project included:

- A gap analysis against the requirements of the PPC regime;
- Review of Best Available Techniques (BAT) within the draft sector guidance and European BAT reference documentation;
- Definition and agreement of the installation footprint and interaction with the chemical works;
- Creation of process flow diagrams and descriptions of the main plant and associated activities;
- Completion of an Application Site Report, including Tables D1 and D2, using existing site data, site reconnaissance and other information.
- Site maps and plans including all emission points and sensitive receptors;
- Auditing of waste minimisation, management and control;
- Noise survey and report;
- Conducting a gap analysis against the requirements of ISO14001: 2004 for addressing operator performance;
- Compilation of raw materials inventory, water and energy usage;
- Emissions inventory and benchmarking;
- H1 impact assessment study and detailed dispersion modelling of atmospheric emissions;
- Control and management of installation-wide issues;
- Preparation and submission of the electronic IPPC application; and
- Support and liaison with regulators and other interested parties