



UK Energy Distribution Organisation

Design and Build of High Performance Compressor Buildings

Cullum Detuners Ltd were contracted by AMEC Engineering to Design and construct 4 high performance compressor buildings for 2 x 15MW and 2 x 30MW Nuovo Pignone compressor units. The specification called for a high acoustic performance from the buildings of 35 dB(A) SPL at 200 metres with the units running at full power.

The acoustic requirement meant that Cullum had to devise a new method of insulation rather than traditional panels and our designers worked closely with the site staff to develop a solution. The project was completely Project Managed by Cullum to schedule deliveries onto site in order to achieve the required delivery programme.

Cullum's electrical and mechanical installation teams worked closely with the site engineering to produce an on time and in budget solution.

In brief the Cullum scope included:

- **4 High Performance Compressor Buildings**
- **Filter House**
- **Intake and Exhaust Silencing and Ductwork**
- **Complete Ventilation System**
- **Close Coupled Acoustic Enclosure**
- **Anti-Icing System**
- **Mechanical Handling Systems and Pipework**
- **Mechanical Installation**
- **Electrical Installation**
- **Installation of Turbine Compressors and Coolers**
- **Mechanical Handling Systems and Pipework**
- **Mechanical and Electrical Installation including Turbine Compressor and Coolers**