



## Trent Power Generation Units for Braintree

### Land Based 50MW Power Generation

Cullum Detuners Limited won a contract from Rolls-Royce Energy Systems Inc. (RRESI) to provide two sets of acoustic equipment for power generation sets driven by Trent 60 WLE gas turbines for Braintree Electric Light Department (BELD) in Braintree, Massachusetts.

Cullum provided a standardised design for the Gas Turbine enclosure and ventilation system. In addition, Cullum provided a project-specific design of generator enclosure complete with ventilation system and filtration. The equipment was built by sub-contract fabricators in North America with Cullum providing experienced support and supervision. The GT enclosure was delivered to RRESI's facility at Mount Vernon, Ohio and the balance of equipment was delivered to site in Massachusetts.

Cullum have provided technical support and acoustic guidance throughout the installation and commissioning process.

The Cullum scope included:

- **Gas Turbine Acoustic Enclosure**
- **Enclosure Ventilation System Fitted with 3 x 50% Fan Units**
- **Combustion Intake Silencer and Ductwork**
- **Compressor Bleed Ventilation System**
- **Support Steelwork Structure**
- **Access Ladders and Platforms**
- **Generator Acoustic Enclosure**
- **Generator Direct Air Cooling Ventilation System and Filter**