



Key Benefits

- Automatic control sequences
- Central storage of all schedules, test data etc.
- Automatic control of smoke meters and emissions carts
- Continual monitoring for alarm conditions
- Transient data capture modes
- Batching of schedules for increased unmanned running

Eye to the future | Window on the world

Summary

Each computer system was designed to run a diesel engine in a development test cell according to a user defined schedule. Automatic control of the throttle actuator and dynamometer, in a variety of modes, were used to achieve the required engine conditions. Central servers were employed to provide storage of all test schedules, test log data etc. and also to act as an arbitrator when access to one of the Emissions Carts was required by a test cell.

Auxiliary parameters such as intake manifold temperature were also controlled through communications with a series of Omega controllers. A variety of smoke meters and fuel measurement devices were also controlled and synchronised with the test sequences.

Safety monitoring for alarm conditions was continually undertaken and in the event of a failure, controlled and emergency shutdown routines are employed to safely stop the engine. Following such an incident, crash or shutdown logs are made available for the last 2 minutes of running so that an engineer may determine the exact nature of the failure.

Equipment Used

- 12 x Motorola based machines
- 50 x Omega CN76000 Controllers (Existing Equipment)
- 2 x Horiba MEXA 9000 Emissions Carts (Existing Equipment)
- Plug in cards included
 - 20 x BVME250 16 Ch A/I
 - 20 x VADI-3 16 Ch T/C A/I
 - 10 x PBDAC3 4 Ch A/O
 - 10 x PBDIN3 16 Ch D/I
 - 20 x PBREL 8 Ch D/O



If you would like to find out more about this application, please contact the sales office who will put you in touch with the original Systems Integrator.