



AVR / Excitation Control Systems

Maintenance and Modernisation

Quartzelec, one of the largest independent electrical engineering service providers in the UK and a globally recognised expert in rotating electrical machines, delivers support solutions for a broad range of UK and worldwide customers.

In addition to supporting rotating plant, Quartzelec also provides service and support for the associated excitation control, protection and synchronising equipment.

It is essential to ensure that the operation of the rotating plant is not put at risk by potential failure of obsolete control equipment. As technology continues to advance it becomes critical to ensure that vital control systems can be supported, serviced, spares sourced and an upgrade path identified.

Quartzelec is ideally placed to assist and offer guidance to clients, provide service and support, manage any obsolescence issues and identify the most suitable upgrade path, with a heritage that stretches over 100 years and includes some of the most respected names in electrical engineering; GEC, Alstom, AEI, BTH, English Electric and many other major manufacturers

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As an independent company, Quartzelec has wide experience of control equipment from various manufacturers and is able to provide solutions in a wide range of designs to suit individual applications with minimum downtime, scheduled around planned maintenance outages.

- Kit of parts, installed and commissioned at site within existing enclosure(s)
- Back-plate mounted equipment, pre-configured and tested before arrival at site, for mounting within existing enclosure(s)
- New cubicle with optional synchronising and generator/motor protection

Any excitation system proposed would incorporate modern 'commercial-off-the-shelf' (COTS) equipment, combined with Quartzelec's engineering and site support expertise to generate a product, tailor-made to customer's requirements.

The modern solution is offered with many benefits:

- Compact design
- Ability to communicate with a wide variety of customer control systems
- Commissioning and maintenance software
- Data logging facility
- Suitable for single channel and dual channel redundant applications
- Certification
- Adaptable to any system – shunt, auxiliary winding, permanent magnet or DC fed
- Comprehensive installation and commissioning services
- Options for Synchronising and Protection equipment
- Optional custom programmed HMI



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