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TCL New Products

November 2012



Generator Control System - Using microprocessor based control equipment the TCL design team have developed a stand-alone system capable of providing the following functions: -

- Automatic voltage regulation up to an excitation current of 30A
- Generator automatic synchronisation, with phase shift algorithms
- Generator protection functions

The new system provides a cost effective solution to generator control including monitoring and diagnostics.

Please contact sales@tcluk.net for more information or a quote.

Avon Soft Start - TCL are pleased to announce the development of a new SMARTStart system for gas turbine DC starter motors. TCL have designed this product to address the issue of aging starter systems which rely on electro-mechanical timers and DC contactors. These electrical devices have become unreliable and spare parts are increasingly difficult to source. The TCL SMARTStart system uses solid state components to control the current through the starter to provide a more progressive increase in current (soft start). This greatly reduces the stresses on the starter motor, increasing life and reliability. The system provides a reliable solution to starter motor control with sequencing control and diagnostics. Please contact sales@tcluk.net for more information or a quote.

[click here to see the TCL product pages>>](#)

New Appointments

November 2012



TCL are happy to announce the appointment of a new Customer Support Manager: -

Phil Truscott- This role is key to the day to day functioning of the Customer Support department, encompassing site services, customer training, spares and repairs. Phil will bring his considerable experience of gas turbine commissioning and field service to the role.

Phil will be contacting existing customers in the near future to introduce himself and to highlight some of the new services that TCL can offer.

Contact details: - phil@tcluk.net

[click here to see full details of TCL site services >>](#)

TCL Projects

New Projects

November 2012



TCL are pleased to announce the award of the following contracts during the last quarter of 2012: -

AES Kilroot Power Station – Control systems upgrade of a two twin Avon generator sets rated at 29MW, to replace the aging governor and sequencer equipment and provide a new operator interface at both the local and central control room.

Jersey Electric plc – Complete new control systems for two Sulzer diesels each rated at 12MW, The new system comprised of six panels for each engine and includes AVR, governor and sequence control. Allen Bradley ControlLogix5000 PLC's are used for control with local PanelView HMI's for operator control. In the main control room a dual screen SCADA system has been installed for units 1 and 2 with the capability to be upgraded to include engines 3 and 4 at a later date.

MODA King Fahad Hospital – Control system and liquid fuel upgrade for three Rolls Royce Olympus based gas turbine generators. Allen Bradley PLC based controllers will be installed in the local control panels to replace analogue electronic controllers and electro-mechanical relays.

The fuel system will be modified to fit the TCL Posiflow ® system, which utilises a variable speed electric motor driving a fixed displacement HP fuel pump

Completed Projects

November 2012

During the past few months a number of control system upgrades have been installed and handed over to the customer. These have



included: -

Perenco Lemman 27A AX Station - On the latest upgrade of the AX Station TCL have upgraded the existing station control panel (SCP). The hardware supplied was Allen Bradley ControlLogix5000 which was programmed to perform the following functions: -

- Cooler and fans control
- Import valve monitoring
- Station and ESD monitoring
- Alarm and trip monitoring

TCL have also upgraded the existing HMI mimics with additional screens to facilitate the AX station functions and monitoring.

Perenco Inde 23A - The scope of this project was to replace the existing gas turbine control and fuel system equipment fitted to the TA1750 Generators with a new Allen Bradley ControlLogix5000 PLC's system to provide Sequence Control, Governing and Protection functions

The following was provided: -

- Local control panel
- Fuel valve skid
- Vibration system
- Field transmitters
- AVR, with manual and auto synchroniser

TCL also provided a touch screen PanelView based HMI for control and monitoring.

[click here to see details of previous TCL projects>>](#)

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