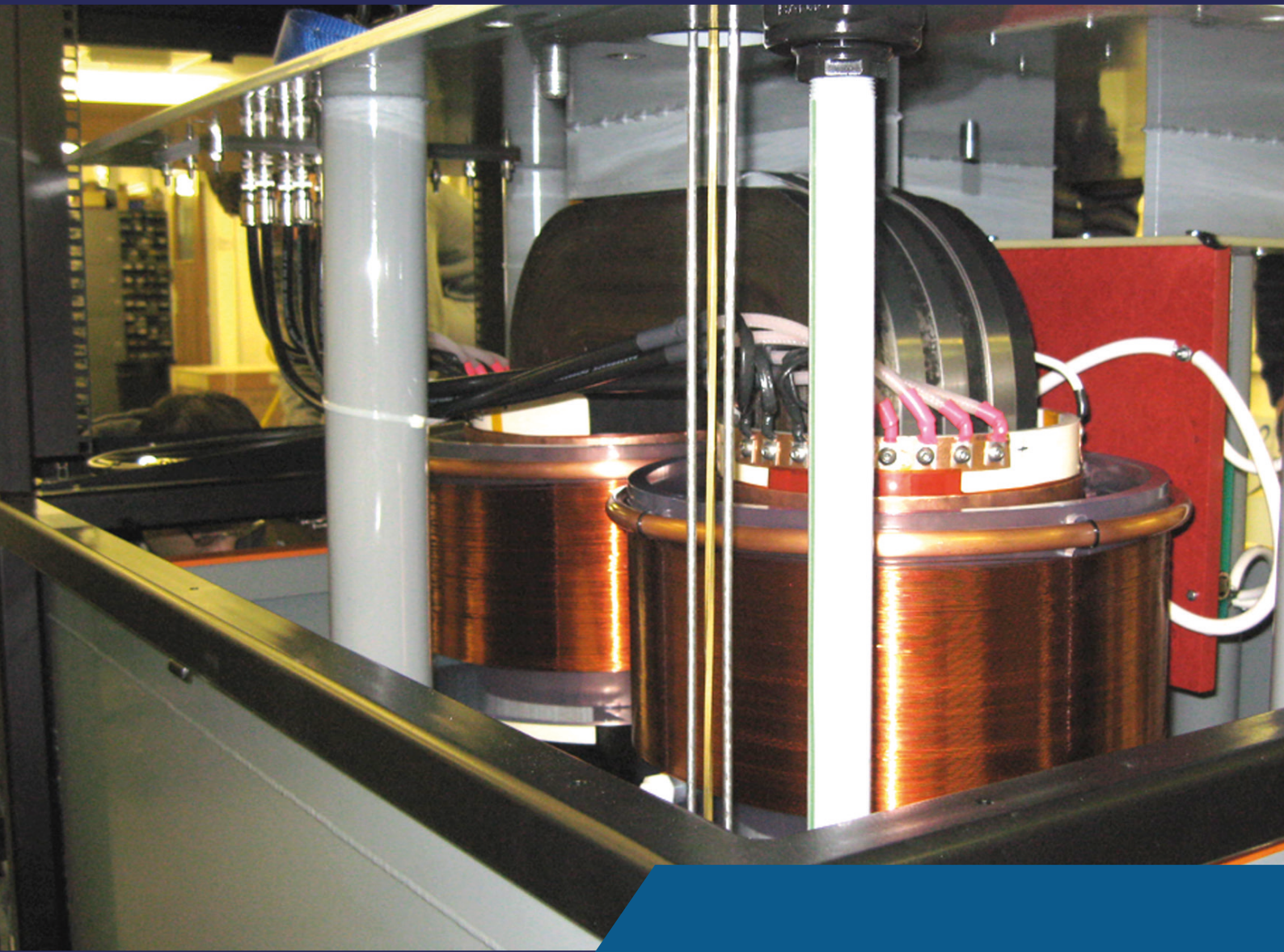




High Voltage Pulse Systems



In-House Design

Manufacture

Installation

Calibration

Service

ESC have worked with a number of customers since 1995 to develop a variety of high voltage systems. We have a dedicated in-house team for software and design requirements as well as working with a number of partner companies with specialist knowledge.

www.equipment-support.com

High Voltage Pulse Systems

Complete Design

We can take a customer's basic requirements and design and deliver complete systems. Hardware, software, drawing packs, training and certification.

Improving Safety

Our team can work with existing systems to improve safety requirements and bring them up to current local and national safety standards.

Maintenance & Calibration

We have also worked on a number of systems to help both maintain and calibrate them as well as improve their serviceability.

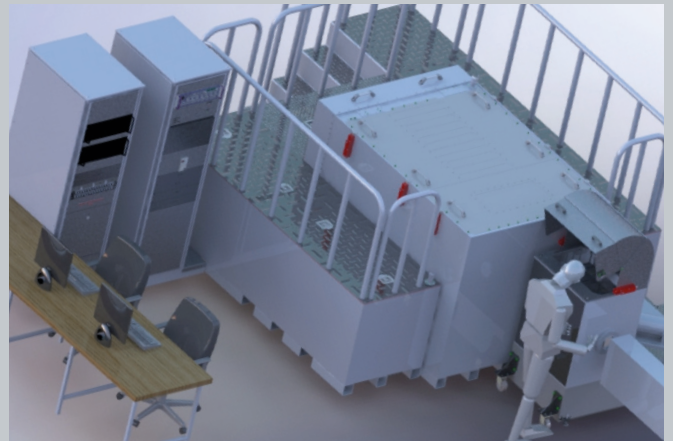


This large inductive reactor test system had to produce a programmable pulse of up to 50KV with a pulse rate of up to 250Hz. This system had to run continuously for many weeks.

A complete system using a Thyatron was designed, built and installed.

This was a system that required a variable amplitude pulse of 10-250KV up to 5A variable from 3 to 15uS and a rise and fall time of less than 1uS to 100KV and less than 2uS to 250KV with an additional pulse floating on the 250KV of up to 150A with an independent start and duration time from 3 to 15uS.

This was achieved with a bespoke designed stack pulse generator, involving a series of 99 independent 3KV PFNs serially stacked and all fired via IGBT devices through fibreoptic control.



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