



P & I Design Ltd

Process Instrumentation Consultancy & Design

Project Case Study Data Centre



This case study outlines a typical solution provided by P&I Design Ltd for PLC control of critical site power supply systems for internet data centres, telecommunication nodes and similar installations.

A typical installation may comprise multiple 11kV/400V transformers supplying LV switchboards with generator support.

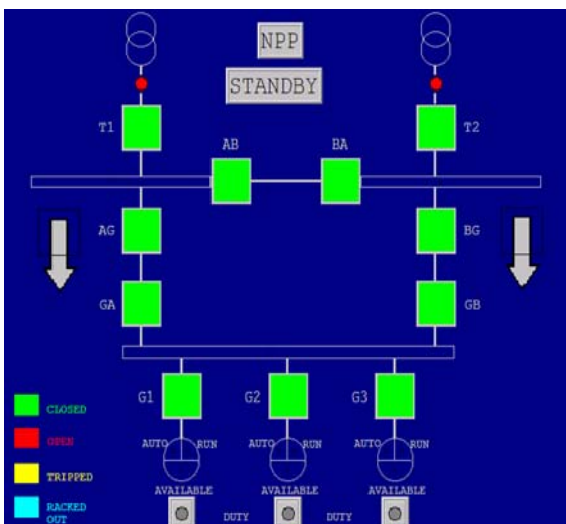
P&I Design Ltd has extensive experience over more than a decade of providing automated solutions to a variety of telecommunication, internet service providers and financial institutions throughout the UK, Ireland and Europe.

Services provided include

- Conceptual design working with clients consultant
- Detailed design of control system functionality, including functional specification, testing procedures and all other supporting documentation
- Delivery of fully factory tested PLC / SCADA control system including control panels
- Integration with third party control systems e.g. Building Management Systems on a variety of industry standard protocols
- To provide remote access for diagnostics and on-line support.

Typical Functional Requirements

- Switching sequence automation of all LV breakers
- Automated control of standby generator power plants
- Load shedding and peak lopping
- Soft transfers including G59 protection
- Automated load bank testing



Typical SCADA graphic

P & I Design can provide 24 hours per day 7 days a week technical assistance and support. Most problems can be resolved without a visit to site, as the engineer can interrogate the system remotely.

PROCESS
INSTRUMENTATION
CONSULTANCY &
DESIGN

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