

# SYSTEM INTEGRATION

## Control Panel Retrofit Upgrade



### PROBLEM

Our client had a number of ageing firewater pump control panels (in excess of 40 years old) which were no longer supported by the OEM. These systems were experiencing severe reliability issues; contributing to lost production on a number of their assets.



The system used a non-standard operating voltage, and other vendors would only quote for a complete system replacement, including all field instrumentation and hardware. The client felt this option would take too long, cost too much and introduce too much risk.

### OBJECTIVE

To provide a pragmatic solution with a quick turnaround time – interfacing with existing field equipment and maintaining the same fit, form and function of the original control system, but using modern, reliable and supportable components.

### SOLUTION

An initial basic survey of the existing packages was performed by Metron. At the same time, we were also able to provide some initial short-term onshore and offshore support to improve their current reliability. This included on-site fault finding & repairs, sourcing of obsolete critical spares and providing re-engineered replacements of the most unreliable components as a temporary stopgap.

After agreeing a detailed statement of requirements with our client and their core staff; we completed all the design and drawings in-house, ready for manufacture. Fabrication, programming, and onshore testing was then completed by our engineers at our Aberdeenshire facility. A purpose-built test-system was additionally constructed to facilitate comprehensive testing prior to release.

After a successful witness FAT with our client, we mobilised offshore to execute installation and commissioning the panels. This was completed whilst maintaining minimum availability of the client's fire water pumps.

### BENEFITS

- 1 Replace obsolete parts whilst maintaining operations
- 2 Increase overall reliability
- 3 Reduce downtime and the risk of production losses