

Furmanite

On-site valve repair specialists



600 valves overhauled in nuclear contract

Overhaul of some 600 valves for British Nuclear Group Reactor Sites has been undertaken with zero re-work requirements and meeting stringent procedural demands at Wylfa nuclear power station by Furmanite.

The work involved disassembling, lapping, inspecting and reassembling the gate, globe, check and safety relief valves in the station's reactor area, turbine hall, gas circulators and boilers during the scheduled outage.

The vast majority of the work was undertaken on-site and most of the valves (around 500) were lapped in-situ, representing considerable cost savings by avoiding the need to remove all valves to the workshop. Some 92 critical path valves that were taken to Furmanite's Warrington workshop were tested, witnessed by Royal Sun Alliance and approved, following overhaul, on Furmanite's test rig.

Commenting on the work undertaken, Wylfa outage manager Andrew Taylor said: "We needed a step-change from the way valve contractors had worked in previous years. In response to our requirements they changed their structure to a more project-based delivery which gave us the quality and cost benefit we needed, and all safely achieved within the time constraints of our 2005 overhaul."

Furmanite was able to produce a significant budgeted cost saving (over £100,000) through improved project management and processes for maximum efficiency, by building on opportunities identified with the client as a result of previous projects.



Reduce costs and increase efficiency with Furmanite's on-site valve care programme

Replacing valves is expensive, which is why it is important to entrust your valve refurbishment programme to a company with comprehensive facilities, expertise and a proven track record in engineering services. Furmanite specialises in on-site valve repair services and can offer a total valve care package to maintain operating efficiency and certification.

Here's what you can expect:

- Onshore and offshore valve overhaul and repair service
- Specialist refurbishment programme for
 - Safety valves and relief valves
 - Control valves
 - Conventional mechanical valves
 - Oxygen duty valves
- Strict compliance with ISO 9001 procedures
- Highly qualified, experienced technicians
- Fully equipped mobile workshop for on-site applications and offshore
- Patented Trevitest system for in-situ valve testing
- Procurement of valves/valve spares, if required
- Machining and welding facilities
- Approved UK service centres for Durco and BTG valves
- Alliance with Spirax-Sarco

- Customer Valve Repair Appreciation Courses
- Full collection and delivery service, including tagging on-site and re-installation



FURMANITE™

MAXIMISING ASSET UPTIME

Full valve service for FPSO



A full recertification service on all safety and relief valves has brought significant savings for PGS Production on the Banff FPSO.

The valve 'healthcare package', provided by Furmanite, avoids the usual drawn out and complex process of valve recertification for the operator.

Furmanite QA engineer, Tony McIlroy explains: "We built records of the valves, their descriptions, locations and functions, and certification details, and can now undertake and keep records of any repairs, enabling efficient project management. We are even able to predict requirements and life spans."

Certification and valve test requirements were assessed and from this data a full schedule of testing and repairs was established.

Furmanite has had to work within very tight time periods throughout, and be flexible due to the manning constraints onboard FPSOs.

PGS Production maintenance super-intendent, Steinar Haugen, comments: "Furmanite was called in on the basis of reputation and has certainly lived up to it. In the light of recent changes within our company, the thorough documentation provided has proven invaluable."



Delivering the service to you

The standard on-site workshop overhaul includes:

- Visual inspection and identification
- Pre-test for safety and relief valves
- Stripdown and cleaning of all components
- Shotblast of external surfaces
- Nominal lapping of seats and discs
- Assembly, testing and calibration to valve specification; sealing and tagging
- Final inspection, painting and protection of flanges
- Issuing test certificates



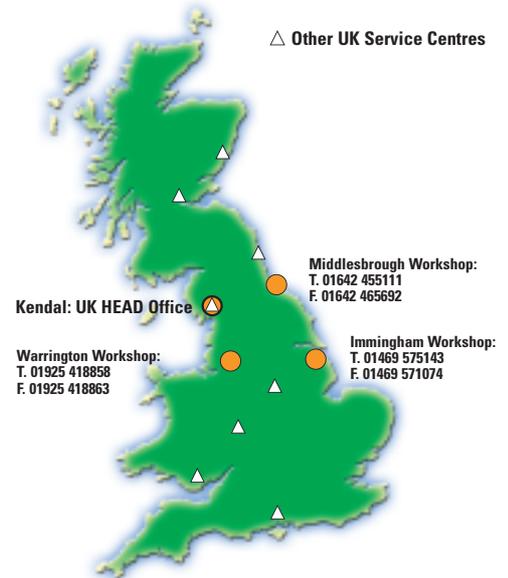
On-site workshop test facilities

Nationwide support for industry

With three strategically-based service centres throughout the UK, equipped with the latest instrumentation and refurbishment equipment, plus qualified engineers, an efficient and reliable service can be guaranteed 24 hours a day, 365 days a year.



Control valve under test



- Ball Valves
- Butterfly Valves
- Check Valves
- Control Valves
- Diaphragm Valves
- Durco Plug Valves
- Fire Hydrant Valves
- Float Valves
- Globe Valves
- Knife Valves
- Hunt and Mitten Stop Valves
- Hydraulic Valves
- Neles Valves
- Non-Return Valves
- Pacific Valves
- Parallel-Slide Valves
- Penstock Valves
- Plug Valves
- Pressure Gauges
- Pressure Reducing Valves
- Pressure Vacuum Valves
- Relief Valves
- Safety Valves
- Screw-Down Non-return Valves
- Spectacle/ Goggle Valves
- Vacuum Valves
- Water Gauges and Indicators
- Wedge Gate Valves
- Whessoe Valves

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