



Valve services for nuclear power stations

Established in 1981, Industrial Valve Services (IVS) is one of the UK's leading valve maintenance and overhaul companies.

Our specialists offer a wide range of services to ensure that the valves used in nuclear power stations operate safely and reliably.

Valves we work with include:

- Cold-water Circuit Valves
- Safety Relief Valves
- All Isolation Valves
- Control Valves

IVS's services:

- Overhaul and repair
- In-situ testing of Safety Relief Valves
- In-situ lapping with mobile lapping machines up to 28"
- Mobile safety valve test equipment up to 6"
- Site surveys with full engineers' detailed reports and recommendations
- In-situ calibrations of control valves

The benefits of using IVS include improved safety and efficiency, continuing performance to OEM standards, reduced lifecycle costs, and fast response and turnaround.

www.ivs.co.uk



Nuclear case study: Cold-water circuit butterfly valve overhaul

When a nuclear sector client needed a 78-inch butterfly valve refurbished, IVS's technicians completed the work in just four weeks.



Forward planning and good communication were key and after being transported to our Swansea workshop, the valve was stripped and inspected.

The butterfly valve, which plays a critical role in controlling the cooling waters that prevent boiling within a nuclear reactor, was then completely overhauled to restore it to OEM standards and prepare it for another long service period.

Our client was delighted by the quality and speed of IVS's work.

The process

IVS's process was fully documented with all work, testing and inspection carried out to meet OEM specifications and according to quality processes.

- ✓ The body - after being shot blasted, non-destructive (NDT) tests showed that weld repairs were required on the lifting lugs. These were completed, leading to a 100% acceptable test result.
- ✓ Body edges were filled and Belzona Epoxy Coating applied.
- ✓ The blade was shot blasted back to bare metal, and new coatings were applied.
- ✓ Worn trunnion bearings were replaced as were all O-rings, fasteners and the D-section seal.
- ✓ Drive and non-drive shafts – all holes were cleaned, re-drilled and tapped (where required) and reused.
- ✓ Shear pins were in poor condition and renewed.



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IVS is part of Amcomri Group, which acquires and develops quality British engineering and manufacturing businesses. We work with other Amcomri companies to provide additional specialist support and parts where required.