



Services for the Utilities & Power Generation Sector

A Comprehensive Range of Onsite UHP Water Jetting Services



GIVING WATER THE CUTTING EDGE

RGL



Concrete removed by water jet from around pressurised Pumping Mains



Boiler Tubes cleaned by remote control water jet



Coatings removed without scaffolding using RGL's "Limpet Crawler" vacuum blast head

TEN REASONS TO USE RGL'S SERVICES IN THE UTILITIES AND POWER GENERATION

1 The UK's leading UHP water jetting services provider

For over 30 years RGL has been building its reputation as one of the leading ultra high pressure water jetting service providers in the UK. We have acquired considerable experience working on an extensive range of projects in power generation and transmission, clean and dirty water for; utility asset owners, civil engineering contractors and equipment manufacturers.

Whether it's:

- Nuclear, gas fired, or biomass.
- Power from waste facilities or wind farms.
- Electricity and gas transmission networks.
- Clean water treatment plants and reservoirs.
- Sewage treatment facilities.

we've got the services, plant, people and expertise to provide an unrivalled service.

2 Services for utilities/power generation and transmission sectors

RGL offers an impressive suite of equipment and trained teams of operators and management that deliver a wide range of innovative water jetting solutions for the maintenance and repair of utility and power infrastructure. Some examples are:

- Economiser cleaning to remove compacted ash.
- Primary and Super Heater Tube Bank Cleaning.
- Vibration free remote control Refractory Lining removal.
- Concrete hydrodemolition of jetties, marine structures, foundations and concrete bases etc.
- Scabbling and surface preparation of concrete.
- Coatings removal, surface preparation and painting of castings, pipework, pressure vessels, gas holders and tanks.
- Cold cutting of steel pipework, gas pipelines, storage tanks and sewage mains.
- Tube cleaning of heat exchangers and condensers.
- Pipeline and drain cleaning and descaling.
- Remote control tank and vessel cleaning.

3 Resources for planned or emergency projects

Planned upgrades/ maintenance

When it comes to high profile utility type projects we fully understand the challenges faced by project managers in implementing a series of critical upgrade or maintenance

tasks within very tight timescales. As these projects are typically planned well in advance, you can rely on RGL's project managers to fully establish your requirements at an early stage in order to guarantee the deployment of appropriate crew, plant and equipment and get the work completed within agreed timescales.

Emergency solutions

Despite your best efforts, regular maintenance routines may not always be sufficient to prevent unexpected process failures— and for which retained service suppliers cannot offer viable solutions. You can rely on RGL to make our crews available at short notice to speedily and efficiently devise and implement solutions to overcome even the most technical challenges.

4 Understanding and delivering your requirements

We understand that our specialist water jetting services are often just part of a wider maintenance or upgrade process in which critical tasks have to be completed on time – especially where outages have to be kept to an absolute minimum. You can rely on RGL to undertake an in-depth assessment of each task which identifies service solutions and risks. This involves preparing site survey reports, undertaking trials, work sequencing and preparation of method statements so that you can have full confidence that our proposals will achieve exactly what you require. This is backed up with robust site safety, quality and environmental plans to meet your specification. We also ensure you understand and make adequate provision for any supporting facilities or services that you will be required to provide us.

5 Focus on health, safety and quality

With RGL you can be assured that we actively manage every facet of our operational practices to ensure we meet industry standards and exceed your expectations. We comply with the Water Jetting Association's safety code of practice. As active members of the Association we are continually involved with new industry initiatives to help improve safety. Our site teams are appropriately trained and have high levels of competence for each of our specialist activities. RGL are accredited under quality standard ISO 9001, 18001 and 14001 and are also



Compacted Ash Removed from Boiler Economisers

RGL rig is compact and mobile

Hole cut in Gas Holder Crown using RGL's "Jetnife"

SECTOR

comprehensively insured for all types of project site and locations. Our Health, Safety and Environmental Policies are also reviewed and re issued regularly, thus maintaining our drive for continued improvement in this critical area.

6 Management of the project environment

Whether it's water availability, site access, noise, waste handling, site safety, day or night working you can rely on RGL to successfully and concisely manage the project environment. We are particularly sensitive to the demands of working in utility environments such as nuclear, marine or clean water sites. All our processes have low environmental impact. For example, during our cold cutting process we use an inert rock. During our concrete hydrodemolition process we can return treated waste water to the environment. All our water Jetting Pump units are fitted with the latest efficient engines. In addition, our ultra high pressure, low flow cutting methods use up to 50% less water than most of our competitors on like for like tasks.

7 Expert crews and top spec equipment

We probably have the most experienced, productive crews in the UK

Our crews can expertly utilise remote control semi automatic equipment or Low reaction Force hand held safety lances for precision cutting or cleaning. These are linked to trailer or truck mounted pumps with an output range of 20-250 litres per minute and pressure up to 3000 bar. The combination of expertise and controlled power delivers high levels of efficiency and productivity.

8 A nationwide network

Our crews are located throughout the UK and managed by our head office in Hampshire to ensure we offer an accessible, convenient and cost effective nationwide service.

9 Innovative plant and equipment

RGL is at the forefront of developing innovative ultra high pressure water jet cutting and cleaning services which

deliver practical, effective, safe solutions for the utilities and power generation sector:

■ Boiler cleaning

RGL have developed remote control semi-automatic jetting equipment to quickly and effectively remove compacted ash from between tube banks in Economisers and in Primary and Secondary Super Heaters. Our system returns tube surfaces to near perfectly clean condition which means we restore optimum heat transfer/boiler efficiency.

■ Concrete hydrodemolition

We are one of the few service companies that undertake hydrodemolition with ultra high pressure water. This delivers precision cutting to any depth within very tight tolerances – and reinforcing steel can be either left undamaged or cut /removed if required. The remaining structure retains its original integrity without suffering any damage or cracking. Concrete and steel surfaces are left ready for subsequent repair works. This process is also vibration free which means that delicate plant and equipment and critical structural concrete elements are left undamaged.

■ Cold cutting

We use ultra high pressure water jets, combined with a fine abrasive to cut almost any material without creating heat or sparks. This process is ideal for cutting into tanks or pipes that may contain volatile gas or liquid. This is a very versatile cutting tool which is operated in a remote control manner. The equipment is portable and also works under water. It is particularly effective at cutting steels and cast iron.

■ Coatings removal and surface preparation

On storage tanks and other steel structures RGL can remove coatings by hand held lances or by automated methods.

For flat surfaces such as oil or gas storage tanks we offer a cheaper, safer and more effective alternative to open abrasive blast cleaning. Our UHP "Limpet Crawler System" is an effective method of removing paint and rust which is zone rated and avoids the need for expensive scaffolding or sheeting. Furthermore, the in-built high power vacuum removes the water and waste which are then separated through a filtration system. All arisings are captured and the surface is left warm and dry.

■ Refractory lining removal

We have successfully developed and proved a new method of removing refractory lining material using a remote controlled Hydrodemolition process. This means we avoid many of the health and safety issues associated with men working in confined spaces – it also avoids the HAVS issues that occur through the use of jackhammers. There is no percussive impact, which means that delicate boiler tubes/water walls are left undamaged.

■ Process pipeline cleaning

Our Rotoream system is an innovative method for process pipeline cleaning which can navigate long lengths and multiple bends. It uses a rotating nozzle attached to a high pressure hose. This system unblocks and flushes as it cuts, allowing removal of various substances such as a slurry, rust, lime scale, cementitious lining, marine growth or failed protective coatings. The system is capable of cleaning pipes over 1KM in length.

■ Tube cleaning

Heat exchangers in power stations often require regular unblocking or de-scaling, but this can sometimes be beyond the capabilities of routine maintenance methods. RGL have an extensive range of equipment which enable us to tackle almost any heat exchanger tube cleaning task – we can unblock tubes that are choked with even the hardest materials and polish the tubes ready for IRIS inspection. We tackle the challenges using portable semi-automatic equipment which can be deployed onto the plant and into areas with restricted access. These 'in situ' tube cleaning jobs which may be at a high level can be undertaken swiftly and safely.

each use. We have a programme of scheduled preventative maintenance which means that we are able to change out components before they fail and cause delays. Our team also ensure routine servicing to manufacturer's recommendations is undertaken to engines, pumps and all ancillary equipment. All equipment is pre-delivery inspected and tested to full working pressure prior to every new job start. Records are meticulously kept of maintenance tasks undertaken. This focus on maintenance helps us minimise breakdowns by continuous improvement and thus enables us to ensure we deliver our projects for our customers without programme slippage during critical outage periods.



Refractory removed from boiler tubes using water jet



Heat Exchanger tube internals cleaned and polished for IRIS inspection

10

Minimal breakdowns

RGL directly employ a full time maintenance team to ensure our equipment is meticulously prepared for

In summary, we will do our utmost to deliver complete satisfaction to you by:

- responding quickly to your enquiries
- working with you to fully understand your requirements
- providing you with the benefit of our experience
- preparing detailed site safety, quality and environmental plans, including method statements and risk assessments
- providing competitive quotations
- delivering on what we promise for project start and duration
- deploying experienced crews and proven, correctly maintained equipment
- working within site safety rules and regulations
- managing the project environment including waste water treatment and filtration
- managing each project through to completion
- COSHH Assessment and measures to avoid adverse environmental impact



“What we say
....we do”

Paultons Park, Ower,
Romsey, Hampshire SO51 6AL U.K.
South - T: +44(0)238 081 7160 F: +44(0)238 081 4016
London - T: +44(0)203 102 6840 North - T: +44(0)161 457 1215
E: enquiries@rglservices.co.uk W: www.rglservices.co.uk

RGL Company Registration Number: 01788078

