

in safe hands



JL Goslar

EXPERTISE

BORNE OF

EXPERIENCE

OFFERING YOU

EXCELLENCE

**Decontamination
Technology**

Engineered in Germany



THE EXPERTS IN DECONTAMINATION AND WASTE CONDITIONING EQUIPMENT

JL Goslar is an internationally renowned expert in radiation protection and provides state-of-the-art plants and processes, which offer maximum operational safety and cost efficiency. These plants are mainly designed as mobile units, to enable installation and transport between different nuclear sites. Using the latest technologies available the units are designed to meet your individual requirements.

The plants are designed to recover and return the maximum possible solvents to the nuclear plant: only dewatered filtration residues or ion exchangers leave the site. The plants are provided in a turnkey form, including all necessary safety equipment, switchgears and radiation shielding systems. When it comes to treatment of nuclear waste our experience and expertise mean **you're in safe hands**.

NON-DESTRUCTIVE PRIMARY CHEMICAL DECONTAMINATION LOOPS

Chemical decontamination destroys parts such as seals, mechanical seals & bushes.

In the event that the equipment is not scheduled for final decommissioning, protective action can be taken to enable the Nuclear Power Plant (NPP) or subsystem to restart, thereby lowering the maintenance costs substantially.

To protect the mechanical components, JL Goslar provides the ETS barrage system to avoid that the decontamination solution comes into contact with the surfaces requiring protection.

This process has been successfully used, in 2010, in the Grafenheinfeld NPP and will be used in the Unterwieser NPP as well.

JL Goslar is one of the only suppliers worldwide who offer this technology.

CHEMICAL DECONTAMINATION LOOPS

JL Goslar provides equipment and plants with the unique technology for decontamination as well as treatment/conditioning of resulting waste. For the decontamination waste, JL Goslar develops treatment solutions, which work by dewatering, drying, evaporation, grouting or mixing in a stabilization matrix. **All from one supplier – JL Goslar!** Closed loops are utilized for the circulation of solvent through the system for decontamination of:

- Main coolant circuits (or confined parts of circuits)
- Secondary loops (sub systems, heat exchangers circuits and injection systems)
- Vessels, heat exchangers, evaporators and tanks
- In place decontamination for mechanical equipment such as primary circuit pumps
- Workshop decontamination equipment for dismantled mechanical components such as pumps, valves, vessels...



STATE-OF-THE-ART FILTRATION

One of the challenges faced while decontaminating plants or equipment is ensuring the safety of the plant operators and avoiding contamination caused by accidents. Here the "classical" use of bag filters to remove particles from the decontamination solution can prove critical because, once clogged, contaminated filter bags need to be removed, in most cases manually, which entails removing the bag, transferring the bag in a cask and the closing off of the filter. These operations are complicated and unsafe.

The JL Goslar automatic cleaning filters do not use bag filters. This means no opening of the loop is required. This highly specialized technology has proven successful in German plants – another safety improvement concept from JL Goslar.

For polishing of decontamination fluids, latest ion exchanger technology is used. In addition, the solution for conditioning of the ion exchanger waste is also available – **all from JL Goslar!**

SERVICES

- On-site assignments – such as the modification of plants
- Consultancy, analyses and studies
- Assistance – for process development
- Commissioning of plants and training of plant operators
- Engineering – improving existing processes; engineering/manufacture of control cabinets; engineering of plant instruments, pneumatic systems and drives
- Manufacture of pumping systems, valves, pipes and much more...

OTHER DECONTAMINATION SYSTEMS

- Decontamination liquid / wash water treatment plants including
 - Evaporation plant
 - Water, vapor and mist recovery systems
 - Vapor condensation plants
- Decontamination chambers with complete effluent recovery / treatment and waste conditioning systems

JL Goslar GmbH
Im Schleeke 108
D-38640 Goslar
Germany
Phone +49 53 21 7 54 0
Fax +49 53 21 7 54 333

info@jlgoslar.de
www.jlgoslar.de