Mercury wastes from the Oil and Gas Industry

Providing clean solutions for hazardous waste
Batrec is a company based in Wimmis/Switzerland specialised in hazardous waste treatment/recovery. Services offered by Batrec include the recycling of batteries, treatment/recovery of hazardous wastes containing mercury, the reactivation of activated carbon and the decontamination of mercury guards for customers from all over the world. Batrec turns waste into a resource and so ensures a closed materials cycle. As a Swiss company, Batrec applies the highest environmental and safety standards. Batrec has worked in the field of hazardous waste processing since 1989 and is a part of the Veolia Group.

Types of waste streams

- Sludge & slurries
- Mercury adsorbents
- Activated carbon
- Mercury
- Ceramic balls
- Decommissioning waste
- Contaminated PPE
- Reactivated AC
- HgS
- Copper recovery
- Decontaminated guards
- Furnace
- Distillation
- Mercury stabilisation
- Spent Hg guards
- Spent AC containing Hg
- Decontaminated guards
**Process flowsheet**

### 1 Thermal Treatment
- Desorption of the pollutants at 750 – 850°C
- Destruction of the organic pollutants in the post-combustion chamber

### 2 Waste Gas Wet Cleaning
- Condensation of Mercury
- Removal of Sulfur

### 3 Waste Gas Dry Cleaning
- Removal of trace level Mercury
- Removal of other pollutants and fine dust removal HEPA Filter

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**Waste Water Treatment**
**Traceability throughout mercury removal process**

- wastes accompanied by movement form for hazardous wastes
- registered in our ERP
- audit and end-user
- monthly reporting to FOEN and local authority
- Audit end-user export permit
- monthly reporting to FOEN and local authority

**Stabilisation of mercury**

BATREC’s approach turning highly toxic Hg into non-toxic HgS

- Hg(0) + S²⁻ → HgS(5)

**Capacity**
- 500 - 625 kg mercury / batch
- 3 reactors
- 1,200 t mercury / year

**Process characteristics**
- simple reactants
- low temperature
- wet process
- guarantees very low Hg emissions
- no gaseous Hg in the process
- short reaction times

**Offering a complete safe management of the Mercury**

- Full transparency to customers and authorities
- External sampling, mass balancing & reporting
- Full service from customer to final disposal [notification, transport,…]
- Supply of approved transportation containers for Hg (No investment costs for the client)
We treat mercury waste with Swiss quality.