

## Centrifugation

### Advanced Radwaste Treatment

Treatment of liquid radioactive waste without generation of secondary waste

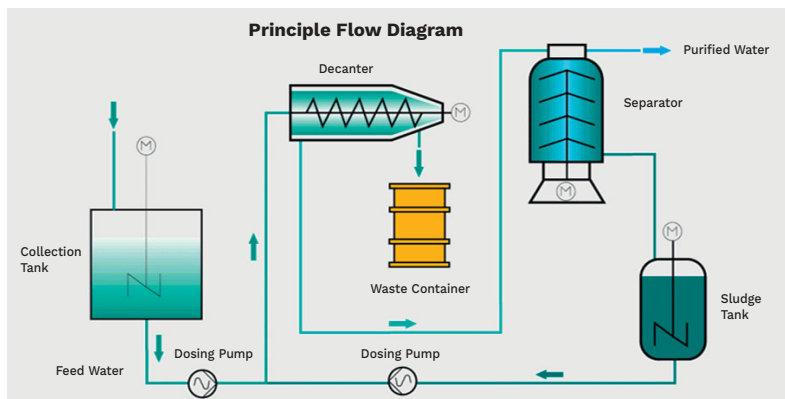
#### Challenge

The operation of nuclear power plants creates liquid radioactive waste. This waste comes from laundry waste water, decontamination water from sinks and showers, sump water, regenerants and other sources. This waste water contains undissolved radioactive contaminants and non-radioactive particles.

#### Solution

We have therefore designed a system to decontaminate and clean radioactive wastewater. This process replaces mechanical filtration to achieve mechanical cleaning of waste water with a high volume reduction effect, generating dry or dewatered waste and no secondary waste.

It is also a method of pre-treating liquids before they are introduced into an evaporator.



© radwaste treatment system

#### Technical information

##### Design Data

- System throughput: 2 to 10 m<sup>3</sup>/h
- Residual moisture of product:
  - Less than 30% by weight (except treated resin: approx. 50% by weight)
  - No freestanding water.
- Decontamination factor: up to 100



© separator (foreground), decanter (background)

#### Key figures

- System flow rate: up to **10 m<sup>3</sup>/h**
- Residual product moisture: **< 30 wt.%**
- Decontamination factor of up to: **100**

#### Customer benefits

- High volume reduction effect, generating dry or dehydrated waste and no secondary waste
- No filter plugging and no back washing problems
- Same, or even better decontamination as with mechanical filter systems
- Economical operation

**Your performance is our everyday commitment**

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