

OSMO – Successful membrane technology for STEAG SaarEnergie

Best results with ultrafiltering

A Europe-wide tender was issued at the beginning of the year for a power plant of STEAG Saar Energie in order to replace the existing, conventional ion exchange system with modern and secure membrane technology.

Competence in surface water processing

OSMO Membrane Systems GmbH was able to convince the energy producer with references from the sector of surface water processing with mem-

brane processes and was granted the contract for delivery of modern membrane technology for a power station owned by STEAG Saar Energie. The entire processing technology comprises multi-layer filters, ultrafiltration, reverse osmosis, membrane degassing and conventional mixed bed filters. In accordance with the necessary requirements of the power plant operation a pure water quality of less than 0.08 $\mu\text{S}/\text{cm}$ must be achieved (in accordance with VGB (European Power Plant Suppliers Association) guideline 450I). The flow rate efficiency of the entire system is 40 m^3/h .

High system availability with ultrafiltration

An important element in the process chain is the ultrafiltration, which securely separates the solids contained in the gas. The ultrafiltration system also retains a large proportion of organic, bioavailable components that can reduce the efficiency of the following stages, e.g. reverse osmosis or ion exchangers. The ultrafiltration technology thus ensures high availability of the system as a whole.

The delivery of the system for the first quarter of 2008, handover to the client is to take place at the beginning of June 2008.

