

» Boiler Feed / Process Pure Water



SK Energy

Ulsan, South Korea

Plant Information

- APPLICATION Boiler Feed Water
- PERMEATE CAPACITY 3.8 MLD
- PRETREATMENT Clarifier › Gravity Filter › A/C › Cartridge Filter
- RO MEMBRANE TYPE Brackish Water Membrane
- RO MEMBRANE MODEL **RE8040-BE**
- RO SYSTEM ARRAY 21:11:5 (Single pass, 3 array, 6 elements per pressure vessel)
- INSTALLATION November 2000



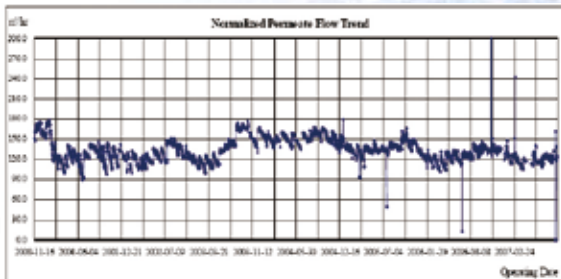
General Information

SK is an energy and petrochemical producer in the Asia-Pacific region. CSM brackish water RO membranes were installed to produce high-quality boiler feed water and process water. This RO site has been in operation for 8 years. In 7 years of its operation, the normalized flow-rate decreased about 30% from 170 m³/hr to 120 m³/hr, and salt rejection decreased 5% from 97.5% to 92%. Normalized differential pressure increased about 80% from 5 kg-f/cm² to 9 kg-f/cm².

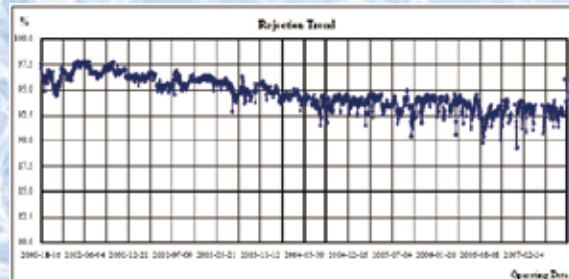
Technical Information

(refer to graphs)

Graph 1. Normalized Permeate Flow Trend
(Nov. 16th, 2000 to Sept. 14th, 2007)



Graph 2. Salt Rejection Trend
(Nov. 16th, 2000 to Sept. 14th, 2007)



Graph 3. Normalized Differential Pressure Trend

