

» Boiler Feed / Process Pure Water

# Samsung Total

## Daesan, South Korea

### Plant Information

- APPLICATION Boiler Feed Water
- PERMEATE CAPACITY 70,000 m<sup>3</sup>/day
- PRETREATMENT Conventional Process
- RO MEMBRANE TYPE Fouling Resistant RO Membrane
- RO MEMBRANE MODEL **RE8040-FD**
- RO SYSTEM ARRAY 25:12:7 (Single pass, 3 array, 6 elements per pressure vessel)
- OEM Toray



### General Information

Samsung Total is one of the largest petrochemical companies in Korea. RO Membranes are currently installed to purify lake water for use as boiler feed and process water. This particular lake water has high levels of salt and SDI (Silt Density Index). Due to this reason, the major problem with the membranes at this site is membrane fouling; but with CSM FRM (fouling resistant membrane) RO elements, fouling is minimized and significant amount of costs have been reduced.

### Technical Information

Since the replacement of the membranes on March 29th 2006 and seven months afterwards, salt passage increased by 0.5%.

