

Shuaibah Desalination Plant, KSA

Potable Water Supply and Power Plant Boiler Feed Water Make-up



Year: 2007

Start-Up Date: 6/2009

Client/Owner: Doosan Heavy Industries & Construction

Engineer: DHT

Location: Shuaibah, Saudi Arabia



Application: Potable Water

Scope of Work: Provide design, manufacturing and supply of a remineralization system for post treatment of MSF distillate.

Operation Data: Feed water TDS: 52,000 mg/l,
Permeate TDS: 12 mg/l,
Permeate flow: 630/train,
Recovery: 60%,
Other: two (2) pass system

Capacity: 9 MGD

Project Summary: This system was designed with an open intake and ten (10) 2-pass SWRO systems. It incorporates the PX type of energy recovery device. Our contract was to provide engineering for the complete SWRO system, including the chemical dosing systems.

