Jeddah Reverse Osmosis (RO) Phase 1 desalination plant is located at the Red Sea in Jeddah, Saudi Arabia. Due to the geographic location, the climatic conditions and the need for reliable water supplies near population centres, seawater desalination is one of the most important methods of producing water.

The seawater reverse osmosis (SWRO) desalination plant Jeddah RO Phase 1 has a capacity of 48848m³/day. The plant was commissioned in 1989. The client needed to refurbish and upgrade the complete operational control and automation system to replace the existing obsolete DCS system.

ABB's response to fulfill end user's needs was to deliver solution based on Symphony (Melody) / Maestro UX operational control and automation system which was integrated with the existing plant management system. The scope of ABB's services included design and engineering, manufacturing, supply, installation commissioning as well as the dismantling of the existing obsolete DCS system.

On account of ABB's expertise and capability to successfully execute such challenging projects, and ABB's longstanding project experience in desalination, the project was finished within an extremely short delivery and commissioning time (only 10 days plant shut down).

Enduser: Saline Water Conversion Corporation (SWCC), Jeddah, Saudi Arabia.

The project was completed in October 2007.
Technical Specification / ABB Scope

Jeddah RO Desalination Plant Phase 1

– 1x 230 V UPS (inverter)
– Control system and telemetry (extension)
– Symphony (Melody)/ Maestro-Ux DCS control system
– System Operation training system
– Erection
– Commissioning
– Dismantling of the existing system
– Co-ordination and supervision of all shut-down activities

Note:
We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB AG does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents - in whole or in parts - is forbidden without prior written consent of ABB AG.

For more information please contact:

ABB AG
Power Systems
P.O. Box 10 03 51
68128 Mannheim, Germany
Phone: +49 621 381 30 00
Fax: +49 621 381 26 45
E-mail: powertech@de.abb.com

Copyright© 2010 ABB
All rights reserved