Makkah Al Mukarramah Pumping Station
Makkah – Saudi Arabia

Makkah al Mukarramah is a new pumping station for supplying drinking water to several reservoirs and water networks of the Holy City of Makkah.

Water will be delivered, either by pumping or by gravity, from one DN 1600 suction line with a pipe branch to the Arafat reservoir, into 4 possible discharge lines, ranging in size from DN 800 to DN 1100.

The client is the Water and Sanitary Authority Makkah al Mukarramah, SAUDI ARABIA.

ABB was the subcontracter responsible for the complete mechanical, electrical and automation work, as well as the SCADA system for a pipeline network.
Technical Specification / Scope:

- 3 pumps rated 2917 m³/h each, head: 94 m
- 3 motors rated 1000 kW, 4.16 kV each
- MV & LV switchgear sections, 4.16 kV and 0.4 kV
- 2 transformers 2 x 3 MVA, 13.8 / 4.16 kV
- 2 transformers 2 x 400 kVA, 4.16 / 0.4 kV
- 4 diesel generators 1.2 MVA, 4.16 kV
- piping and cranes inside the pumping station
- complete flow, pressure and level instrumentation
- MV and LV control cables
- HVAC, fire alarm & lightning systems
- automation, control and SCADA systems

Completion date expected August 2004