

### Qassim – Water Supply

**LOCATION:** Qassim, Saudi Arabia

**SYSTEM/TECHNOLOGY:** ABB Procontic, SCADA system, frequency converter LCI

**SERVICES:** Commissioning, Project management, Basic-engineering and pre-engineering, Detail engineering, Installation supervision

**INDUSTRY BRANCH/TYPE OF PLANT:** Large Plants, Industrial systems

**CLIENT:** SWCC, Saudi Arabia by ABB Utility Automation

**PROJECT SIZE:** SFr 1 m

#### PROJECT DESCRIPTION

In 1985, the Saline Water Conversion Corporation (SWCC) ordered two pumping stations and five terminals from the former BBC in order to provide drinking water supply in the region of Qassim, Saudi Arabia. Following a lengthy interruption, the project was continued by ABB in 2001. The scope of delivery by ABB included medium and low-voltage systems, static frequency converters, 32 medium voltage motors, process control and monitoring as well as the telecommunications system.

INP Switzerland supported ABB to a significant extent in successfully implementing the project, and with its knowledge of BBC technology (which was no longer available at ABB), succeeded in achieving the "mechanical completion" milestone on schedule. INP Switzerland provided two commissioning engineers, one site manager and a deputy project manager. The plant has been in commercial operation since 2003. The final acceptance certificate was issued in 2005.

#### INP services

- Deputy project management
- Documentation
- Site management
- Commissioning
- Performance tests
- Project conclusion

#### DATA

- Medium-voltage system type BB1 HB
- Low-voltage system SACE MNS
- Three-phase squirrel-cage motor type QR

#### POINTS OF CONTACT



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## INP Reference

- Variable drives with synchronous motor type AWSW 560/6-222
- Static frequency converters type Verithyr P1e
- Procontic DP 800 and DP 800 K
- Instrumentation