

DBE mbH

Client
DBE mbH

Construction time
10/2015 - 10/2016

Order value net
120,000 €

Contractor
FRIEDRICH VORWERK SE & Co. KG

Own work
Maintenance and preparation of valves and manholes, repair of PE HD overhead pipelines DN 1200

Subcontractor services
Air-water flushing and Pressure tests of the gravity and pressurised water brine pipes

Features
Air-water flushing and Pressure tests of the gravity and pressurised water brine pipes

Contact
www.friedrich-vorwerk.de

Flushing, maintenance and periodic inspection of the brine line

The Deutsche Gesellschaft zum Bau und Betrieb von Endlagern für Abfallstoffe mbH operates several facilities for the interim and final storage of highly radioactive waste on the territory of the municipality of Gorleben in Lower Saxony under the name Gorleben Nuclear Waste Repository.

When the rock salt is stockpiled, saline surface water accumulates, which is partly used internally for wetting the pile. The remaining saline water is collected in tailings pond water retention basins and discharged as excess water to the Elbe via a pressure pipeline about 4,700 m long. The internal pipeline network consists of gravity pipes (HD PE DN 900 - DN 1200) and pressure pipes (HD PE Da 180 and HD PE Da 125), which were built in accordance with the TRbF 301 guideline for the transport of liquids hazardous to water.

In order to check the pipes, they must be subjected to a repeated leak test every five years. The internal pressure pressure tests were carried out on the basis of DIN EN805 were carried out. Beforehand, the pipes were cleaned cleaned by means of an air-water flushing process. In the pressure tests, the fittings and manhole and manholes were checked and repaired.