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ROMTEC UTILITIES TECH NOTES

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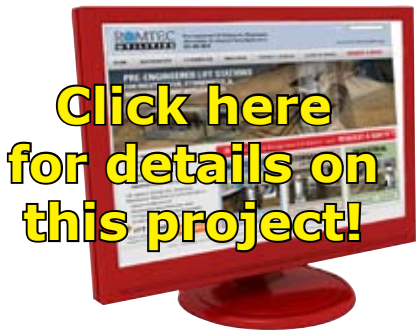
Pre-Engineered Lift Stations for Wastewater, Stormwater and Industrial Pumping

Power plant pump stations in South Dakota



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Basin Electric Power Cooperative is a consumer-owned, regional cooperative headquartered in Bismarck, North Dakota. It generates and transmits electricity to 126 member rural electric systems in nine states.

This summer, Basin Electric will cut the ribbon on its second 95-megawatt "peaking plant" at the Groton Generation Station in northeast South Dakota; the first unit went online in July, 2006. The station utilizes two General Electric LMS100 simple cycle gas turbines that produce electricity during periods of high demand, supplementing larger base load generators.

The station features two Romtec Utilities lift stations to collect and move process water to a retention pond on the site. Each pump system includes a pre-cast concrete wet well, 6' dia. x 13' deep, with two ITT Flygt submersible pumps. Also included are preassembled piping and valves, plus electrical controls that interface with the plant's SCADA system.

Why are the lift stations needed? "The site is very flat," explains Dick Shaffer, Basin Electric mechanical engineering supervisor and project coordinator. "We have to pump clean process wastewater several hundred feet to a retention pond so that we don't saturate the plant site."

"The design of the lift station and quality of components seem very good," says Tony Skonhovd, manager of the Groton Station.

A shallow water table posed a challenge for contractors during wet well installation, but the pre-engineered system minimized installation time and helped get that job done quickly. In general, installation was "easy, fast and good," says Brian Letheridge, field engineer for The Industrial Company (TIC), the contractor on both phases of the Groton project. "And the pumping capacity of the station was just awesome," he adds.

The second Groton plant is expected to go online in July of 2008.

A second generator would soon join the world's first commerical GE Energy LMS100. (2006 photo courtesy of BEPC)

THIS EDITION reports on two 95-megawatt electrical generation plants near Groton, S.D. using Romtec Utilities pre-engineered lift stations with ITT Flygt submersible pumps.

Various industrial applications rely on submersible pumping systems to move process water and stormwater. Romtec Utilities has also supplied pump stations to electrical generation plants in Southern California (TechNotes, Mar.-Apr. '08).

ITT | Flygt

ITT Flygt is a strategic partner of Romtec Utilities and the world's leading manufacturer and supplier of submersible pumps & monitoring systems.

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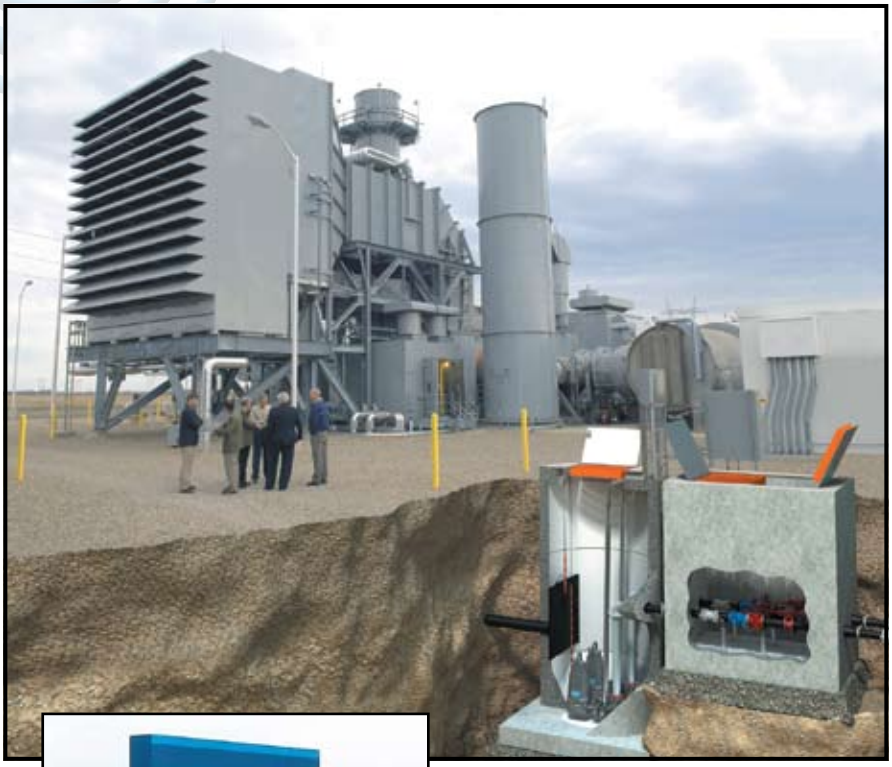

Photo-illustration shows proximity of pump station to generator.

Open for business - second pump station pictured during start up and testing.

Station is 18 miles SE of Aberdeen, S.D.

L-R: wet well w/pump disconnect panel, valve vault, control panel (back of panel visible)

For More Information

Romtec Utilities designs, manufactures & delivers complete pre-engineered lift stations for wastewater, stormwater and industrial pumping applications. Romtec helps you meet deadlines with pre-engineered systems that typically deliver to the job site six to eight weeks from the date of submittal approval. For more information, call Romtec Utilities at **541-496-9678** or visit:

www.RomtecUtilities.com

Site is located near Western Area Power Admin. lines and nearby substation and by Northern Border (natural gas) Pipeline.