

PROJECT

Sea Water Intake and Outfall, Cooling Water, Fire Water



LOCATION

Titan Methanol Trinidad & Tobago

END USER

Methanex Trinidad & Tobago

CONTRACTOR

Lurgi Oil and Gas GmbH

COMPLETION DATE

1999

DESCRIPTION

This gas processing plant, one of the largest in the world, was built in 1983. For the underground fire water and cooling water applications, glassfiber reinforced epoxy has been used from the start. The metal (CuNi) aboveground applications which were used in 1983 have since then been replaced by GRE.

PIPE SYSTEM

From 50mm up to 1200mm, several glassfiber reinforced epoxy lines have been supplied for aboveground application on sleepers and pipe racks with clamps. Pressures range from 8 up to 32 bar. Connections have been made with adhesive bonded joints and Rubber Seal Lock Joints. As much as possible spools were delivered on site, to decrease the installation time. Total project value is approximately USD 2,000,000

SCOPE

- Stress and Surge analysis
- Engineering incl. Isometrics and Spool drawings
- Fabrication
- Training
- Supervision

THE FPI ADVANTAGE

Due to the high velocity and the high sand content in the seawater intake and outfall lines Lurgi decided to use GRE pipes, especially because of their high abrasion strength at high velocities which is much more reliable as the traditional cement lined pipe systems.

The UV resistance of GRE was also a big advantage as well as the fact that GRE is not attacked by osmoses.