

CASE STUDY

Documentation of the repair of the transmission pipeline, made with the help of composite materials WELD REINFORCEMENT, SRP, HIGH PRESSURE

Weld degradation is a serious problem encountered in the daily

operation of natural gas transmission pipelines. It is a problem that is

difficult to repair, while in most cases repairs using welding are

prevented due to the fact that the pipeline is operating under pressure,

on the other hand, in most cases it is not possible to take the pipeline

out of service. In repairs of such cases, composite materials come to

the rescue. Gascontrol Polska sp. z o.o., thanks to the TUV certificate

for the GC Wrap reinforcement system used and the approval of the

repair technology by the UDT, can perform such repairs (supported

by engineering calculations) on transmission pipelines operating at

In the described case of the repair, the welds on a tee assembled on

a pipeline with a diameter of DN150, operating at a working pressure

of 3.5 MPa, had to be strengthened without taking the installation out

of service. The repaired section of the pipeline was located on the

territory of a reduction and measurement station in the Silesian

working pressures up to 10 MPa.

APPLIED SOLUTION

REPAIR TECHNOLOGY DEVELOPED BY AN INTERNATIONAL TEAM OF **ENGINEERS**

EFFICIENCY

GC Wrap is the highest quality fiberglass and carbon fiber systems original working strength of damaged or corroded transmission pipelines and pressure vessels. With full compliance to ASME PCC-2 and ISO TS 24817 technical standards. service life extensions are possible up to 50 years.

PIPING PROTECTION

GC WRAP can be applied on tees, elbows, and, of course, straight runs of pipe, in confined spaces and on irregular surfaces - wherever structural reinforcement or leak containment is required. The adhesive properties of the urethane and the use of an epoxy primer allow it to be applied to most substrates

COMPLIANT TECHNOLOGY

GC Wrap is compliant to the ISO TS 24817 technical standard, ASME B31, .8, .4, .G and PCC-2 Art. 4.1, 4.2. as well as API 570. Please refer to: API 570, Section 8.1.4 – Non-welding technology with composite materials is approved by the UDT.









RESULT

PROBLEM

The use of composite repair materials made it possible to carry out the repair without taking the pipeline out of service. The repair performed in accordance with the ISO TS 24817 technical standard guarantees the extension of the pipeline's service life for up to 20 years. Gascontrol Polska sp. z o.o. has a team of gualified specialists and more than 50 completed applications for repairs with composite materials.



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