

REPAIR TECHNOLOGY

DEVELOPED BY AN INTERNATIONAL TEAM OF

ENGINEERS

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.

GC WRAP can be applied on tees.

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

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:

technology with composite materials is

approved by the UDT.

up to 50 years.

substrates.

PIPING PROTECTION

service life extensions are possible

EFFICIENCY

CASE STUDY

Documentation of the repair of the transmission pipeline, made with composite materials CLOSURE OF THE RELIEF FLANGE CONNECTION DN 400

PROBLEM

The subject of repair at the Zinc Smelter in Miasteczko Slaskie was a natural gas leak located at a flanged connection with a diameter of 400 mm, which was located around the circumference of the connection. The pipeline was operating at a working pressure of 4 bars. The room where the leak was located belonged to a hazardous area, which is why there was no possibility of using any technology that could cause sparks (so-called hot work).

APPLIED SOLTUION

Gascontrol Polska sp. z o.o.'s team of specialists, trained to carry out repairs using composite materials in accordance with the ISO TS 24817 technical standard, decided to prepare the surface in the relief region using sandpaper. A two-component epoxy filler was then used to seal the surfaces between the flanges. A dynamometric wrench was also used to properly adjust the bolts connecting the gate valve to the main pipeline.

RESULT

After ensuring that the relief was closed (using a gas-analyzer), it was proceeded to protect the flange connection with a composite material made of urethane-soaked fiberglass, the use of which permanently protected the epoxy putty and allowed the flange connection to extend its service life by 10 years. Finally, the repair site was wrapped with petrolatum tape and UV isolation tape. The repair was completed in four hours by a team of three technicians working on site along with a supervisor.











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