

PMC work for DNV GL to fit 24 epoxy sleeves on SGN's HP pipeline

As a result of a new bypass road being built, part of the local gas infrastructure will be affected. As the new road construction will change, so will the pipeline requirements imposed by IGEM/TD/1 for high density road crossings.

SGN commissioned DNV GL Repair & Intervention Unit to propose and design an epoxy grout sleeve solution which will be installed prior to the new road construction under 'live' conditions.

The project was to design, manufacture, and install a number of interlocking epoxy sleeves, analysis of pipeline stress during excavation, temporary supports arrangements, engineering support on backfill, long term ground settlement and surface loading.

The sleeves were needed to cover over 48M of pipeline, incorporated two cold field bends and connect on to the existing 18" nitrogen sleeve that ran under the old A737 road.

DNV GL sub-contracted Pipelines Maintenance Centre (Ambergate) to install the epoxy sleeves over two separate visits

during October & November 2017 with DNV GL coordinating activities on site and completing the QA.

A total of twenty-four main sleeves were installed and twenty-three over-sleeves over two phases.

Each phase was completed ahead of schedule.

DNV GL and PMC worked together to deliver a project ahead of schedule, under harsh weather conditions at times, much to SGN's approval.

Steve Hodge, Lead Project Manager from DNV GL says "At times, things seemed to be against us due to high winds stopping lifting operations, driving rain and shorter day light hours. Even one morning when we arrived on site, the complete excavation was filled with surface water up to the pipeline. It took two and a half hours to pump the water out but the PMC technicians and DNV GL staff worked extremely well together to overcome various environmental issues and keep the installation on target for completion."

Key personnel for the work included:

Anthony Wood – Head of Pipeline Repair & Intervention. Instrumental in winning the project.

Steve Hodge – Lead Project Manager. Co-ordinated project with client and sub-contractors. Lead site works and QA.

Andy Brealey & Stephanie Corless – Assisted in site deliverables, supervision and QA.

PMC

Nick Brown – Lead installation Tech

Alan Ablett – Installation Tech

Brian Leadbetter - Installation Tech

Brian Slaven - Installation Tech

Stuart McLaren - Installation Tech

