

## Hydrocarbon Gas - Metering Skid Line Repair

### Overview

A major Metering Skid Line, with 17 platforms feeding into the system, was found to have Corrosion Under Insulation (CUI), and the Remaining Wall Thickness (RWT) was below 50% of the maximum allowable working pressure.

With 17 platforms feeding into the system, shutting down this crucial line would not be an easy option. The alternative, of installing a composite repair to the 'live' system was viewed as best course of action for this maintenance requirement.

### Scope

The line was a 16 x 8" branch section. Due to Stress loadings (axial loads and bending moments), stress analysis was required in the XYZ axis of the 8" branch. A design analysis was completed with recommendation to install the Technowrap 2K™ system whilst the line was 'live'.

### Challenges

The remaining wall thickness of the line was measured and risk assessment completed, to assign which surface preparation the steel would take. In this specific case, SA2½ was carried out. Due to this particular repair, emphasis of stress analysis data was crucial to the repair design.

### Our Approach

A Walker Technical technician mobilised at short notice to begin the installation process and to provide total encapsulation of the line using the Techowrap 2K™ system. This design engineered repair extended the life time of this crucial line by a further 20 years. Post cure and barcol hardness checks were undertaken to ensure complete cure was achieved.

