

Technowrap™ Engineered Composite Repairs DRS Pipe Deck Repair

Date

July 2019

Client

Major Operator

Location

Central North Sea

Scope

The pipe deck on the client's asset had suffered extensive corrosion resulting in severe wall loss and through wall defects. This was the third phase of a 22 bay pipe deck repair. 7 bays measuring 3m x 6m required a repair solution totalling 126m². Multiple through-wall defects and low wall readings were found.

Solution

The bays were grit blasted to a SA2.5 surface profile. For any areas that were through-wall, 6 layers of our DRS Carbon Fibre solution was utilised. This consisted of a 2 layer composite plate - fully cured - bonded directly over the defects followed by a 4 layer wet lay up. For all non through-wall areas, 4 layers were applied. Fully engineered calculations produced by the ICR Technical team.

Results & Benefits

- The repairs were designed to seal all through wall defects as well as providing an engineered design lifetime of 20 years
- The DRS resins provide a rubberised molecule resin which absorbs and dissipates impacts from thoroughfare and use as a landing area
- An anti-slip coating was also applied over the completed pipe deck area. Long term corrosion protection
- No hot work required
- No heavy lifting or steel components

