

Technowrap™ Engineered Composite Repairs

Splashzone - 48" Caisson With Live Leaks

Date

2015

Client

Major Global Operator

Location

UK North Sea

Scope

A 48" discharge caisson had a large number of through-wall defects over a vertical length of 23 meters that required immediate attention. The scope of the work was to provide an engineered design, with 20 years repair lifetime. This required live leak sealing the numerous through-wall defects and applying both Technowrap™ 2K and Technowrap™ SRS over the defect areas.

Solution

The Technowrap™ 2K and Technowrap™ SRS repair using ICR's Splashzone™ resin system was installed live.

The combination of the two repair products was a requirement to withstand both the internal pressure plus the axial bending moment resulting from the wave loading. Having successfully overcome all challenges, ICR's composite engineering team was able to successfully complete the repair of length 23 meters on the 48" caisson. All 40 plus through-wall defects were successfully sealed and the structural integrity of the caisson was reinstated for an extended lifetime of 20 years.

Results & Benefits

- All 40 plus through-wall defects were successfully sealed and the structural integrity of the caisson was reinstated for an extended lifetime of 20 years
- Applying the repair live resulted in zero impact on production and operations to the client and providing an extremely cost effective solution

