CASE STUDY

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JOINT VENTURE

Live Leak Seal on a GRE Seawater Header Line

Overview

An offshore gas processing facility in Western Australia experienced localised internal erosion, resulting in a through-wall defect on the flanged interface of a GRE Seawater Header Line.

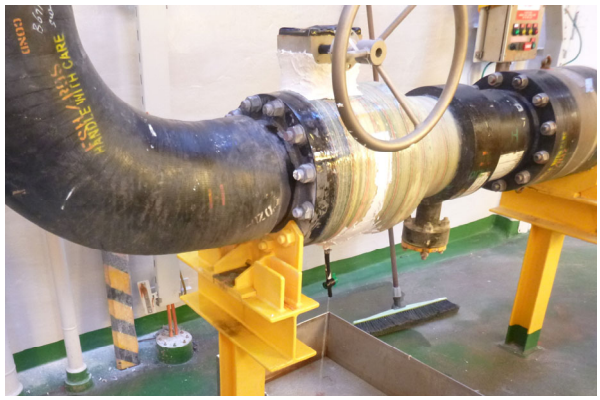
A live leak seal was installed with a flow diversion plate to ensure there was no loss of production through shutting down whist the engineered composite repair was applied.

Scope

The repair had the following specifications:

Design Pressure	600kPa
Diameter (NB)	250mm
Surface Preparation	ST3
Material of Line	GRE (Glass Reinforced Epoxy)
Design Temperature	80°C
Design Life	4 years
Defect Type	Hole
Defect Size	5mm Through Wall
Geometry	Valve and I-Beam
Crew Size	2
Consolidation Method	Stricture

Repair location



Leak diversion in place

Solution

- Technowrap™ 2K glass fibre was used which enables existing inspection systems to continue to being used
- Quick response with engineering completed and mobilization to site in a short timeframe
- Flow diversion used to ensure a dry surface throughout the duration of the repair

Benefits

- Shutdown not required maintaining production on the facility
- Valve handle remained operational
- Spool did not require replacement

Completed repair