

Closed Drain Line Repair Above Splash Zone

Overview

A closed drain system section within the splashzone area was identified as having suffered circumferential weld cracking, internal erosion and local wall thinning leading to a pinhole through-wall-defect. A temporary bandage repair had also been applied.

Scope

A Technowrap 2K™ repair would be installed repairing the defected area providing a design lifetime extension of 3 years. This 2K™ repair was also suitable for the assets design pressure of 11.34 Bar and design temperature of 38°C.

Challenges

Walker Technical now have Technowrap™ Splashzone for installing repairs within the Splashzone area, however within this case, prior to this product innovation, the standard Technowrap 2K™ was installed with the added challenge of keeping the composite clean and dry during application to ensure successful installation. Another challenge was getting access to the area where the repair required installation.

Our Approach

Using a custom built platform and habitat gave a degree of protection from the weather and from any stray waves rising higher than the platform floor. Rope access trained personnel applied the repair at height from a suspended platform at the required location.

This particular case demonstrates our ability to work effectively in conjunction with the operational requirements found within the offshore environment. Throughout the repair duration, the team co-ordinated installation with the platform control room and standby vessels. Due to the installation environment i.e. overside work, this had to be planned around helicopter schedules, supply boat operations, the weather, sea state, wind speed and visibility.

