

DiamondWrap® SubSea™ Riser Rehabilitation in Caribbean

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CARIBBEAN

Pipe Details

Customer: Buckeye Bahamas Hub

Location: Freeport, Bahamas

Pipe Diameter: 20", 24", 30", 36" and 42"

Operating Pressure: 200 psig

Design Pressure: 200 psig

Pipe Contents: Crude Oil

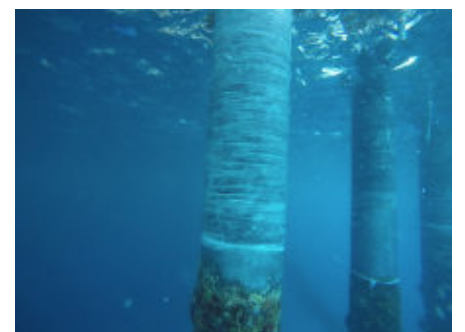
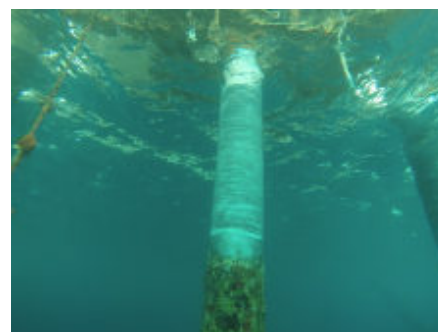
Pipe Defect: External Corrosion

Summary

These pipeline was part of an offshore tanker filling station. The piping was suffering from external corrosion at the water / air interface. Pipeline risers were at risk of structural failure and could have developed into catastrophic blowouts, and environmental hazards.

Citadel Technologies' team of engineers designed repairs for each riser according to ASME PCC-2 Article 4.1, and recommended a DiamondWrap® SubSea™ repair solution. 11 kits of DiamondWrap® SubSea™ were required to repair the defects, one kit on each corroded riser.

A team of trained and certified installers layered carbon fiber over the specified repair area, according to the calculations prepared by the Citadel Technologies engineer. No heavy equipment or hot work was required for the installation, and the line was in operation with no disruption in production. Below are photos of the completed repair:



The DiamondWrap® SubSea™ carbon fiber repair has enabled the pipeline to safely maintain full production. This saved the operator valuable pipeline operation time, while ensuring the integrity of the risers with a long-term design life.

There are nearly 3,000 trained Clock Spring installers around the world who are qualified to provide repairs with Clock Spring products. Clock Spring regularly offers [training classes](#) for installers and can custom design training for individual company needs.