

THERMO-WRAP™ CF

10" OD TEE REPAIR & REHABILITATION, MEXICO



Problem

This 10" OD tee petroleum line on an offshore oil platform in Mexico was experiencing severe pitting due to atmospheric conditions causing a 50% wall loss over a 2'6" (.8m) section.

Conditions

This line operates at 100 psi (6.8 bar) and 100°F (38°C).

Solution

The first step in the repair process was to complete surface preparation in accordance with SSPC-SP3 "Power Tool Cleaning" using an MBX Bristle Blaster. Next, the defects were coated using Syntho-Poxy™HC, a high compression strength liquid epoxy which provides a load transfer medium. Then Thermo-Poxy™ epoxy was applied over the entire repair area to provide corrosion protection to the bare steel, locking out any environmental atmospheric conditions while also acting as a primer for Thermo-Wrap™CF, a chemically resistant carbon fiber composite repair system which was developed for high temperature applications. Thermo-Wrap™CF carbon fiber composite wrap was applied at the calculated number of layers over the required repair length, fully restoring the integrity of the pipe. Lastly, Syntho-Glass®UV was applied to provide UV stabilization for the composite repair system.

Result

Thermo-WrapCF was installed by certified technicians and quickly restored the pipeline to its original design specifications in a matter of four hours, which saved time and other resources.



©Neptune Research Inc. (NRI) NRI® and Syntho-Glass®UV are registered trademarks while Syntho-Poxy™HC, Thermo-Poxy™ and Thermo-Wrap™CF are trademarks of NRI. Please contact your local NRI distributor or office for the most current product specifications. User shall determine suitability of product for use and assumes all risk. Project Date 0712 THWCF CS 1012

NRI
QUALITY. RELIABILITY. INTEGRITY.