DEEPWATER

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RETROLINKS™ INSTALLED ON BURIED UNDERWATER PIPELINE: GULF OF MEXICO

64 RetroLinks™ attached with 26 RetroClamps™

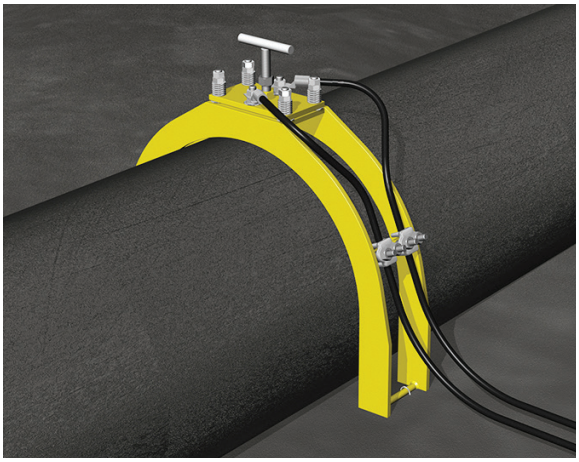
Deepwater was contracted to supply and oversee the installation of 64 RetroLinks™ attached via 26 RetroClamps™ on three pipelines in the Gulf of Mexico in order to increase pipeline CP measurements to acceptable levels.

The RetroClamps™ and RetroLinks™ were installed by a team of divers at pre-selected locations on the pipeline. The pipelines had concrete weight coating (CWC) and were buried approximately 5'-10' deep. The RetroLinks™ were deployed by crane over the side of the vessel and positioned on the seabed perpendicular to the pipeline.

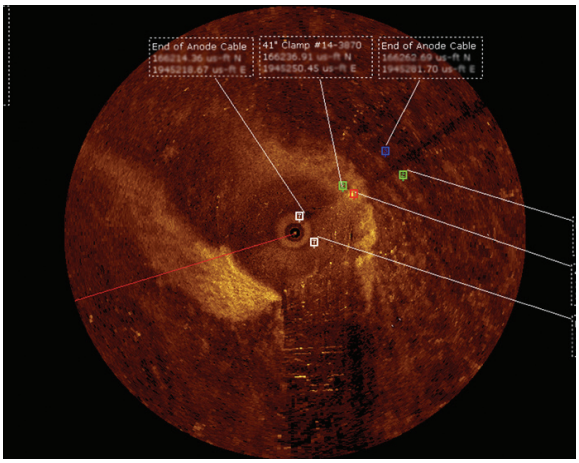
On two of the pipelines, the concrete weight coat was 4.5" – 5" thick, which was too thick for the clamp to penetrate to create an electrical connection. The client's representative approved using a 10K water blaster to create a 3"- deep hole in the coating and wire mesh to facilitate installation.

A Polatrak® CP Gun™ was used to take pre-and-post CP readings at all locations, showing the RetroLinks™ were electrically continuous with the pipelines and were providing proper cathodic protection in compliance with NACE standards.

More info at www.stoprust.com

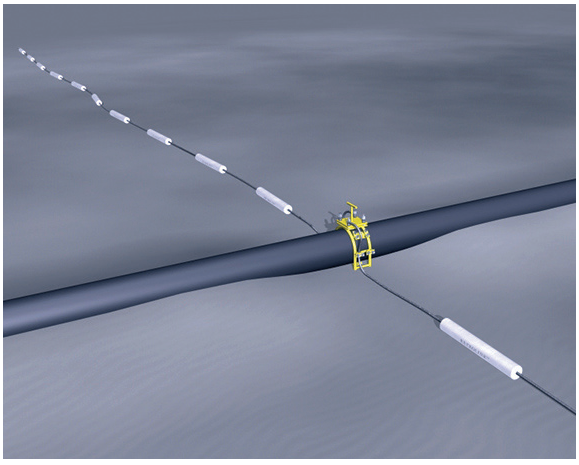


ELECTRICAL CONNECTIONS
The pipelines are electrically connected to the RetroLinks™ via RetroClamps™.



VIEW FROM ABOVE
The locations of some of the clamps and anodes as seen from above.

LOWERING THE LINKS
The RetroLinks™ are lowered via crane, where they will be attached to the pipelines by divers using RetroClamps™.



RETROLINK™ INSTALLATION
The anode strings are positioned parallel to the pipeline on the seabed.

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