

RETROLINKS™ INSTALLED ON PIPELINE IN SWAMP: GULF OF MEXICO COAST

RetroClamps[™] used to connect anode strings in shallow water.

Deepwater Corrosion Services was contracted by Boardwalk Pipeline to provide cathodic protection (CP) retrofit materials and installation supervision for their 12" pipeline Index 201 after finding low CP readings on the pipeline in 2 locations.

A CP survey was performed at the locations where a previous survey found low CP levels. The pre-retrofit CP readings from the two locations were found to be -0.607V and-0.660V vs Copper/CopperSulfate (CCS). Deepwater installed a total of 490 feet of RetroLink[™] anode strings in 2 locations on the pipeline where the low readings were found.

A Deepwater technician supervised a construction crew as they installed two RetroClamps[™] onto the 12" pipeline. The RetroClamps[™] were installed with the use of a Deepwater RetroReader[™], a piece of electronic CP monitoring equipment that provides a signal when the RetroClamp[™] has made electrical contact to the pipe and is permanently installed. Both RetroClamps[™] were installed onto the pipeline and anode grounding cables that were attached to the RetroClamp[™] were connected to the topside junction box.

Two zinc RetroLinks[™] were installed at each RetroClamp[™] location and laid out on the bottom of the swamp next to the pipeline. Two grounding cables connected to each RetroLink[™] were routed and connected into the topside junction box. The electrical grounding connection between the anodes and pipeline are made in the topside junction box so that off-potential (anode free) CP measurements can be taken on the pipeline. After the installation was complete, a CP survey at the junction box showed readings from the two locations were -0.973V and -0.860V vs Copper/CopperSulfate (CCS). Both RetroClamps[™] and all four RetroLinks[™] were installed in one day. The post-retrofit CP survey shows a negative polarization shift indicating the anodes are electrically grounded to the pipeline and are providing cathodic protection current.

More info at www.stoprust.com



INSTALLING THE RETROCLAMP™ A reach rod is used to tighten the clamp onto the pipeline once it's in place.



RETROLINKS™ AWAITING DEPLOYMENT They will be laid out on the swamp bottom next to the pipeline.



ALL IN A DAY'S WORK All RetroClamps™ and RetroLinks™ were installed in both locations in a single day



CP READINGS WILL BE TAKEN TOPSIDE Two grounding cables from each clamp are routed to a topside junction box.

an **ACTEON** company

Deepwater Corrosion Services Inc.

UK: +44 (0) 1483 600482 | USA: +1 (713) 983 7117 | Brazil: + 55 21 99110 2154 | Australia: +61 (0) 448 244 857 |sales@stoprust.com ©2022 Deepwater Corrosion Services Inc.