

Inside Out



Sensorlink



Case 1

MONITORING THE EFFECTIVENESS OF CORROSION INHIBITORS

A recent subsea Ultramonit™ installation included a 34-inch subsea Ultramonit™ clamp with 750 ultrasonic transducers. The system was installed approximately 10 kilometers downstream from the exporting platform to monitor the effectiveness of the corrosion inhibitor regime. The entire system was installed entirely by ROV, with no diving involved.

Case 2

MONITORING FOR QUALIFICATION OF RISER LINER

An Ultramonit™ system was installed on a subsea water injection riser carrying produced water. Because the produced water turned out to have a very aggressive corrosive effect on the riser, the riser was lined with a plastic material to hinder further corrosion. The Ultramonit™ tool was installed to provide the operator with on-line corrosion monitoring of the annulus between pipe and liner. The effectiveness and reliability of the new liner concept could in this way be verified.

Inside Out



Introducing the very latest technology for pipeline integrity management. The experience is like being able to turn a pipeline “Inside Out”. In other words, a complete overview of metal loss – be it caused by corrosion or erosion – is now possible even though it’s all happening inside the pipeline.

Pipeline integrity management

Industry-wide regulations stipulate that operators must comply with the increased demand for transportation of oil and gas in a safe and environmentally sound manner. As a result, pipeline operators are required to document that the integrity of their pipelines is constantly maintained. A corrosion monitoring system can play a vital role in a pipeline integrity management program by providing detailed and reliable information on pipeline status.

Sensorlink provides the ideal tool for corrosion monitoring and wall thickness measurements:

The Ultramonit™ system

The Ultramonit™ system effectively monitors internal corrosion and erosion rates by using ultrasound technology to provide highly accurate measurements. The system is a “clamp-on” tool, meaning that installation and utilization of the equipment does not interfere in any way with the operation of the pipeline. It is ideal for new and existing pipelines.

Application areas

The Ultramonit™ system can be used on any pipeline in which loss of wall thickness needs to be monitored, be it subsea, topside, onshore, in processing plants or in refineries. The Ultramonit™ system is excellent for

- Optimizing the use of corrosion inhibitors
- Providing valuable data for predicting the remaining lifetime of an asset
- Performing verification and calibration of inspection pig data
- Providing monitoring of critical areas between inspection surveys
- Corrosion and erosion monitoring of flowlines

Key advantages

- Non-intrusive, meaning no threat to the integrity of the pipeline
- Efficient installation without interfering with the pipeline operation
- The equipment can be moved between different pipeline locations
- Flexible as to number and placement of sensors
- Predicts wall thickness reduction rate with very high accuracy
- Provides immediate feedback on the effectiveness of corrosion inhibitors
- Operation on-line or remotely
- Delivers real time data
- Automated measurement, logging and analysis
- Data communication either wireless through water or via hard cable
- Flexible reading interval determined by operator
- Direct access to results provided from any PC

Inside out
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