inductosense

WAND Application **Example 01**

Customer: Gas plant operator

Industry: Gas processing

Structures: Absorption column

Operating temperature: 120°C (212°F)

Type of degradation: Sweet corrosion

Frequency of inspection: Once/month

Their challenges

The customer had a high volume of TMLs on the absorption column (with a high monitoring frequency), which needed managing cost-effectively. Expensive surface preparation was required prior to each manual UT campaign. Furthermore, wireless, fixed UT probes were considered too expensive to justify replacing all of the TMLs

Manual UT was traditionally being used to trend the internal corrosion of the column. Due to poor measurement repeatability, the data collected could not be used to accurately determine corrosion rate

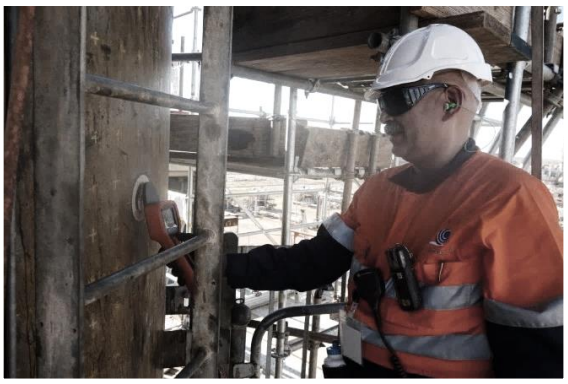
Our solution

A high volume of WAND sensors were installed across TMLs on the column, replacing single point manual UT. The data from the sensors was then acquired by onsite personnel every month using the WAND handheld data collector, without the need to prepare the surface each time

How did they benefit from the WAND?

- Within a matter of months, the customer started to see substantial direct cost savings. After the initial purchase and installation of the sensors, the ongoing costs of data acquisition were effectively zero using the WAND system
- Unlike with manual UT, the thickness data collected by the permanently installed WAND sensors could be used to accurately trend the internal corrosion rate

Sensors deployed across various TMLs on the column



Onsite personnel were able to easily acquire thickness readings, without needing to prepare the surface each time

Where do we work?

Refining

Pipelines

Onshore production

Offshore production

Chemicals

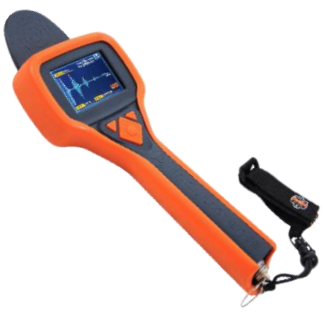
LNG

Mining

Nuclear

Renewables

Composites



Inductosense Ltd.
Unit 3, Kings Business Park,
Feeder Road, St Philips,
Bristol, BS2 0TZ
United Kingdom

T: +44 (0) 117 403 4047
E: info@inductosense.com
W: www.inductosense.com

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