

WAND Application Example 02

Customer: Refinery operator

Industry: Crude oil refining

Structures: Overhead systems in the distillation tower – pipe straight sections & elbows

Operating temperature: 100°C (212°F)

Type of degradation: Sweet corrosion & sour corrosion

Frequency of inspection: Once/month - Once/year

Their challenges



Scaffolding had to be set up each time a thickness measurement was required – this is a costly and time-consuming process



Insulation also had to be removed each time a thickness measurement was required. As well as being an expensive and laborious process, this was adding to their CUI risk by regularly exposing the pipe surfaces



Poor repeatability of the customer's manual UT thickness readings meant the data could not be used to accurately trend the corrosion rate

Our solution

The customer installed WAND sensors at TMLs underneath insulation, and at heights using the preinstalled scaffolding; data from the sensors was collected using the WAND handheld data collector. ECHO extension coils for accessing WAND sensors under insulation, and the REACH extendable pole was used for accessing WAND sensors at height

How did they benefit from the WAND?



Thanks to the WAND accessories: ECHO extension coils and the REACH extendable pole, the costs associated with removing/reapplying insulation and setting up scaffolding (for every thickness measurement) were eliminated



The permanently installed WAND sensors provided the customer with repeatable thickness measurements that enabled accurate trending of internal corrosion



Accessing measurement locations easily using the REACH400



Measurement locations underneath insulation, accessed using the ECHO45

Where do we work?



Onshore production



Refining



Pipelines



Offshore production



Chemicals



LNG



Nuclear



Mining



Renewables



Composites



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