

WAND Application Example 07

Customer: Oil and gas producer

Industry: Onshore oil refining and gas processing

Structures: Crude, gas, and condensate receivers

Operating temperature: Ambient

Type of degradation: CO₂ and Microbial corrosion

Frequency of inspection: Once/month

Their challenges



The data collected was being recorded manually. Human errors during this process meant that data was not always being recorded properly, often leading to mismatched and inconsistent measurements.



Manual ultrasonic testing (UT) was being used to trend the thickness loss. The poor measurement repeatability (i.e. being unable to precisely determine the direct thickness loss) meant that internal corrosion rate could not be accurately determined

Our solution

The customer installed WAND sensors at a number of thickness measurement locations that were determined from RBI (replacing single point manual UT). Data from the sensors was collected using the WAND handheld data collector, where it was logged digitally.

How did they benefit from the WAND?

- ✓ Using the WAND data collector, all of the customer's thickness readings were logged digitally, in one convenient place. This ensured they were able to keep track of their measurements
- ✓ Using the permanently installed WAND sensors, repeatable, high quality thickness measurements were acquired, enabling accurate internal corrosion rate trending



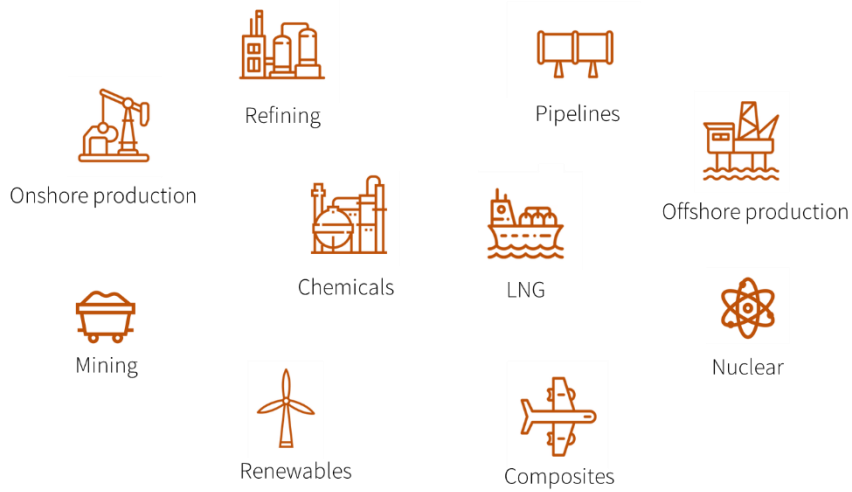


Thickness readings were collected and logged quickly and conveniently using the WAND data collector



Accurate internal corrosion rate trending capability using the permanently installed WAND sensors

Where do we work?



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