

WAND Application Example 05

Customer: Chemical manufacturer

Industry: Agrochemicals

Structures: Scrubber vessels, glycol vessels and water lines

Operating temperature: Ambient

Type of degradation: Aqueous corrosion

Frequency of inspection: Once/month – Once/year

Their challenges



Corrosion rate needed to be determined at various locations on a scrubber vessel. Manual UT was being used for this, however poor measurement repeatability, due to human-error, was making accurate trending of internal corrosion impossible



A number of thickness measurement locations were hard to access using a conventional UT probe, due to obstructions. This required time to prepare the measurement location and also presented a safety risk to personnel

Our solution

The customer replaced manual UT single point readings with WAND sensors at a number of thickness measurement locations along their water lines as well as scrubber and glycol vessels. Data from the sensors was collected using the WAND handheld data collector. ECHO extension coils were also used with WAND sensors for those locations that were obstructed

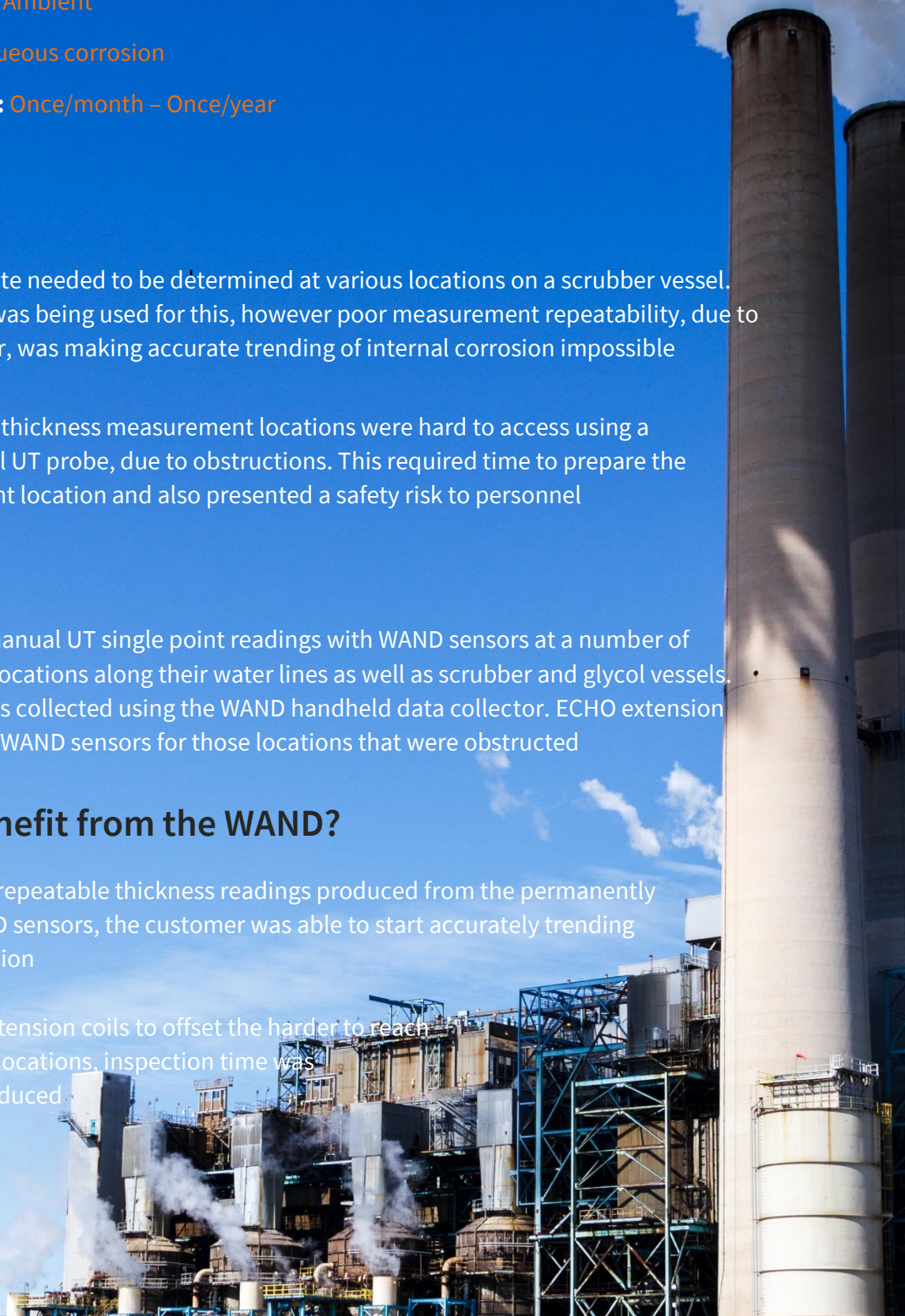
How did they benefit from the WAND?



Thanks to the repeatable thickness readings produced from the permanently installed WAND sensors, the customer was able to start accurately trending internal corrosion



Using ECHO extension coils to offset the harder to reach measurement locations, inspection time was significantly reduced.



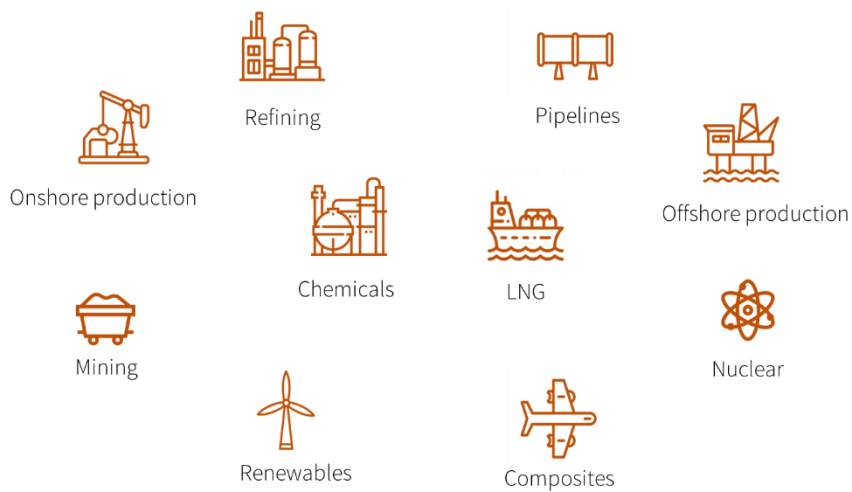


Thanks to ECHO extension coil, thickness measurement locations that were previously hard to reach could be accessed easily



Thickness readings could be taken free of human error using WAND

Where do we work?



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