

APPLICATION NOTE

October 2022



WAND Applications for Scrubber Vessels,
Glycol Vessels and Water Lines

Chemical Manufacturer

OVERVIEW

APPLICATION	WAND Sensors fitted along scrubber vessels, glycol vessels and water lines.
CLIENT	Chemical Manufacturer
ASSET	Scrubber vessels, Glycol vessels and water lines
TEMPERATURE	Ambient
DEGRADATION	Aqueous corrosion
INSPECTION FREQUENCY	Once / month - Once / year

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



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.

WAND-HDC



ECHO

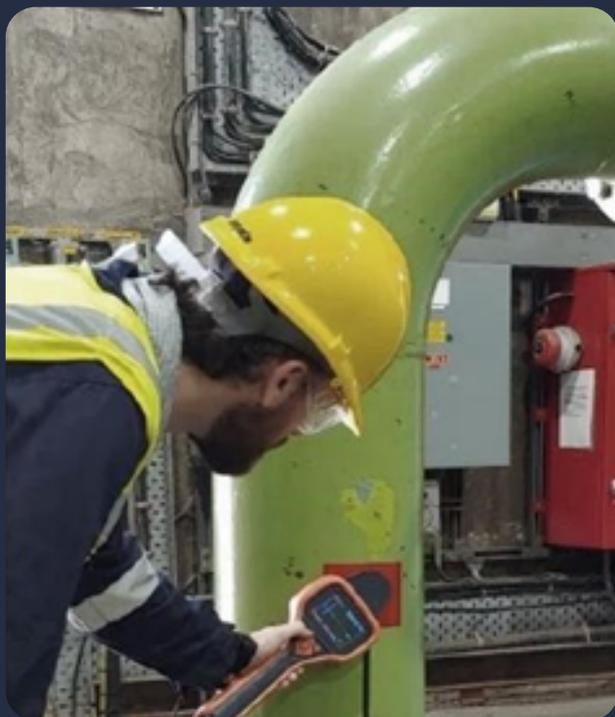


RESULTS

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 monitor, could now be accessed and measured easily.

Thickness readings could be taken from measurement locations that were previously hard human error using WAND to reach could be accessed easily

