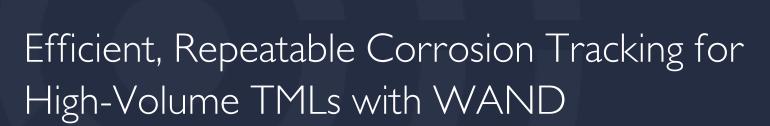


# APPLICATION NOTE

October 2022



Gas Plant Operator



### **OVERVIEW**

APPLICATION	High-volume monitoring of thickness monitoring locations (TMLs) using WAND Solutions
CLIENT	Gas plant operator
ASSET	Absorption column
TEMPERATURE	100°C (212°F)
DEGRADATION	Sweet corrosion
INSPECTION FREQUENCY	Once / month

# **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.





# 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.



### **RESULTS**

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.

