

# WAND Application Example 09

**Customer:** Natural gas transporter

**Industry:** Midstream

**Structures:** Pipelines

**Operating temperature:** Ambient

**Type of degradation:** Uniform & pitting corrosion

**Frequency of inspection:** Once/month – Once/5 years

## Their challenges



A significant portion of the customer's pipeline was unpiggable due to lack of launcher/receiver, or geometry constraints such as short radius bends. Permanently installed solutions were required in order to accurately and easily monitor these locations



Precise, repeatable permanently installed solutions were required in order to validate their inline pigging data at various locations along the pipeline. The sizing accuracy of the customer's pigging method was  $\pm 20\%$ , hence a permanently installed solution was required as a more accurate reference



Manual UT was previously being used in place permanently installed technologies for monitoring localized spots of pitting corrosion. Human error associated with manual UT was leading to inaccurate thickness data, making reliable internal corrosion trending impossible

## Our solution

WAND sensors were installed at a number of unpiggable locations along the customer's pipeline. In addition, WAND sensors were installed in 'ring configurations' at various locations as reference thickness values for their intelligent pig. Thickness data was collected easily and quickly by maintenance technicians using the WAND handheld data collector.

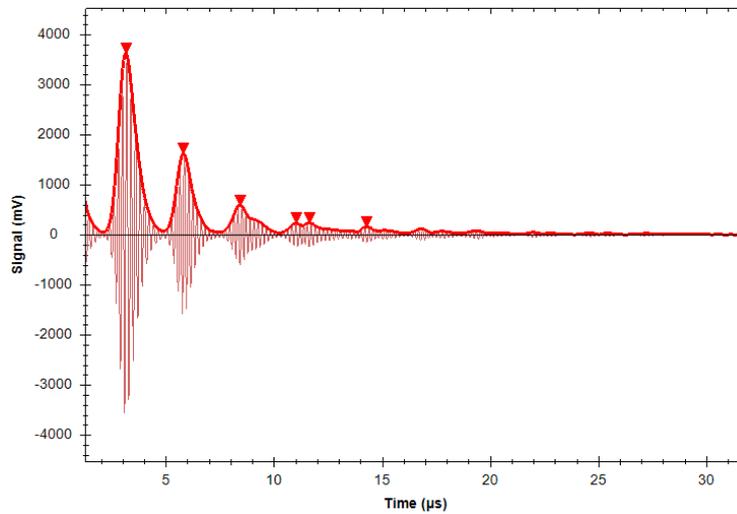
## How did they benefit from the WAND?



Human error associated with manual UT was eliminated using the WAND system, providing them with accurate, reliable thickness measurements that could be simultaneously used as reference data value for their inline inspection method

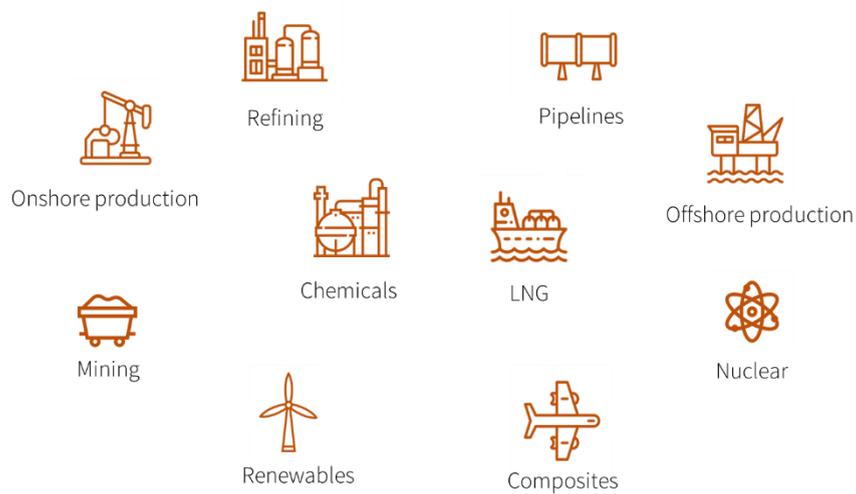


WAND sensors provided the customer with a means of cost-effectively, and frequently collecting accurate thickness measurements from locations along their pipeline that could not be accessed using their intelligent pig



Example A-scan from one of the WAND sensors installed on the customer's pipeline, as shown in Inductosense Data Management software

## Where do we work?



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