

# Solution to Interface Level Measurement Challenges



ABB LWT320 GWR resolves problematic interface level measurement with increased uptime.

Measurement made easy

## Introduction

A large manufacturing company has been a mainstay of the North American steel industry for more than 100 years. They produce some of the cleanest, most consistent light gauge steel in North America, offering a wide range of hot and cold rolled steel sheet and plate products.

A fully integrated steel producer with a raw steel production capacity of approximately 2.8 million tons per year, their size and diverse capabilities enable us to deliver responsive, customer driven product solutions straight from the ladle to direct applications in the automotive, construction, energy, defense and manufacturing sectors.

## Challenge

Reliable interface level measurement on critical oil tanks. Measurement of oil/water interface with a very low dielectric constant without stilling wells or external chambers. Containing any oil discharge is a #1 priority at this company which requires accurate and rapid measurement of any lubricating oil in the plant.

01 Initial LWT320 guided wave radar level measurement solution

## The Solution

Everest Automation located in Sault Ste Marie, Ontario was asked to provide a level solution for oil storage tank.

ABB was able to offer a trial LWT310 GWR vs the incumbent Magnetrol.

The LWT performed well, and the company ask for application assistance for a more difficult interface application on oil and water.

ABB proposed the LWT320 due to its larger signal strength on the very low dielectric oil. This company placed an order for 22 units.

## Conclusion

A smooth start up happened in co-operation with ABB's and Everest Automation's field service groups and all 22 transmitters were commissioned in three days.

The LWT's provide reliable and safe measurements preventing any discharge to the nearby river, which had occurred in the past.

Integration with local custom panels with measurements sent to the plant's DCS provide reliable and safe production without the possibility of a shut down in production.



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