

Guided Wave Radar Solves Level Measurement Problem in Distillation Column

RESULTS

- Proved to be a suitable solution for an application with foam and turbulence
- Successfully tested at customer facility before installation
- Provided reliable and accurate results since July 2002



APPLICATION

Distillation column level

Application Characteristics: mixture of methanol, water, ammonia and some minerals with the possibility of foam and bubbles

CUSTOMER

Sokolovska uhelna A.S.[®], Czech Republic

CHALLENGE

Sokolovska uhelna A.S. needed a reliable level measurement on their distillation column with methanol, water, and ammonia based liquid. This is an important yet difficult measurement since there is both foam and a bubbling surface. All equipment tried before had unsatisfactory results.

Due to past problems with previous techniques, the customer now required that all new equipment be tested before installation into the actual process. The Rosemount 3300 was challenged to a scenario of different tests including foaming and bubbling surfaces. The Rosemount 3300 with a coaxial probe was selected for the test as this type of probe eliminates disturbances, strengthens the signal in turbulent conditions, and mechanically avoids the foam.

They also tested a competitive GWR transmitter but it failed initial tests because of poor reliability. The transmitter lost the signal quite often and then stayed in an alarm mode until restarted.

SOLUTION

The Rosemount 3300 with the coaxial probe passed all the test and was installed in the actual application in July of 2002.

Sokolovska uhelna A.S. continues to be very satisfied with the reliability and accuracy of the methanol distillation columns level measurements.



Rosemount 3300 was successfully tested at customer test facility before installation into the process.

RESOURCES

Rosemount 3300

<http://www.emersonprocess.com/rosemount/products/level/m3300.html>



Rosemount 3300 reliably measures the level in a methanol distillation column.

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