

Frequent Maintenance Eliminated in Pulp and Paper Plant Using Non-Contacting Radar

RESULTS

- Reliable level measurement achieved
- Frequent maintenance eliminated
- Flushing no longer required



APPLICATION

Level measurement in a smelt equalizer tank

CUSTOMER

Nordic Paper, Bäckhammars Bruk paper mill, Sweden

CHALLENGE

Nordic Paper required accurate level measurement in their smelt dissolving tank. The tank contains a green liquor/smelt mixture, and the level in the tank needs to be maintained at all times so that the mixture can be kept at a certain density. Erratic levels cause erratic density measurements, which result in excess media and an increased risk of build-up. Build-up may also be caused by clogged bubble tubes.

If the density in the tank becomes too high it can cause the pipes to become encrusted, and may also cause steam explosions in the equalizer.

Nordic Paper had installed a high frequency radar unit but the device was sensitive to condensation and coating in the nozzle, which required regular flushing of water. This consequently created more condensation, resulting in the need to carry out frequent maintenance — almost every day.

In addition, Nordic Paper was concerned about potential risk to safety because the location is close to the smelt.

SOLUTION

Nordic removed their existing unreliable radar and replaced it with a Rosemount 5408 Non-Contacting Radar Level Transmitter with a process seal. The process seal was completely resistant to any coating and eliminated the need for flushing. The device has proved to be reliable, and constant maintenance is no longer required. The company is so happy with the result that they are planning to replace more of their existing radars with the Rosemount 5408.

The Rosemount™ 5408 Level Transmitter is resistant to coating, requires no flushing, and has considerably reduced the need for maintenance.



Rosemount 5408 with a process seal installed on the smelt tank.

RESOURCES

Rosemount 5408 Non-Contacting Radar Level Transmitter

[Emerson.com/Rosemount5408](https://emerson.com/Rosemount5408)

Emerson Automation Solutions Industries




[Emerson.com/PulpPaper](https://emerson.com/PulpPaper)

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