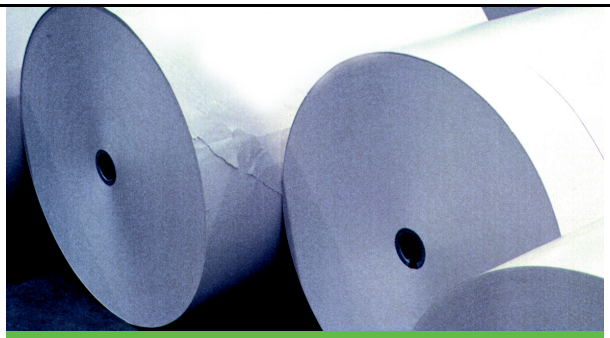
Boise-Cascade Reduces Excessive Process Variability with High Signal Magmeter Technology

RESULTS

- Reduced variability by 85% of original output
- Improved process control
- Improved paper quality



The High Signal Magmeter reduced process variability by 85%.

APPLICATION

Pressure screen rejects flow

CUSTOMER

Boise-Cascade De Ridder, LA

CHALLENGE

Boise-Cascade was experiencing variability in paper quality due to erratic pressure screen reject flows. In an attempt to reduce this variability, they minimized analog damping of the existing flowmeter. Due to instability in this measurement, they did not achieve the desired results. Based on these issues, the mill decided to test new magnetic flowmeters from multiple suppliers that would provide stable measurement with minimal damping. The results of this test would determine the plant standard for magmeter applications.

Rosemount 8712 High Signal™ with easy-to-use Local Operator Interface (LOI).

SOLUTION

After discussions with many different manufacturers, the mill chose two meters to test in the pressure screen reject flow application - a Dual-Frequency magnetic flowmeter from one manufacturer, and the Rosemount 8712/8707 High Signal Magnetic Flowmeter System.

To meet the desired result of improved process control, all Magmeters in this application were set with their lowest analogue damping. The results from testing showed the Rosemount 8712/8707 High Signal Magnetic Flowmeter outperformed the Dual-Frequency magmeter supplied by the other manufacturer, reducing the variability by 85% when compared to the original measurement.

The High Signal technology generates a magnetic field ten-times stronger than the Dual-Frequency meter from the other

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manufacturer, which proved to be a key difference in this difficult application. This stronger field delivered the results that Boise-Cascade needed to stabilize the flow measurement with minimal damping, allowing Boise-Cascade to improve process control and ultimately paper quality.

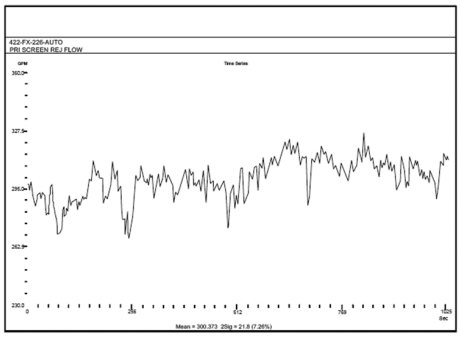

FIGURE 1. Past Magmeter Performance.

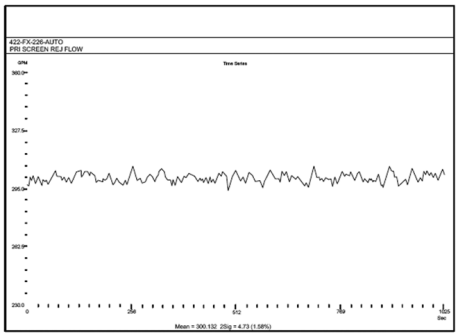

FIGURE 3. Rosemount High-Signal Magmeter System Performance.

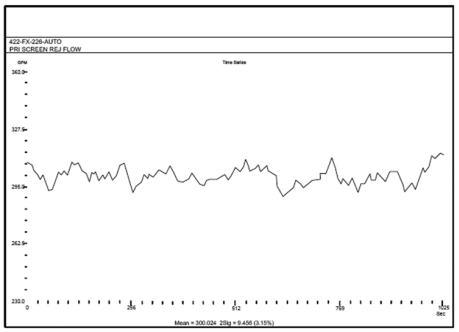

FIGURE 2. Competitor's Magmeter Performance.

Showing less variation than its leading competitors.

RESOURCES

Emerson Process Management Pulp & Paper Industry

http://www2.emersonprocess.com/en-US/plantweb/customerproven/Pages/PulpPaper.aspx

Rosemount High-Signal Magnetic Flowmeter System

http://www2.emersonprocess.com/en-US/brands/rosemount/Flow/Magnetic-Flowmeters/High-Signal-System/Pages/index.aspx

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