

## Wisconsin Paper Mill Prevented Costly Production Delay using Rosemount Compact Annubar Technology

### RESULTS

- Provided a more accurate, stable, reliable, and repeatable flow measurement
- Quick delivery and installation kept the project on schedule
- Avoided costly pipe modifications during installation

### APPLICATION

Measuring flow in a condensate line

### APPLICATION CHARACTERISTICS

4" line

### CUSTOMER

Major paper mill in the U. S.

### CHALLENGE

A paper mill located in Wisconsin wanted to improve the performance of a measurement point on a condensate line during a brief process shutdown. They needed a measurement solution that would be installed easily with minimal installation costs. Additionally, a solution was needed quickly, so the mill could stay on schedule - a prolonged shutdown would affect profitability.

The mill was experiencing measurement reliability problems with a different manufacturer's vortex and magnetic flow meters they have tried on this application, and were looking for new alternative. The mill wanted to pursue a DP Flow measurement option that didn't require an expensive installation with additional pipe penetrations or time-consuming impulse piping. They needed a solution that was easy to install and could be delivered on short notice that wouldn't result in the lost production.



*The Rosemount 3051SFC Compact Annubar Flowmeter was quickly installed without any additional pipe modifications.*



Figure 1: The Compact Annubar Flowmeter installed between two raised-face flanges.

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### SOLUTION

A Rosemount 3051SFC Compact Annubar flowmeter was ordered and delivered on time. The paper mill was able to install the Flowmeter between two standard raised face flanges on the process line with ease. The centering mechanism ensured proper alignment in the pipe and optimal accuracy. The integrated Flowmeter did not require impulse piping or extra welding which ensured that the installation could be completed during this short process shutdown.

This technology proved to be a more accurate, stable, reliable and repeatable flow measurement. The quick delivery of the Rosemount Compact Annubar Flowmeter prevented a costly production start-up delay. The flowmeter was quickly and easily installed, and it eliminated the additional labor costs associated with piping modifications or assembling impulse piping.

### RESOURCES

#### Emerson Process Management Pulp & Paper Industry

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

#### Rosemount Annubar® Flowmeter Series

<http://www2.emersonprocess.com/en-US/brands/rosemount/Flow/DP-Flow-Products/Annubar-Flowmeters/Pages/index.aspx>

#### Rosemount 3051S® Transmitter Series

<http://www2.emersonprocess.com/en-US/brands/rosemount/Pressure/Pressure-Transmitters/MultiVariable-Transmitters/3051S-MultiVariable/Pages/index.aspx>



Figure 2: No new piping modifications or welding was required in this quick installation.



Figure 3: The Rosemount 3051SFC Compact Annubar Flowmeter.

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