

Industry: Pulp and Paper

- High Consistency Flow

SONARtrac[®] SOLUTIONS

High Consistency Flow to Oxygen Delignification Process Tower

Benefits

- Accurate dosing of chemicals
- Accurate flow measurement immune to highly abrasive slurry
- Easy installation - < 2 hours
- No process interruption during installation
- Customer estimates they will save \$80,000 per year in maintenance and proper dosing of chemicals

“This application is extremely problematic for electromagnetic technology because of the high consistency, abrasive, fast flowing slurry”

Magmeter liners will typically last 5-9 months before being torn by the abrasive slurry

Sample Application Specifications

- 6” diameter SS schedule 40 pipe
- 15% consistency
- Nominal flow rate 1000 gpm
- Process temp 145F
- Horizontal installation site
- General purpose location
- Outdoor application



SONARtrac Value Proposition

The SONARtrac meter is extremely well suited for an abrasive, aggressive application such as those within this application. As well, the SONARtrac meter is totally non-intrusive and the meter’s sensing element never touches the slurry -- two elements that are critical for success on this application.

Maintenance can be done on the SONARtrac meter at any time; the mill does not need to wait until mill outage for installation or maintenance.

Also, there is a tremendous amount of chemical dosing that occurs based on the volumetric flow measurement in a line. In many instances, the existing magmeter is inaccurate, unreliable, or nonexistent. In these situations, chemical dosing occurs without any reliable measurement.

The SONARtrac meter is unaffected by the highly abrasive slurry; therefore, the quantifiable business results associated with this process are derived from reduction of maintenance costs, reduction of installation costs as well as the reduction of costs associated with improper dosing of chemicals.

SONARtrac meters will result in an annual savings of approximately of \$50,000 - \$90,000 per year.