

Industry: Pulp and Paper

- Boiler Scrubber Flow

SONARtrac[®] SOLUTIONS

Paper Companies Can Now Reliably Measure Boiler Scrubber Flow

Benefits

- Reduced maintenance on existing magmeters
- Eliminate boiler shut down due to meter failure
- Avoid EPA compliance issues and expense
- Easy installation/no process downtime.
- Estimated savings could reach \$50,000 per year.

Application

- Tree bark boiler scrubber flow

Area Classification

- General Purpose

Process Flow Being Measured

- Primarily water & ash combination
- 12" stainless steel schedule 40 pipe
- Nominal flow rate of 1500 gpm

Process Description

The boiler scrubber gas discharge is mixed with water for environmentally compliant disposal. This is a high value application because of the strict EPA compliance regulations governing the manner in which boiler scrubber discharge is managed. The measurement principle of the SONARtrac flowmeter is immune to a thin layer of build up on the inner wall of the process pipe. Thus the SONARtrac volumetric flowmeter is a terrific choice for this particular application.



SONARtrac Value Proposition

Typically, this application is extremely problematic for electromagnetic meters because of the ash-water, multi-phase slurry's affect on the electrodes. The issue - the electrode coating and a thin layer of scaling can create large measurement offsets and subsequently, a magmeter replacement every 12-18 months. The Department of Environmental Protection usually monitors this application quite closely. If the magmeter is off-line for more than 24 hours, the boiler is required to be shut down. The regular maintenance typically required with magmeters will not be required with the SONARtrac flowmeter, coupled with the elimination of potential EPA violations, creates a compelling quantifiable business results for the SONARtrac flowmeter. Estimated savings could reach \$50,000 per year.

“SONARtrac flowmeter will save us thousands of dollars on maintenance costs, as well as eliminate potential EPA compliance issues “