

Industry: Pulp and Paper

- Linerboard Machines – Air Control -- Engineering & Automation Create Tremendous Financial Gains

CiDRA[®]
Pulp & Paper Solutions
Application Note

SONARtrac[®] SOLUTIONS

Approach to air control can drive substantial board machine profit increases:

- \$600K/year Defoamer Savings
- Dewatering Variability Reduced

Current Brown Board Condition

It is common for linerboard manufacturers to have opportunities for optimization in their air control systems on the paper machines. More often than not, they are forced to waste defoamer/deaeration chemicals to insure against cosmetic foam upsets and lost uptime related to air driven drainage changes. Attempts at real time air monitoring and control were routinely met with accuracy and reliability challenges that made these control loops almost as inefficient as the existing uncontrolled systems. Correlations between air signal and drainage rates were so loose that managers were unable to link the two through real time data.

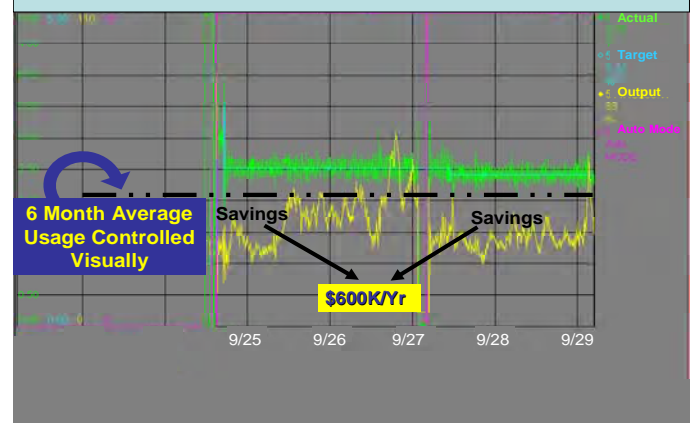
The introduction of the SONARtrac GVF combined flow and entrained air meter and the CiDRA Total Air Monitor (TAM) now enable the brown board market to generate real time air data. These CiDRA products now link air content to the runnability and cosmetic foam drivers of the papermaking process and drive cost out of the operation.

SONARtrac System Provides Control

A common example: A 2000+ ton/day kraft linerboard system used operator control to manage entrained air in the thin stock loop. Typical dosage averaged ~5 lbs/ton over the two plies.

The operating team installed SONARtrac clamp-on air meters on the thin stock systems. Within a few short hours of proving the signal reliability, the loops were controlled to pre-existing air and visual targets.

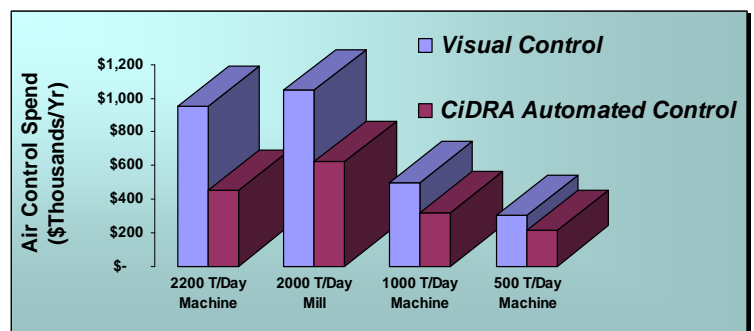
2000 T/Day Board Machine Air Control Example



The SONARtrac system provided management with a reliable air signal from which to control chemical addition.

Longer Term Financial Gains

Once the loops were controlled, operations began trialing various air targets against machine availability. As expected, tight control allowed them to raise air targets and maintain machine efficiency. Their results paralleled the typical CiDRA experience. Here are financial gains made by recent CiDRA partners:



Call CiDRA to learn more details about how we can make air control work to improve your financial performance.

SONARtrac Technology

CiDRA Chemical Management, Inc.
50 Barnes Park North
Wallingford, CT 06492
Tel. 203.265.0035
www.cidra.com