## **CASE HISTORY**

Packaging Paper & Board

# **SOLENIS**

## **RECORDED BENEFITS**

- Enhanced MB control throughout mill water and utility circuits
- Reduced IRB in mill water
- Improved workplace safety
- Improved surface condenser efficiency

## Enhanced Microbiological Program Reduces Slime and Improves Safety

**ClearPoint<sup>SM</sup> Biofilm Detection and Control Program** 

## **Customer Challenge**

An integrated packaging mill was experiencing microbiological (MB) control issues in its mill water circuit leading to its paper machines. The mill's existing ammonium sulfate-based biocide was insufficient to maintain slime free cooling for critical heat exchangers within the utility circuit. Solenis was chosen to improve general water treatment service and performance by providing a replacement MB control program.

### **Recommended Solution**

Solenis recommended that the mill replace its existing biocide program with ClearPoint<sup>SM</sup> biofilm detection and control program. Comprised of three components—an OnGuard<sup>™</sup> 3B analyzer, Biosperse<sup>™</sup> CX3195 chlorine stabilizer and Solenis' superior service—the program offers real-time biofouling measurements and automatically adjusts chemical feed to ensure effective, around-the-clock microbiological control.

#### **Results Achieved**

The mill achieved the following benefits with the ClearPoint program:

- Chlorine residual increased throughout the mill water circuit to the paper machines, reducing slime and improving thermal transfer
- The amount of iron reducing bacteria (IRB) in the mill water circuit was reduced, lowering iron to the PMs
- Supplemental biocide feed to the cooling towers was significantly reduced and MB control was improved
- Vapor decompressions in the CIO2 generation process were eliminated, improving safety in the bleaching process
- Surface condenser efficiency improved by increasing vacuum due to the removal of biofouling



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