CASE HISTORY

Pulp Mill



RECORDED BENEFITS

- Significantly reduced biofilm growth
- Eliminated manganese deposition
- Improved heat exchanger efficiency
- Reduced bleach consumption
- Reduced overall costs by \$187,000/year

Pulp Mill Significantly Reduces Biofilm Growth and Eliminates Manganese Deposition

ClearPoint[™] Biofilm Detection and Control Program

Customer Challenge

A fluff pulp mill was experiencing black supply water and manganese deposition in its machine chests, heat exchangers and pipes. High levels of microbiologically-induced corrosion (MIC) occurred in the heat exchangers and pipes due to uncontrolled biofilm, resulting in increased maintenance and asset replacement costs.

Recommended Solution

Solenis recommended that the mill replace it existing hypochlorite treatment program with ClearPointSM biofilm detection and control program. Comprised of three components—an OnGuard™ 3B analyzer, Biosperse™ 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

- Biosperse CX3195 specificity with microorganisms resulted in a significant reduction in Petrifilm* counts as well as a significant reduction in biofilm thickness and growth
- Bleach consumption was reduced by 18%
- Manganese deposition was eliminated in the chests, resulting in increased efficiencies across the mill's critical heat exchangers
- · Heat exchanger efficiency improved, reducing maintenance costs
- Overall operating costs were reduced by \$187,000/year



Reduced Manganese Deposition on Probe

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