

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

Biosperse™ CX3195 Chlorine Stabilizer

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 its existing hypochlorite treatment program with Biosperse™ CX3195 chlorine stabilizer as well as employ an OnGuard 3B analyzer to provide real-time, in-situ monitoring of organic fouling. This combination of chemistry and equipment ensures effective, around-the-clock microbiological control.

Results Achieved

- Biosperse CX3195 specificity with microorganisms resulted in significant reductions 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

Old Heater Target			New Heater Target	
Baselining on hypo 6 weeks at 40°C/104°F	Cleaning – start CX3195	CX3195 6 weeks at bulk temp. (25°C/77°F)	New Heater	CX3195 6 weeks at 40°C/104°F
				

Reduced Manganese Deposition on Probe

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