

# SCALE BLASTER™

THE WATER SOFTENER ALTERNATIVE

## APPLICATIONS

Pulp and Paper Manufacturing



# Pulp and Paper Manufacturing Applications

## Pulp

Lime scale deposits in grinding pumps and slurry lines; in caustic mixers and blending lines, pumps and controls will no longer be a problem. Also in mixing and fermentation tanks, lines, valves, and pumps. The **ScaleBlaster system** will also work in mother liquor lines, exchangers, valves, pumps and controls.

## Paper Stock

Lime scale deposits in roller dryers, blenders, compounders, pumps, transfer lines, air pollution control washers and steam feed systems to dryers will all be controlled by the **ScaleBlaster system**.

## Coaters

Lime scale deposit control on rollers from coating towers, spray headers, pumps, transfer lines, control valves, gauges, metering and chemical sewer controls will all take place under **ScaleBlaster's** chemical-free operation.

## Co-generation

Lime scale deposits in boilers, condensers, cooling towers, pumps, taps, feed controls, blow down treatment, and stack emission control equipment will be removed by the **ScaleBlaster system**.

## Paper Manufacturing Process

Paper manufacturing is usually a chemical process. Pulpwood, the main "ingredient" in the manufacturing of paper, is chopped into small particles and caustic soda is used to turn the pulp into cellulose polymer.

The cellulose is then pumped to tanks, where the fibrous material is fermented into an acceptable slurry of blending with any combination of plastic, minerals, cloth, etc., in order to achieve the desired consistency. The paper is then rolled, sheeted, dried, and coated for its intended use.

Throughout the process there are liquors, which are recycled; tanks that require cleaning, and deposits on equipment that include heat exchanges, coating mills, roller drum dryers, pumps, boilers and cooling towers. A huge amount of water is used in this process, and effluent control in paper mills is very costly.

The waste steam from various processes is often funneled to a co-generation plant, where it is used to generate electricity. Lime scale problems occur in these plants as well.

## Energy Savings

The cleanliness of the lines and equipment affects the pumping efficiency and therefore the total cost of the energy. Less energy used in the plant means more energy that can be sold for power.



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