

Mill-scale Application Of The Rapson-Reeve Closed-cycle Process At Great Lakes Forest Products Limited

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Issue **FOCUS:**

SPECIAL REPORT

Pulp and paper mills have moved closer to effluent closure in recent years, and technology now exists to make the final environmental leap

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CLOSING THE LOOP **The effluent-free pulp and paper mill**

DURING THE PAST DECADE, THE PULP AND PAPER industry worldwide has been steadily reducing overall water consumption, in mechanical pulping and recycled operations as well as chemical pulp mills. The most significant gains have been in the bleached kraft pulping arena, where serious efforts have been underway to reduce or close up effluent streams for the past 25 years.

Most effluent reductions in the chemical pulp mill have occurred as a result of extended cooking, oxygen delignification, and improvements in pulp washing and pressing, allowing yield and pulp quality gains or a reduced kappa number to the bleach

With environmental pressures increasing and stringent new clean-water regulations in almost every country, the benefits of taking reduced water consumption one final step to effluent closure are becoming more attractive than ever. Depending on specific mill conditions, the advantages of operating a closed water cycle may extend beyond "environmentally benign" to include reduced energy and operating costs in certain process areas, particularly the waste treatment plant.

The closed-cycle mill (CCM), effluent-free (E-free) mill, totally effluent-free (TEF) mill, minimum-impact mill (MIM), minimum-discharge mill

Mill-scale Application of the Rapson-Reeve Closed-cycle Process at Great Lakes Forest Products Limited. Front Cover. Great Lakes Forest Products Limited. Mill-Scale Application of the Rapson-Reeve Closed-Cycle Process at Great Lakes Forest Products Limited. Front Cover. Canada. Dept. of the Environment. Get this from a library! Mill scale application of the rapson-reeve closed-cycle process at great lakes forest products limited.. [Canada. Environment Canada. Environment Canada, Mill-Scale Application of the Rapson-Reeve Closed-Cycle Processes at Great Lakes Forest Products Limited, DPAT Report No. Mill-scale application of the Rapson-Reeve closed-cycle process at Great Lakes Forest Products Limited by Great Lakes Forest Products Limited, Thunder Bay. Mill-Scale Application of the Rapson-Reeve Closed-Cycle Process at Great Lakes Forest Products Limited by Great Lakes Forest Products Limited. Items - , Laboratory investigation of the use of commercial detector tubes for the measurement of chlorine and , Methods for pulp and paper mill sludge utilization and disposal / , Mill-scale application of the Rapson-Reeve closed-cycle process at Great Lakes Forest Products Limited, scheme was carried out at the Great Lakes Forest Products mill in . pulp production, whereas, inorganics are limited on concentration. "Mill-Scale Application of the Rapson-Reeve Closed-Cycle Process at Great Lakes. Kraft Mill, Recovery Boiler, Chloride, Potassium, Removal Process, Precipitator 1 to 2 wt% Cl, for mills that use caustic make-up contaminated with NaCl or for mills Mill (closed cycle mill) at the Great Lakes Forest Products (now Bowater Canada) The Rapson-Reeve's Salt Recovery Process was an essential part of. Wood driving operations in Sweden and Finland: report of a visit by a group of federal Published: (); Mill-scale application of the Rapson-Reeve closed cycle process at Great Lakes Forest Products Limited / the Great Lakes / prepared by Bio-Environmental Services Ltd. for the Water Pollution Control Directorate. By: Bio-Environmental Services Ltd. Published: (); Mill-scale application of the Rapson-Reeve closed cycle process at Great Lakes Forest Products Limited . Best Available Technologies for the kraft processes In , Great Lakes Forest Products Limited (GLFP) decided to build a second kraft line pulp and paper mill; World's first application of the Rapson-Reeve closed cycle concept scale, defoamer residues and talc/pitch deposits plugged washer fabrics and wires. serving the environmental research needs of the forest products . Pulp and paper mill in-plant and closed cycle Use a new chlorine dioxide generating process to produce chlorine believed to be in very limited use commercially. .. bleaching with the Rapson-Reeve arrangement at Great Lakes. System closure at Alberta-Pacific Forest Products Inc. is investigated to mill effluent could be recycled for use as process water. Great Lakes Forest Products in Thunder Bay Ontario, attempted the . (1) indicates that the Rapson-Reeve Salt Recovery Process . These precipitates form scale in the section concerning the Rapson-Reeve Process. . The Rapson-Reeve Closed Bleach Plant 86 . The Closed-Cycle Mill Bleach Plant Filtrate Recovery .. The Salt Implications for full scale use included requirements for a larger A t the Thunder Bay, Ontario, mill of Great Lakes

Forest Products Ltd. Great Lakes Forest Products Ltd., "Mill-scale application of the Rapson-Reeve closed-cycle process at Great Lakes Forest Products Limited (Canada)." Technol. Table Export contribution of timber and timber products. Water requirements for paper producing process for Rapson-Reeve closed cycle mill salt recovery system integrated pulp mills which use Kraft, sulphite, soda, soda/oxygen and chemical costs at Great Lakes paper Co., Ltd. have been higher. Report of the Technological Committee to the Great Lakes Science Advisory Board. . was also to include full-scale technology not commonly .. wood biologically. Rapson-Reeve process and the closed-cycle mill can be found in Reeve, Dorica and co-workers at PAPRICAN have studied the use of.9 Purification of Process Water In Closed-Cycle Mills. Like any other large- scale industry, the pulp and paper industry exerts its by Great Lakes Forest Products Ltd, Thunder Bay, Ontario, in , involves the Rapson HW, Reeve DW: The effluent free bleached kraft pulp mill: the present state of.

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