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PROJECT DESCRIPTION

Turpentine Recovery System (TRS)
SMURFIT STONE
La Tuque, QC

PROJECT SCOPE

The project consisted in collection, transport and condensation of turpentine vapor of the pulp mill, to optimize the turpentine recovery and sales revenues.

Mesar / Environair was mandated to provide engineering and supply of the new turpentine system at the Smurfit mill of La Tuque, QC.

At La Tuque mill, the turpentine sources to be collected were :

- Kamyr #1 steaming vessel (softwood) vent
- 19 batch digester relief valves
- blow heat recovery system secondary condenser vent

The turpentine sources were then collected and safely transported under pressure, and sent to the new turpentine recovery system which consist in two shell and tube condensers in series with proper control.

Other key equipment like cyclone fiber separator, relief valve, flame arrester and rupture disk were supplied to insure a safe system design.

RESULTS

The system was installed in April 2000 as scheduled. Performance trials in summer 2000 showed that the Terpentine Recovery System consistently operates, and the mill has doubled its turpentine production. Since the start-up, the turpentine recovery system runs flawlessly.