

## **PROJECT DESCRIPTION**

### **Blow Heat Recovery System (BHRS) Upgrade SMURFIT STONE La Tuque, QC**

#### PROJECT SCOPE

The project consisted in blow heat recovery system upgrade of the pulp mill to avoid high or low pressure trip of blow tank.

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

At La Tuque mill, the steam sources going to be BHRS were :

- blow steam from 19batch digesters
- blow steam from 3 Kamyrr steaming vessel and flash tank of 3 Kamyrr



The steam sources were then transferred from three blow tanks to two indirect shell and tube condensers in series to produce hot water for the pulp mill. The condensers' piping was modified to operate them in parallel in order to increase the system turn down ratio.

Other key instrument like control valve, pressure transmitter and magnetic flowmeter were supplied to insure a safe and reliable control system.

#### RESULTS

The system was installed in January 2000 as scheduled. Performance trials in February 2000 showed that the BHRS turndown allows the operators to perform up to three blows at the same time without high/low pressure trip of the blow tank.