

PROJECT DESCRIPTION

Diluted Non Condensable Gas (DNCG) System CASCADES FJORDCELL Jonquière, QC

PROJECT SCOPE

The project consisted in collection, transport and treatment of diluted NCG of the pulp mill, to comply with Total Reduced Sulfide (TRS) regulation in Canada.

Mesar / Environair was mandated to provide engineering and supply of the new DNCG system at the Fjordcell mill of Jonquière, QC.

At Jonquière mill, the DNCG Sources to be collected were :

- brown stock washer hood and filtrate tank vent
- knotter hood
- ash mixing tank vent
- foam tank vent



The DNCG sources were then collected and safely transported via an exhaust fan, and mixed with sprayed chlorine dioxide solution for TRS chemical oxidation. The gas is further passed through an alkaline scrubber to remove any excess ClO_2 .

Other key equipment like mist eliminator, fiber filter and recirculation system were supplied to insure a safe system design.

RESULTS

The system was installed in December 2003 as scheduled. Performance trials in winter 2003 showed that the DNCG system and scrubber consistently operate, and the mill is then in compliance with provincial regulation with an up-time higher than 99%. Since the start-up, both DNCG system and alkaline scrubber run flawlessly.