

PROJECT DESCRIPTION

Diluted Non Condensable Gas (DNCG) System NEXFOR FRASER PAPER Thurso, QC

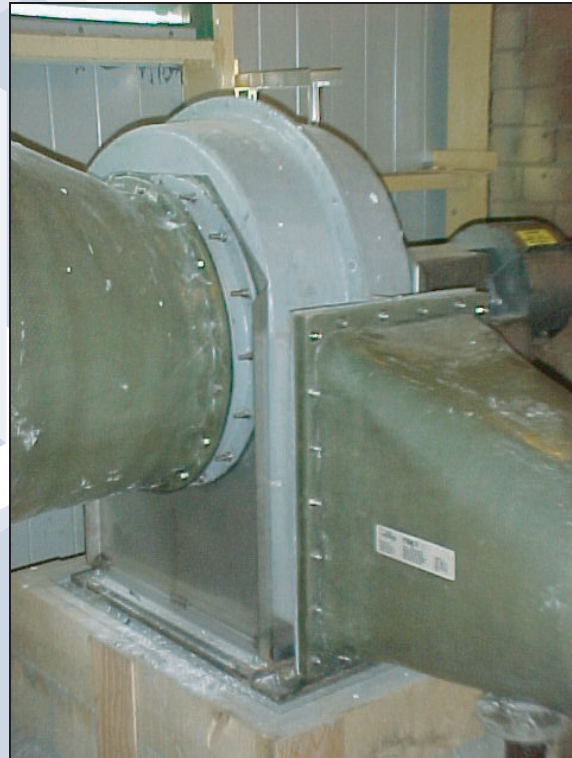
PROJECT SCOPE

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 Nexfor mill of Thurso, QC.

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

- brown stock washer filtrate tank vent
- knotter hood
- foam tank vent



The DNCG sources were then collected and safely transported via an exhaust fan, and mixed with the bleach plant exhaust vent for chemical oxidation using residual chlorine dioxide (primary) or with a sprayed ClO₂ solution (backup).

Other key equipment like relief valve, foam detector system, new knotter hood were supplied to insure a safe system design.

RESULTS

The system was installed in November 2002 as scheduled. Performance trials in December 2002 showed that the DNCG system and backup 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 backup run flawlessly.