

## **PROJECT DESCRIPTION**

### **Concentrated Non Condensable Gas (CNCG) System MENASHA CORPORATION Otsego, MI**

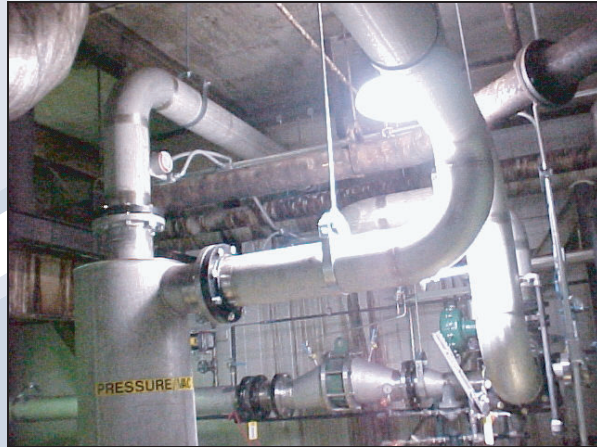
#### PROJECT SCOPE

The project consisted in collection, transport and incineration of concentrated NCG of the pulp mill, to comply with MACT I phase I (Cluster Rules) of EPA in USA.

Mesar / Environair was mandated to provide engineering and supply of the new NCG system at the MC mill of Otsego, MI.

At Otsego mill, the CNCG Sources to be collected were :

- Pandia relief vent
- blow heat recovery condenser vent
- evaporator vents



The CNCG sources were then collected and safely transported via a steam ejector, and sent to the Heat Recovery Steam Generator (HRSG) #1 or #2 (primary) and package boiler (backup) for incineration.

Other key equipment like NCG injection nozzle, water seal, relief valve, flame arrester and rupture disk were supplied to insure a safe system design.

#### RESULTS

The system was installed in February 2001 as scheduled. Performance trials in March 2001 showed that the CNCG system consistently operates, and the mill is then in compliance with Federal regulation with an up-time higher than 99%.

Since the start-up, the CNCG system runs flawlessly.