

PROJECT DESCRIPTION

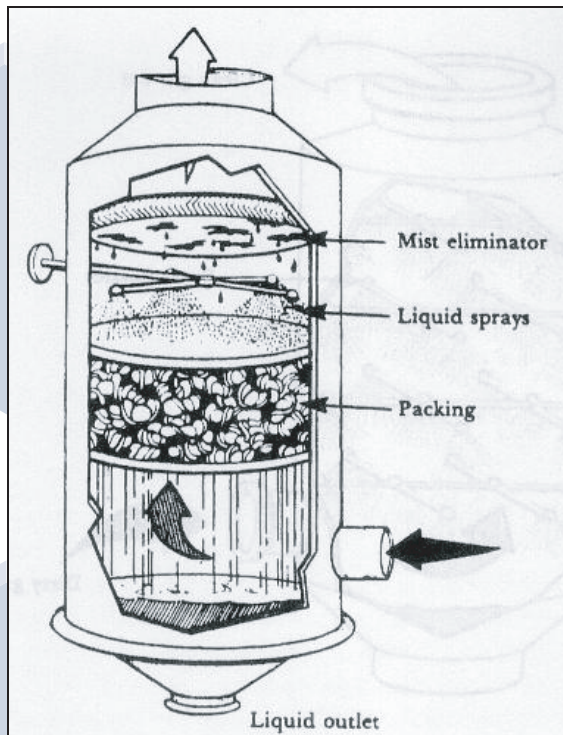
Phenols and Formaldehydes Abatement System **RÉSINES NESTÉ** *Ste-Thérèse, QC*

PROJECT SCOPE

The project consisted in treatment of exhaust gas emissions coming from a resin plant to comply with provincial regulation on atmosphere quality.

Mesar / Environair was mandated to provide supply and engineering of a scrubbing system to the Nesté plant at Ste-Thérèse in Québec.

At Ste-Thérèse plant, the waste stream to be treated comes from a synthetic resin reactor. The major gaseous contaminants were the phenol and formaldehyde.



The treatment system consists in a packed tower scrubber for contaminant absorption, with recirculation and neutralization with caustic make-up.

Other equipment like recirculation pump, metering pump, mist eliminator and fan were supplied to insure a safe system design.

RESULTS

The system was installed in October 1995 as scheduled. Performance trials in the following months showed that the scrubbing system consistently operates, and the plant was then in compliance with provincial regulations.

The system efficiencies were 99% on phenol and formaldehydes, and the system turndown allow the plant to work with a wide range of different operating conditions.