

## RELIABILITY OF HYDROGEN SULPHIDE GAS ALARMS

### SUMMARY

Six types of fixed hydrogen sulphide monitors were tested in the laboratory to evaluate their effectiveness in warning employees of dangerously high gas concentrations.

A survey of British Columbia pulp and paper mills showed that 16 mills have hydrogen sulphide monitors. Twelve mills have monitors of the types tested in this study. Five mills do not have fixed hydrogen sulphide alarm systems.

The hydrogen sulphide monitors evaluated were from:

- ° General Monitors
- ° Armstrong
- ° Delphian
- ° Rexnord
- ° Bacharach
- ° International Sensor Technology

All of these monitors have solid-state sensors. A Sieger H<sub>2</sub>S monitor with an electrochemical sensor was also tested to determine differences in responses for the two types of sensors. General Monitors and Delphian monitors installed at a Lower Mainland pulp mill were also tested at the mill site.