



## Case Story: Skärblacka Paper Plant

### Automatic Alarm Dispatch to Radio Hand Sets



#### Paper Mill Alarm Handling

**Billerud** is a large Swedish paper production company. The company produces advanced paper based packaging material, and has an annual turnover of 900 million EUR, an annual capacity of 1.4 million tons and employs 2,300 people in ten different countries.

Skärblacka, a Billerud mill, is one of Sweden's largest ever industrial investments, and one of the most advanced plants, with up-to-date environmental, economical and social precautions.

Therefore it was only a natural decision that Skärblacka wanted to modernize their safety and radio systems. The paper plant had an analogue radio communication system, but Skärblacka was inter-

***"We needed a modern communication system and were overwhelmed by the value added by choosing TETRA. The rise in efficiency achieved by receiving technical alarms as radio text messages is significant"***

*Jari Delin, Automation specialist*



#### The TETRA Possibilities

The large Skärblacka plant was especially interested in the ZONITH Alarm Control System that collects critical alarms, offer protection to employees and create easy access to information, no matter where the employees are located. ZONITH Alarm Control System ensures that alarms are automatically distributed to the right person at the right time. This automated system saves important

##### Core Features

- ▶ Alerts are sent by text messages directly to the relevant employees on their Sepura TETRA radios in order to ensure fast and effective problem solving.
- ▶ Receiving alerts from remotely located technical installations.
- ▶ Integrating radios in the IP based telephone system, allowing voice calls from regular telephones to the TETRA radios and vice versa.
- ▶ Protection of the employees by offering a Lone Worker protection system.



## The solution

Skärblacka paper plant replaced the existing analogue radio system with the eXTRAS TETRA based radio system provided by Frequentis.

The ZONITH Alarm Control System was easily installed, and is now dispatching technical alarms to plant personnel. A selection from +40,000 alarms is collected using the widely known process control communication standard OPC.

To cover the enormous production area, five of Zonith's Remote Telemetry and Control Units were used. They were installed at critical remote technical installations. Each telemetry unit can handle 12 separate alarms, and an attached Sepura radio transmits the alarms to the ZONITH Alarm Control System via a TETRA network. This provides a secure and reliable infrastructure with no costly cable installations.

## In short

### Needs

Billerud Skärblacka paper plant needed an efficient and reliable radio communication system and selected TETRA. Among other functions the system must automatically notify of technical alerts.

### Solution

ZONITH Alarm Control System is integrated in the production system and notifies the employees on their TETRA radios when technical alarms are raised. Integration is achieved using the OPC automation standard and Zonith's Remote Telemetry and Control Units.

### Benefits

- ▶ Automated alarm control
- ▶ Secure and reliable communication
- ▶ Standard Software Package
- ▶ Lone-Worker protection

