

Is the fire and explosion protection in your factory still up to date?

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Abstract

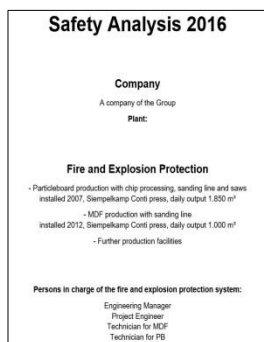
Production plants for wood based panels have not only become larger, but also more complex. Furthermore, the material used, the production speed and the number of employees have strongly changed. All this leads to an increase in the output of the plants as well as to an increase in the risk of fire and explosion.

This lecture follows the entire process using the example of a particleboard production plant and shows the risks of fire and explosion that have partly not been known so far. At the end, you will see a concept (not project-related) that represents the state of the art from a today's point of view.

A unique aspect of this lecture is the simultaneous reflection on fire and explosion protection. Look forward to a lecture that traces the material flow from this perspective. Wet chip and dry chip processing, drying, screening as well as complete forming up to the sanding of the finished wood based panels are looked at.

How can you as an operator benefit from our experiences? This is very simple: our experts will be

pleased to visit your factory. They will trace the material flow of your production line from the beginning to the end together with your experts and work out a current flowsheet including the existing fire and explosion protection equipment and its condition in cooperation with you.

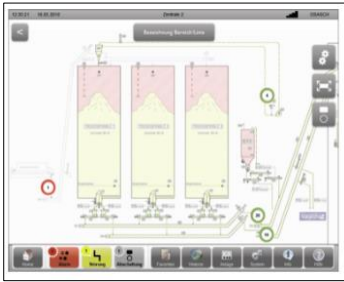


Example 1 - Safety Analysis

Afterwards, it is analysed whether your plant corresponds to state of the art regarding fire and explosion protection or whether adjustments or modernisations are necessary.



Example 2 - Safety Analysis



Example 3 - Safety Analysis

This is, of course, done considering the latest technical methods of fire and explosion protection that allow, for example, the simultaneous analysis or visualisation of entire plant areas. Even the transfer of important information to higher-ranking control systems or defined groups of people is nowadays easily possible “in real time”.

The safety analysis is a trio of:

1. preparation
2. visit to your factory
3. production of a written report including the belonging flowsheets in which the protection equipment is marked and an analysis of possible improvements in fire and explosion protection

2 Summary

After the Safety Analysis of the spark detection and extinguishment system, it is compared with the current best available practices (Best Practice) and identified improvements specified.

3 Procedures

3.1 Preparation

The preparation of the system analysis starts with the collection of all relevant information, including maintenance and repair reports of the previous years, the original installation certificate, the flowsheet of the plants along with corresponding documentation describing the existing system(s).

After verification that the available system documentation is complete, the installed system is compared to state-of-the-art protection requirements on the basis of checklists from, for example, the insurance industry.

The recommendations for improvements are then incorporated into the existing flowsheet(s) and discussed with the customer during a follow-up on-site visit.

Example 4 - Safety Analysis

Look forward to an exciting lecture and allow us to present further details to you at the symposium.