8-9 November 2011

UNECE - BMU - UBA

Is a repetition of the Sandoz accident impossible in Germany?

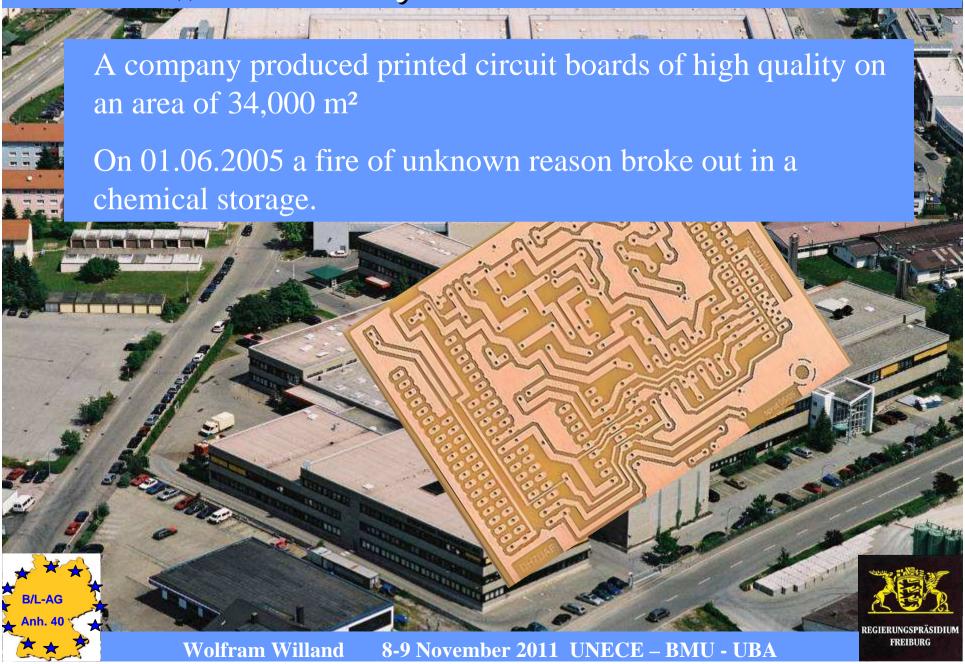
Wolfram Willand

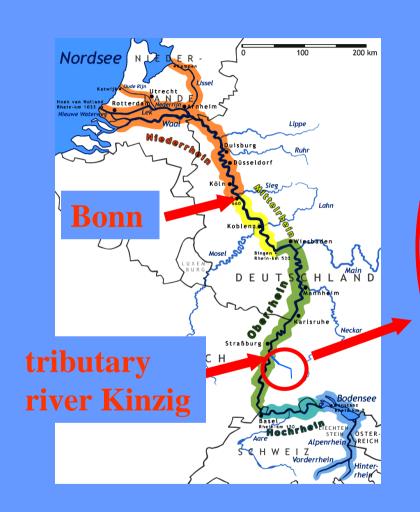
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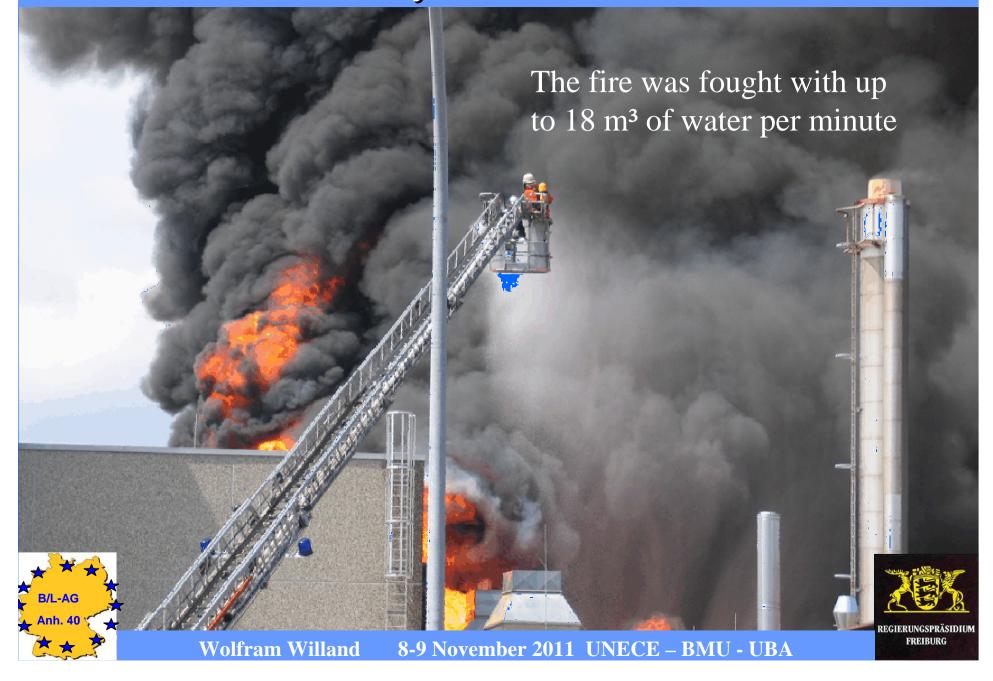




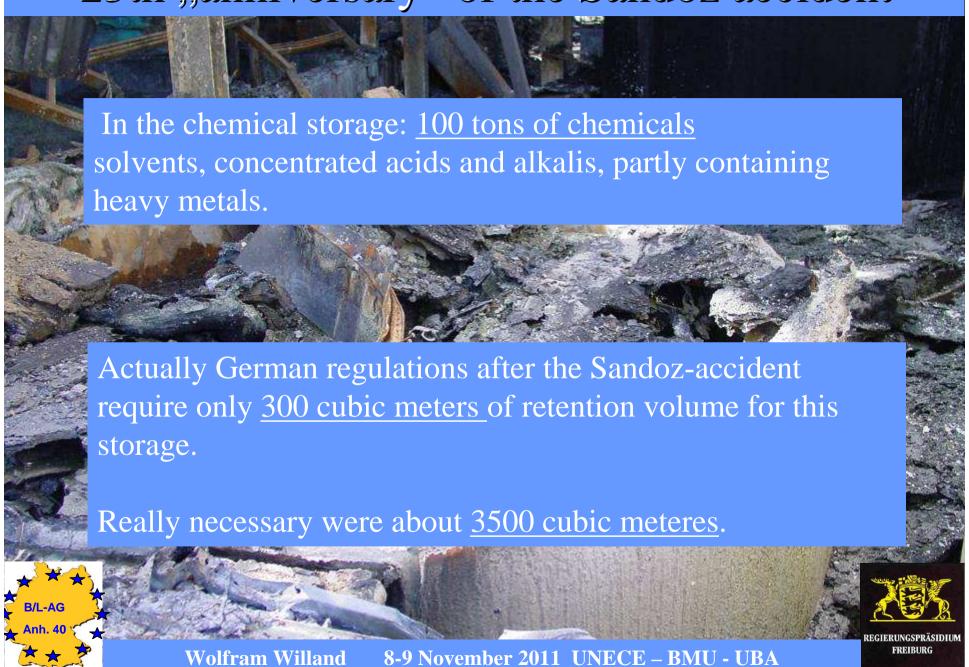


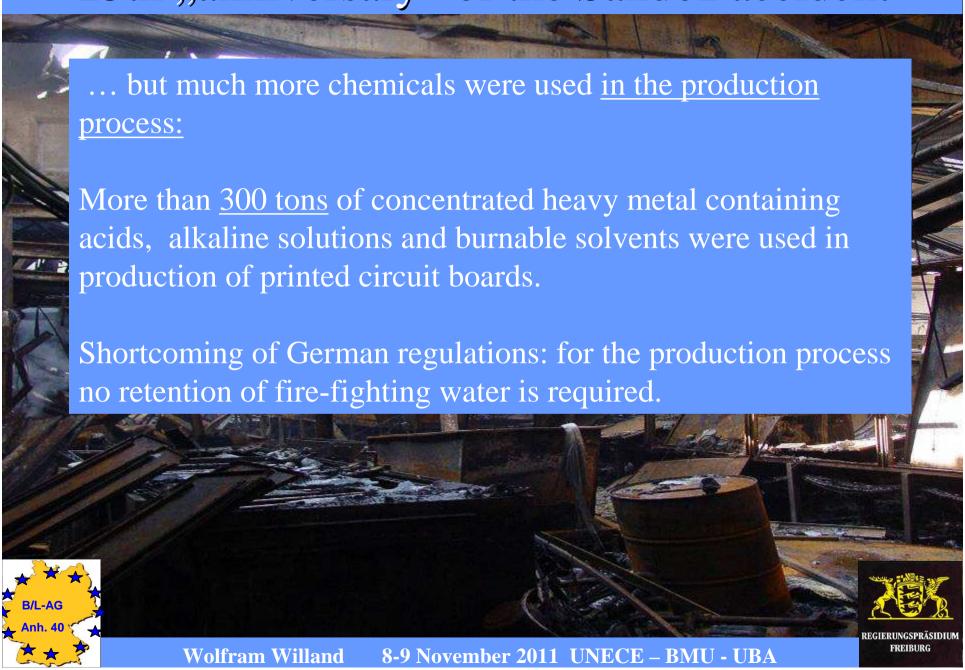


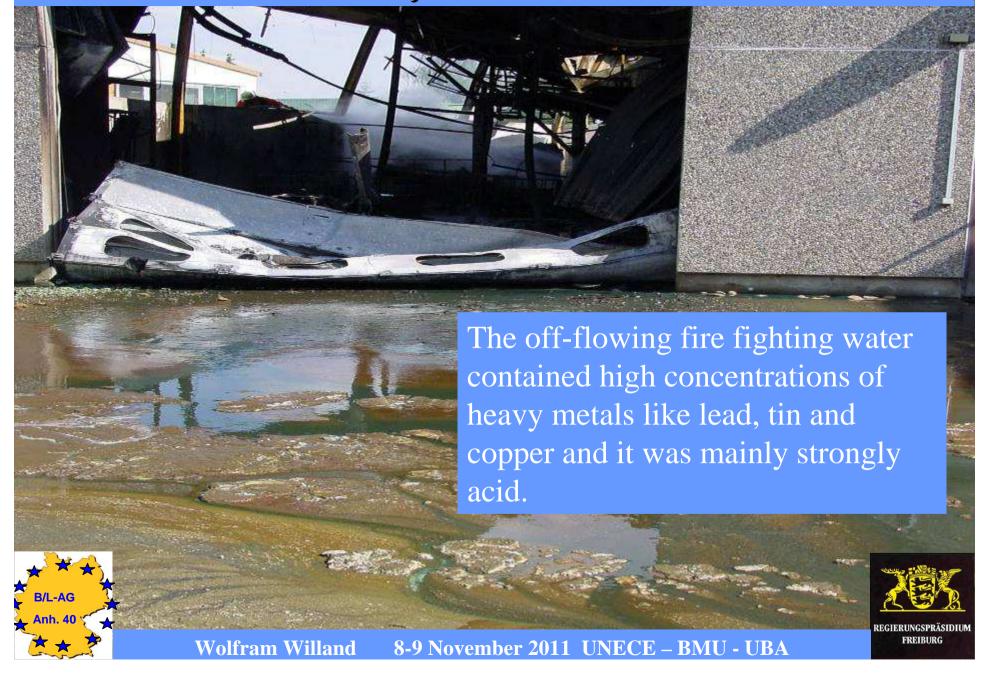












The sewage treatment plant of Schramberg fought in vain with 250 sacks of lime against the inflowing acid.





The whole biology was killed. The further discharge of fire fighting water to the treatmentplant and thus to the rivers Kinzig/Rhine had to be stopped immediately.



In sum 950 m³ of higly contaminated firefighting water were retained in the plant and disposed of in whole Germany with highly specialized tankers under critical conditions (fire water developed poisonous gases – normal steel tanks were quickly etched through by it).

Another 1,200 m³ were retained in a municipal rain retention basin and later disposed of with conventional tankers.





- most pressing problem: all retention basins were filled to the brim and heavy rain was announced
- <u>risk of drainage of 400 tons of chemicals into the river</u> <u>Kinzig and Rhine</u> (compare Sandoz: 10-30 tons)
- disposed firefighting water: 2100 m³
- 70 special tanker trucks drove up to 500 km to find a suitable fire-fighting water treatment plant
- amount of damage in sum: 142 million €
- <u>order to dispose fire water immediately: 1 million €</u>

Conclusions - What can we learn?

- Sandoz II could be still possible in Germany.
- The regulations introduced in Germany after the Sandoz accident brought improvements, but still offer only limited protection.
- Fire water retention demands should be made not only to the storage, but also to the dealing with chemicals in production processes.
- The actually tightness of fire water retention basins should be reviewed regularly risk of complacency in ensuring high safety levels.



