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Safety of Installations, Hazard Prevention & Cleaner Production

"Hazard Prevention and Emergency Planning at Transboundary Rivers in the UN ECE Region"
Oil-Storage Terminal
Buncefield, UK
Cyanide-Accident; Kolin, January 2006

Press-Headlines:

- Wave of Poison Is Rolling towards Saxonia!
- Cyanide in the Elbe is endangering Drinking Water Supply in Germany!
Lessons learnt

Even small amounts of dangerous substances released into waters, can cause huge environmental damages, as the impact is

- far-reaching and often
- transboundary

→ harmonised Criteria
Gravity of floods in 2002

Protection means planned for 100-years water

Reality: up to 500-years water
Case of SPOLANA Neratovice

Spolana in floods
Vegetation above the water, which was damaged by chlorine

Vegetation under water, which wasn’t damaged by chlorine
Harbin, China 2005


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German EPA
UNECE – Environmental Policy

Possible Effects of Hazardous Activities to Transboundary Waters

„Espoo“- Convention
„Water“- Convention
„Industrial Accident“- Convention

Joint Expert Group

Hazards to Waters

1. Hazard Prevention
   Safety Guidelines, Recommendations, Checklist

2. Early Warning and Emergency Planning
   International Warning- and Alert- Systems
UNECE - JEG

Safety Guidelines for Pipelines

Principles & Recommendations

→ UNECE-Parties
→ Authorities
→ Operators
UNECE - JEG

Work Plan 2007 - 2008

I. Safety Guidelines/Best Practices for Tailing Dams

II. Guidance for establishing Cross-border Contingency Plans

III. Promotion of Response Exercises
I. Safety Guidelines for Tailing Management Facilities (TMF)
Baia Mare, 2000

Risk Area: Tailing Dams

Impact: Cyanide-Wastewater
→ serious ecological damages
PRINCIPLES FOR TAILING MANAGEMENT
FACILITIES SAFETY

Projects on constructing TMFs, which might have adverse environmental impact across borders, should be notified and consulted between Governments of neighbouring countries and the UNECE Espoo Convention and its provision to perform an environmental impact assessment should be applied (35).
II. Guidance for establishing Crossborder Contingency Plans

Countries:
• Ukraine
• Moldova
• Germany

„Transboundary Cooperation on Risk Management at the Dniester River Basin“

2006 -2008
International Alertplan “Neman“ 2006

Involved Countries

- Lithuania
- Belorussia
- Russian Federation

German Assistance Project
Transboundary Cooperation for Hazard Prevention at the Kura – River Catchment

Involved Countries

- Georgia
- Azerbaijan
- Armenia

German Assistance Project

International Alarm-System for the Kura River Basin - 2006

http://www.umweltbundesamt.de/anlagen/Kura/index.htm
III. **Response Exercises**

- **Bulgarian - Romanian**
  Response Exercise 2008

- **German - Polish**
  Response Exercise 2009
Lviv, 2007

Toxic Release of Phosphorus

Thank You for your Attention!

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