Integrated approach to MH prevention

Milos Palecek
VUBP
Prague
2009
Historical development

1992
- Convention UNECE
- 1993 CR – IMHPS koncept
- APELL
- US EPA

1996 - Application to EU


2000
- Convention UNECE in Force


2006 - Act 59/2006 MH Prevention
SAFETY STRUCTURE

PREVENTION
- Government
- Local Authority
- Public
- Industry

PREPAREDNESS

RESPONS
Prevention

• Legislation
• Implementation
• Inspection
• Information
• Motivation
• Promotion
Requirements

- **CR** - Safety and Security aspects

- **EU** - Seveso I (1982)
  - Seveso II (1996)

- **UNECE** – Convention on the Transboundary Effects of Industrial Accidents
# UNECE Convention vs. SEVESO

<table>
<thead>
<tr>
<th></th>
<th>Convention</th>
<th>Seveso</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Framework</strong></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td><strong>Principles</strong></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td><strong>Detailed requirements</strong></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>
Seveso II vs. Seveso I

- More simple and consistent
- The accent on HF reliability and safety (prevention) management
- The accent on inspection
- The participation of an establishment in emergency and land use planning
- The accent on the role of public
Structure of CR Legislation

**EU**
- Directive
- Guidelines
- Standards

**CR**
- Act (what, who)
- Decree; Gov. Order (how)
- Guidelines
- Standards
MA management in CR

OSH Board
MoLSA
MoE
MoI
MoH

Regional Authority

INSPECTION

Legislation

INSURANCE

DUS
TRY

CONSULTANCY

TRADE UNIONS
Act 59/2006 MH Prevention

The dangerous substances control

Decree 250/2006
Security Precautions for Installations in Group A and B

Decree 255/2006
The Way of Accident Announcement

Decree 256/2006
Major Accident Prevention System (some details)

Guidelines
Guidelines

• Principles, goals and policy of major accident prevention
• Risk assessment and evaluation
• Domino effects
• Safety report
• Assessment of HF influence
Target Groups

• Government
  - Ministries, Inspection, Gov. org.
• Local Authorities
• Industry
  - Corporations (employers/employees), SMEs
• Services
• Self-employed people
• Public
ACT of 59/2006 Coll.,

on the prevention of major accidents caused by selected dangerous chemical substances and chemical preparations
Risk vs. Safety Measures

Column II

Standard safety measures
+ Safety Report
+ Emergency plan & info

Column I

Standard safety measures
+ Safety Program

Ordinary risk

Standard safety measures (OHSAS 18000)
Bodies of the State Administration

a) the Ministry of Environment,
b) the Ministry of the Interior,
c) the Czech Mining Authority
d) the Czech Environmental Inspection,
e) the Regional Authorities,
f) the bodies of state professional supervision over labour safety and the safety of technical installations,
g) the bodies executing the state administration in the areas of prevention,
h) the regional public health services
Information

An operator shall be obliged to inform the employees and other natural persons present in the establishment or at the installation of the risks of a major accident, of preventative safety measures and of desirable behaviour in case of the occurrence of a major accident.
Information to the Public

The Regional Authority shall prepare and provide information to the public in the zone of emergency planning about:

- the risk of a major accident, including the possibility of domino effects,
- preventative safety measures,
- impact mitigation measures,
- the desirable behaviour of individuals in the case of the occurrence of a major accident.
Information in the case of accident

An operator who causes a major accident shall be obliged to immediately notify the competent Regional Authority, other affected bodies of the state administration, and affected municipalities of the major accident.
Insurance

An operator shall be obliged to

» Conclude insurance of liability for damaged caused as a consequence of a major accident

» Conclude insurance prior to bringing a new establishment or installation into test operations
Emergency planning

- The internal emergency plan
- The external emergency plan
PUBLIC PARTICIPATION AND INFORMING THE PUBLIC

The Regional Authority shall provide for public discussion of the program, safety report and external emergency plan, including their up-dating.
Execution of the state administration
Integrated inspection

Bodies of integrated inspection shall
  - carry out controls on operators in the framework of his(her) competence and within the time laid down by the Czech Environmental Inspection,
  - prepare information on the results of controls and submit this information forthwith in written and electronic form to the Czech Environmental Inspection.
Integrated inspection

Bodies of integrated inspection shall
- carry out controls on operators in the framework of his/her competence and within the time laid down by the Czech Environmental Inspection,
- prepare information on the results of controls and submit this information forthwith in written and electronic form to the Czech Environmental Inspection.