Safety report

Inspections

Convention on the Transboundary Effects of Industrial Accidents
Assistance Programme for Eastern Europe, Caucasus and Central Asia (EECCA) and South-Eastern Europe (SEE)

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Why European Directives?

The first reason to think about a directive ....

Chemical plant of the company Imesca, neighbor of the city of Seveso (≈ 22000 people)

09.07.1976  4:00 p.m. start of production of Trichlorophenol in vessel 101
10.07.1976  2:30 a.m. main reaction seems to be completed
        6:00 a.m. crew changes, somebody stops the mixer of vessel 101
≈ 0:30 p.m. main reaction in vessel 101 starts again, increasing fast
0:37 p.m. safety valve of vessel 101 opens
over ≈ 30 min emission of ≈ 3 kg TCDD (Dioxin)

first days after inside an area of ≈ 1x6 km plants shrivel
> 3000 animal die
> 200 people hospitalised
and the public ignores the real reason

8 days later company statement : “TCDD was released”
Main reasons of the accident

Lack of communication between the crews ↔ SMS
Insufficient cooling capacity (reaction) ↔ PHA

Main reasons for the size of the effects

Insufficient cooling capacity (emission time) ↔ PHA
No information to the public ↔ EAP
Ignorance of the production by authority ↓
INSPECTIONS
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Main objectives
Prevention of major accidents
Limitation of their consequences

Main strategic tools ↔ Operator
Major-accident prevention policy (Article 7)
Safety report (Article 9)
Emergency plans (Article 11)

Main strategic tools ↔ Authority
Domino effect (Article 8)
Land-use planning (Article 12)
Inspections (Article 18)
Why a checklist?

Questions ↔ examples at one view.

Logical order can be shown simply.

Concrete results are quickly available.

Can lead directly to necessary actions.
Why only Yes / Limited / No?

How should a missing calculation of effects be weighted against a missing management of change?

Numerically weighted questions are very exhausting.

What percentage is to be reached for acceptance?

The result is often not unique.
Consequences of Limited and No

Limited

This part of the document needs to be improved until the next inspection.

One No

The entire document is not acceptable, it must be revised immediately.

The questions need to be formulated very carefully.

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Why divided into three “C”? 

Completeness 
↓
This part of the document is essential.

Correctness 
↓
This part of the document is available, but is it correct?

Credibility 
↓
This part of the document is available, but is it correct?

Correctness and Credibility ↔ “Crosscheck” for Completeness

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