

Safety Guidelines and Good Industry Practices for Oil Terminals

***Project on hazard and crisis management in
Danube Delta***

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UNECE Technical Assistance Project

Risk management in the Danube Delta



Deep Water Horizon

Danube Delta



UNECE Technical Assistance Project

Riskmanagement at the Danube Delta

Hazard Management

- ARS Inventory
Danube Delta
- Highest Risk:
3 Oil Terminals



UNECE Strategy for Risk Reduction

Objective

- A minimum set of requirements to ensure a basic and harmonized level of safety for hazardous activities throughout the UNECE Region.
- Application of accepted and published good practice procedures to ensure conformity with international standards.
- Assistance of national authorities and operators in ensuring and harmonizing an adequate safety level posed by such activities, potentially contributing to transboundary accidents.

→ Safety Guidelines

Safety Guidelines and Good Industry Practices for Oil Terminals

- **International expert group**
- **Alexey Isakov (GCE Group, Russian Federation)**
- **Andy Roberts (United Kingdom Petroleum Industry Association, UKPIA)**
- **Eddy De Rademaeker (European Federation of Chemical Engineering, Belgium)**
- **Frank Candreva (Det Norske Veritas Germanischer Lloyd, DNV GL, Oil and Gas, Belgium)**
- **Gerhard Winkelmann-Oei (German Federal Environment Agency, Germany)**
- **Richard Gowland (European Process and Safety Centre, United Kingdom)**



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- **History**

- 5 meetings of the Expert group

- Berlin, 20012
- St. Petersburg, Russian Federation, 2012
- Antwerp, Belgium, 2013
- Odessa, Ukraine, 2013
- Geneva, 2014

- 2 site visits

- Galati and Giurgiulesti (2011)
- Odessa (2013)



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Safety Guidelines for Oil Terminals

→ Part 1

Principles & General Recommendations

→ Part 2

Technical and Organizational Safety Aspects

→ Part 3

Sources and further Reading



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Safety Guidelines for Oil Terminals

Part 1

Principles & General Recommendations

- **UNECE-Parties**
- **Competent Authorities**
- **Operators**



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Safety Guidelines for Oil Terminals

Part 2

Technical and Organizational Safety Aspects

- 1. Design & Construction**
- 2. Procurement, Construction and Asset Integrity Management**
- 3. Operations**
- 4. Closure & Decommissioning**



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Safety Guidelines for Oil Terminals

Discussion and Commenting by

- Int. Organisations (March 2014)**
- UNECE Bureau (June 2014)**
- UNECE Member States
(Aug. 2014)**

→ 8th CoP (3 -5 Dec. 2014)



Thank you for your attention