

Directive 2006/21/EC on the management of waste from extractive industries

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- 1. Background: Historical and political context
- 2. The Directive

Scope, Subject Matter

Main provisions

Development and Prospects

3. BATs and BREFs for Extractive Waste

In permitting

Exchange of Information

Legal Framework

MWD, IPPC, IED

Definion and scope, procedure for its preparation

Background



Accidents with mining waste facilities causing river pollution and poisoning of the environment: need to deal with health and environmental risks,

Two examples



Aznalcóllar (Spain, 1998)

Affecting the surroundings of the Coto Doñana National Park following damburst



Baia Mare (Romania, 2000)

pollution of Danube river caused by cyanide spill following a damburst of a tailings pond

Policy context



- ➤ "Promoting sustainable development in the EU non-energy extractive industry," COM(2000)265 final
- ➤ "Safe operation of mining activities: a follow-up to recent mining accidents," COM(2000) 664 final
- > 3 priority actions:

	legislative initiative on mining waste	(2006)
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- preparation of a BAT reference document (2009)
- amendment of the Seveso II directive (chemical accidents) (2012)

Directive 2006/21/EC



- Provides a clear legal framework tailored to this specific industry sector
- Establishes level playing field for Member States as regards the rules ensuring safe management of extractive waste
- Sets obligations and results for Member States
- Member States remain responsible to choose the means: no prescription of particular technologies
- Transposition deadline: 1 May 2008

Scope & Subject Matter

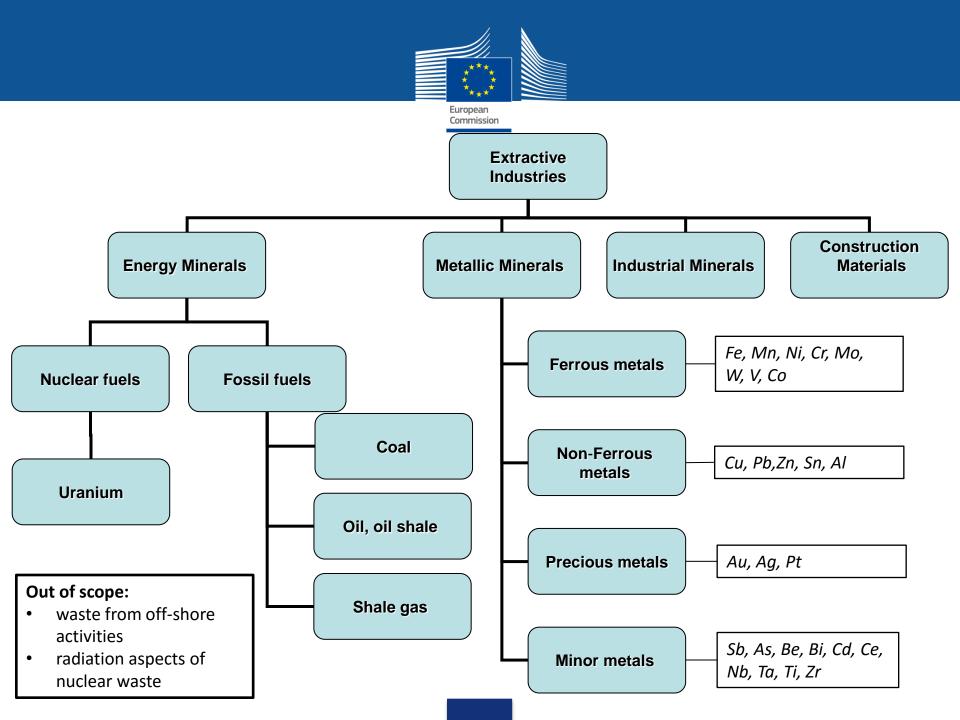


The Directive provides for measures, procedures and guidance to

- Prevent or reduce any adverse effects on environment and human health,
 caused by management of extractive waste, including
 - Management of facilities servicing waste from extractive industries, also after closure
 - Management of waste in general
 - Prevention and mitigation of major accidents

Excluding

- waste that does not directly result from mining operations,
- waste from offshore operations,
- water injected under Article 11.3 of Directive 2000/60/EC, WFD
- Identifying particular situations to differentiate obligations
 - Class A
 - Hazardous waste
 - Inert waste



Main provisions & obligations



For operators

- ✓ Permit
- √ Waste Management Plan
- ✓ Major accident prevention policy
- ✓ Public participation, transboundary impacts
- ✓ Waste facilities: construction and management, closure and after closure procedures
- ✓ Prevention of water, soil, air pollution
- ✓ Financial Guarantee
- ✓ Application of the « Best Available Techniques »

For Member States and Commission

- ✓ Inspections
- ✓ Reporting
- ✓ Penalties
- ✓ Inventory of closed and abandoned sites
- ✓ Exchange of information
- ✓ Developing / adopting guidance

Waste Management Plan

impacts

procedures

deterioration

Financial guarantee

Application of BAT

Major accident prevention policy

Public participation, transboundary

Construction and management

Prevention water, soil and air

Closure and after-closure



Differentiated			
obligations			
	European Commission		
	Category A waste	Non-category A waste	

Yes

Yes, unless already

covered by « Seveso »

Yes

Yes

Yes

Yes

Yes

Yes

European Commission					
	Category A waste	Non-category A waste	Inert waste		
Permit	Yes	Yes	No		

Yes

No

Yes

Yes

Yes

Yes

Yes

Yes

Yes

No

No

Partly

No

Yes

No

Yes

Further development



Methodologies / guidelines developed

- Definition of inert waste
- Criteria for classifying installations
- Methodology to characterize the waste
- Method for the calculation of the financial guarantee
- Analytical standards (e.g. for cyanide)

Expected

- First implementation report
- Inspection of mining waste facilities, inventory and rehabilitation of abandoned facilities, including:
 - Guidelines for the inspection of mining waste facilities (covering pre-disposition, operation, closure and after-closure)
 - Supporting document on closure methodologies for closed and abandoned mining waste facilities

EWD and **IED**



- Extractive activities are not included in Directive 2010/75/EU,
 Industrial Emissions Directive, IED
- EWD refers to the IPPC for the definition of BAT and the criteria to be used to identify them
- Crossing points
 - Permits in mixed installations: joint single permit
 - Definition of BATs
 - BREFs documents



Permit requirement (Art. 7)

No waste facility can operate without a permit, which will contain the Waste Management Plan (WMP)

Permit to:

- Include preventive measures to be taken to minimize the environmental impact during the operational phase, including the proposed control and monitoring procedures,
- Address the safe disposal of extractive waste,
- Plan for the closure and after-closure phases,
- Base needed measures on Best Available Techniques (BATs)

Competent authorities to periodically reconsider and update permit conditions

The operators will review the WMP



Exchange of information (Art. 21 + 22)

Information exchange with a view to developing methodologies for and relating to:

- establishment of inventory of closed waste facilities (art. 20)
- rehabilitation of closed waste facilities (inventory)
- identify BATs
- most appropriate risk assessment procedures
- remedial actions having regard to variation of geological, hydrogeological and climatological characteristics



BAT in the Extractive Waste Directive

- to be used:
 - in order to ensure that extractive waste is managed properly based on BAT (Art. 4§3)
 - to oblige competent authorities to update permit conditions according to changes in BAT (Art. 7§4)
 - to ensure that concentrations of weak acid dissociable cyanide in ponds have to be reduced to lowest possible level (Art. 13§6)
- and:
 - Member States have to ensure that competent authorities follow/are informed of BAT developments (Art. 21§2)
 - the Commission has to organize and publish results from exchange of information on BAT and associated monitoring (Art. 21§3)



Integrated permits

From cradle to grave

- Life cycle management approaches in the management of waste
- All phases considered
 - Design, preparation, operation, closure and after closure
 - Long-term closure objectives to be defined (including specific closure issues for heaps and ponds)

Unifying all relevant procedures

EIA, Natura 2000, Water Framework Directive, etc



ONLY ONE EARTH

For more information please visit:

http://ec.europa.eu/environment/waste/mining/index.h



Thank you for your attention!

European Commission

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