Transport of Radioactive Material in the Federal Republic of Germany

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Nuclear power plants, experimental and demonstration reactors in Germany

Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety

Joint Convention Report Germany 2015
Sites of Facilities of Spent Fuel and Radioactive Waste Management (without on-site storage facilities)

As at: March 2014
Origin and Implementation of Regulations for the transport of radioactive material

- IAEA Safety Standards
- UN Compliance
- All classes
- ICAO
- IMDG Code
- LuftZO
- IMO
- GGVSee
- UNECE
- ADN 2015
- GGVSEB
- OTIF
- RID
- UNECE
Regulation and Legal System

Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety

Dangerous goods transport legislation

Act on the Carriage of Dangerous Goods, GVSEB, GGVSee, Civil Aviation Act
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concept of safe package
- classification of rad. material and appropriate packaging in a graded system at an equal safety level
- limits for rad. contents, dose rate and surface contamination
- radiation protection programmes

Nuclear legislation

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### Regulation and Legal System

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#### Concept of safe package
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#### Transport licences
- reliability, qualification
- compliance with dangerous goods transport legislation
- nuclear liability
- physical protection
- emergency preparedness
- public interest
Responsibilities for Transport

**Dangerous goods transport legislation**

- **Approvals**
  - for package design and shipments:
    Federal Office for the Safety of Nuclear Waste Management (BfE)
  - for H(U) and H(M) package designs, special form and low dispersible material:
    Federal Institute for Material Research and Testing (BAM)

**Nuclear legislation**

- **Transport licensing**
  - for nuclear fuel and large sources:
    Federal Office for the Safety of Nuclear Waste Management (BfE)
  - for other radioactive material by rail:
    Federal Railway Authority (EBA)
  - for other rad. material by road and inland waterways:
    Authorities of the Federal States
### Responsibilities for Transport

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#### Dangerous goods transport legislation
- of shipments by road, inland waterways and sea:
  Authorities of the Federal States
- of shipments by rail:
  Federal Railway Authority (EBA)
- of shipments by air:
  Federal Aviation Office (LBA)

#### Nuclear legislation
- of shipments by road, inland waterways, sea and air:
  Authorities of the Federal States
- of shipments by rail:
  Federal Railway Authority (EBA)

#### Competent authority for import/export licences
- Federal Office for Economic Affairs and Export Control (BAFA)
**Transports in Germany**

**Use of radioactive material in Germany:**

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- About 400 shipments of nuclear fuel

25% shipments by sea
75% shipments by road

5% Inland; 35% Export; 35% Transit; 25% Import
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#### Transports of special public interest

- Transports of waste from reprocessing in F and UK
- Transports to repositories

*Picture from Dr. Alter*

Transport from La Haque to Gorleben 2010

www.Derwesten.de
Thank you for your attention