

Experiences in Germany

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Outline

Introduction
German Legal Situation
German Nuclear Situation
Actual Experiences

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Germany

Germany is a federal Republic with approx.

82 Mio Inhabitants

It consists of 16 Federal States of very different sizes, e.g.:

**Bremen = approx. 0.66 Mill.
Inhabitants**

**Northrhine-Westfalia = approx. 18 Mill.
Inhabitants)**

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German Legal Situation I

There is

- as well federal law
- as law of the federal states

Atomic law is exclusively federal law

- as well as related ordinances
- but in certain proceedings federal states are still involved (for instance at a licensing procedure)

There is no central authority for licensing and supervision of nuclear facilities and installations

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German Legal Situation II

According to the Atomic Law

- the Federal Republic has to construct and operate disposal sites
- the Federal Office for Radiation Protection is in charge of disposal sites on behalf of the Federal Republic
- the Federal Republic has to provide a facility for state custody
- the Federal states have to provide regional storage facilities

German Legal Situation III

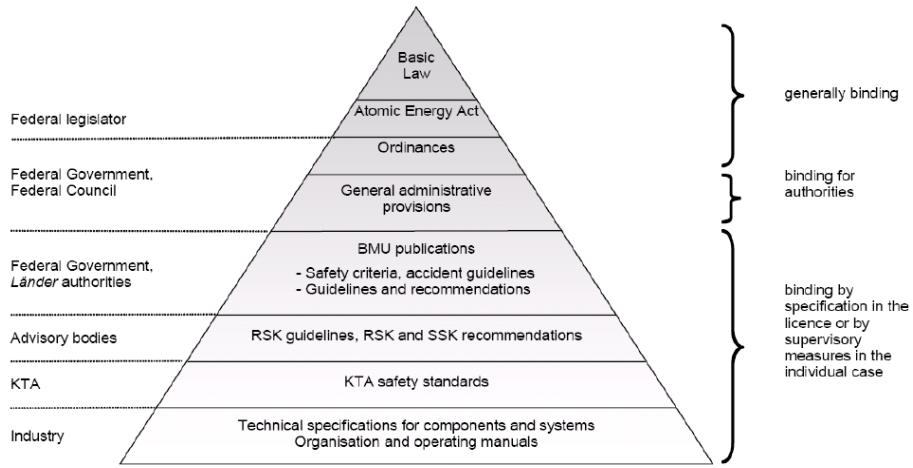
Germany is member of the Joint Convention:

“ARTICLE 2. DEFINITIONS

For the purposes of this Convention:

(i) “**radioactive waste management**” means all activities, including decommissioning activities, that relate to the handling, pretreatment, treatment, conditioning, storage, or disposal of radioactive waste, excluding off-site transportation. It may also involve discharges;”

Legal hierarchy for the management of radioactive waste



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Nuclear Situation

In Germany there are

- 17 NPP's in Operation
- 17 NPP's shut down
- 2 NPP's dismantled (Green Meadow)
- 2 Disposal Sites to be closed
- 1 Disposal Site licensed, in construction
- a number of interim storage sites at NPP sites
- some central storage sites
- nuclear industry (enrichment, fuel production)
- Federal state regional storage facilities

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Amount of conditioned radioactive waste

As of: 31.12.2008

Waste with negligible heat generation	Heat generating waste
93.929 m ³	598 m ³

Prognosis until 2040

As of: March 2009

Waste with negligible heat generation	Heat generating waste
app. 270.000 m ³	app. 29.000 m ³

↓
< 0,1 %

Of over all activity

↓
> 99,9 %

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State storage facilities

- When the waste is handed over to the Federal State regional storage facility, it passes into the ownership of the latter.
- The waste generator's duties in connection with conditioning are thus adopted for this waste by the operator of the Federal State regional storage facility.

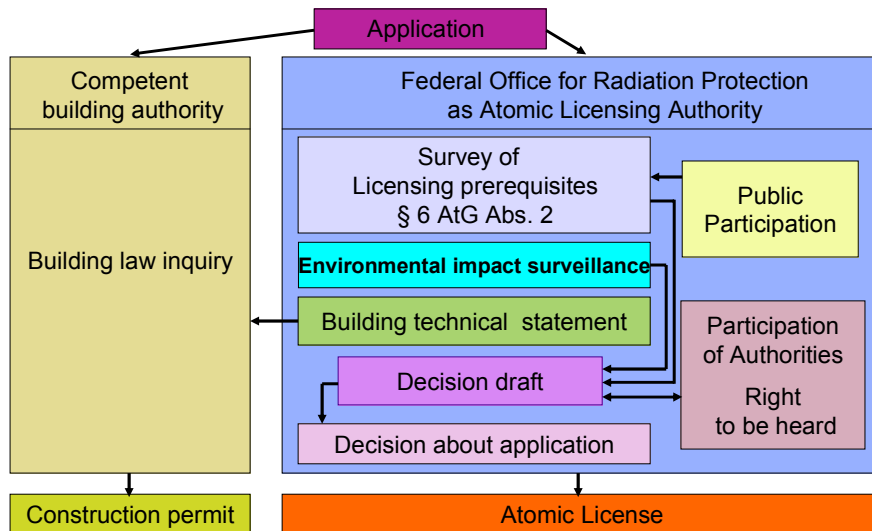


- This procedure ensures the quality standard of the waste packages according to provisions of BfS.

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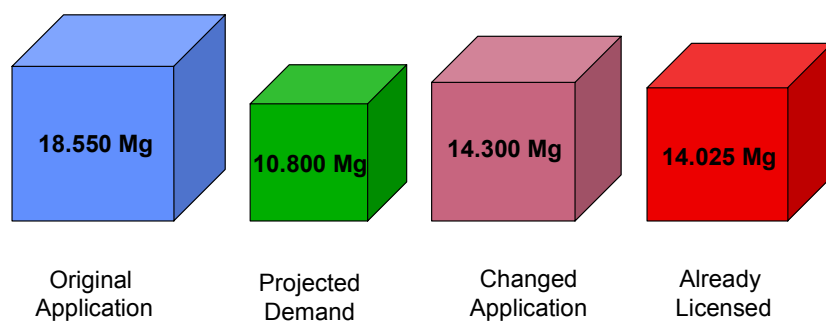
Licensing for a local storage site for spent fuel



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Licensing for local storage sites for spent fuel



Heavy Metal in Spent fuel

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