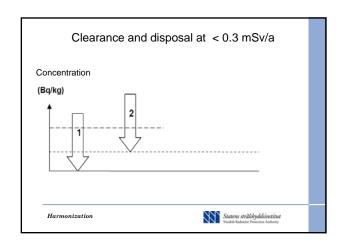
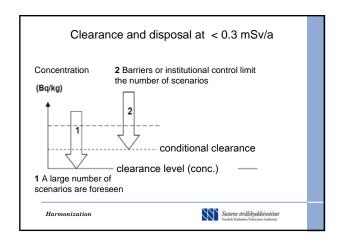
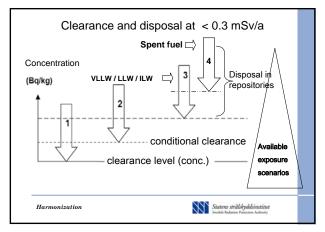


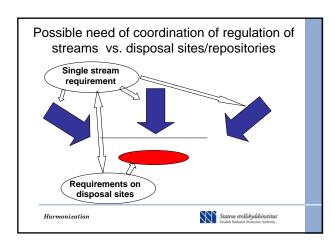


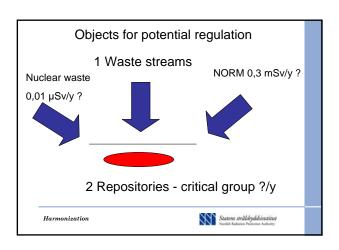
International references - IAEA "DS354 SR: Disposal of Radioactive Wastes" - ICRP 81 Radiation Protection Recommendations as Applied to the Disposal of Long-lived Solid* Radioactive Waste - BSS (EURATOM, IAEA) - exemption concept * Observe that VLLW is not excluded!

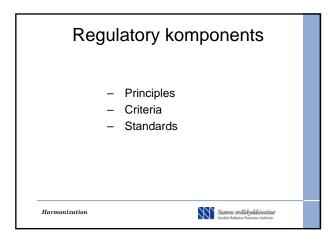


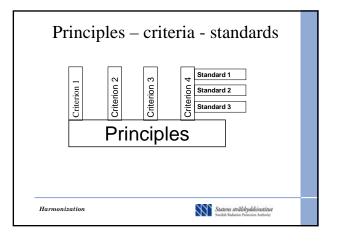


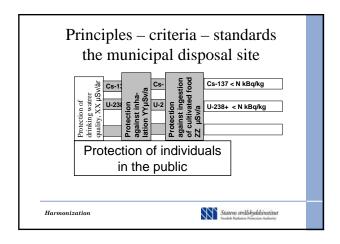


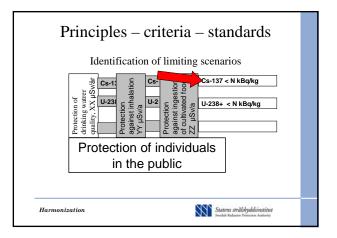












Harmonization factors

Harmonization

- does not imply that all types of rad. waste disposal are regulated by a single rule
- <u>implies</u> that due consideration has been given to a number of factors

Harmonization



Three types of harmonization factors

- 1 Societal factors
- 2 Practice-related factors
- 3 Property-related factors

Harmonization



Harmonization factors 1

- 1 Societal factors
- Resources are needed implying policy/political decisions regarding
 - economy and responsibility
 - choices between alternatives practices creating waste
- Societal and economical factors will also influence the boundary conditions of the required optimization process or application of the BAT, principle
 - Example: optimize doses by choosing best site. Best in the country or best of available after governmental decisions?

Harmonization



Harmonization factors 2

- 2 Practice-related factors, related to whether
- · the waste is a result of an on-going activity or not
- · the waste comes from a regulated process of not
- the waste production is incompletely known or not
- · a stream is temporary or continuous
- a waste stream can be lead into alternative waste disposal facilities

Harmonization



Harmonization factors 3

3 Property-related factors

- The properties of the wastes' radioactive substances, e.g. radiotoxicity and half-life
- The total amount and concentration of radioactive substances in the waste
- Potential intrusion

Harmonization



Take the factors into account with some words on the way

- 10 microsievert/y . Normally no further need for supervision from the point of view of radioprotection
- 100 microsievert/y. Represents a burden on future societies, which constitutes a reason for regulation, but not necessarily an undue burden
- 1 mSv/y. Represents a dose that can be accepted in an exceptional situation of intrusion in a land-fill repository. (ICRP 81 span of 10-100 mSv should be reserved for repository with stronger barriers or institutional control)

Harmonization



