Approaches to environmental radiation protection – Swedish perspective

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Decisions by Parliament/Government
Legal background 1(2)

• The Radiation Protection Act (1988) states that the aim of the law is: "protection of humans and the environment”

• SSI is authorised to issue regulations on the basis of this Act – binding for implementers

• Examples: regulations and guidance on disposal of spent fuel and radioactive waste (1998, 2005) and on discharges from nuclear installations (2000), highlight environmental issues (protection of diversity and biological resources)
Decisions by Parliament/Government
Legal background 2(2)

- "A Safe Radiation Environment" is one of the environmental goals adopted by the Parliament.

- The aim of all environmental goals is to hand over to future generations a society where all major environmental problems are solved, in a 20 – 50 years time frame.

- SSI periodically reviews the situation and reports to the Government on "A Safe Radiation Environment".
Strong Swedish support for the current ICRP initiatives

• Support for the "reference animals and plants" approach, currently developed by the Committee 5 of the ICRP

• SSI Guidance (2005) on demonstration of compliance with regulations on spent fuel and radioactive waste disposal builds on current ICRP thinking as well as experience from EC 5th and 6th Framework Programme Projects
Other Swedish/SSI initiatives and activities


- Support for the IAEA Action Plan and a review of IAEA Safety Series

The ERICA Integrated Approach

Management | Assessment Tool | Characterisation

Plan

Problem formulation

Tier 1
Concentration screening value

Tier 2
Dose screening value

Tier 3
Detailed analysis and evaluation of data. Interaction and supplementation with all relevant databases
Site-specific
Probabilistic analysis
Extrapolation (e.g. population, ecosystem)

Issues and options

Stakeholder Involvement

Evaluation of assessment

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