

Very large literature review for the revision of TRS 364 allowed us to have a rather precise scientific overview of the different gaps in radioecology and safety assessments

A quite large set of ideas for the future :

- Intercomparison exercises (2)
- Guidelines (3)
- “Radioecological studies” (4) (to write down the different gaps of knowledge and to propose further researches)
- CRP projects (2)

Intercomparison exercises :

- Intercomparison exercises on different modelling approaches for chlorine-36 (specific activity modelling, common approach with transfer factors, combined modelling)
- Intercomparison exercises on biogeochemistry of radionuclides in forest ecosystems (not only Cs : Cl, natural radionuclides, ...) and comparison of sensitivity of models and quality of input data

REVISION OF TRS 364 WORKING GROUP

Some ideas for a follow-up of EMRAS project

Guidelines :

- Guideline for use of plant species-indicators for radiation monitoring of the environment surrounding nuclear facilities : methodology (sampling, etc.), role of substratum, ...
- TRS on marine environment
- Methodology to define reference models for reference scenarios for reference parameter sets (waste disposal, remediation activities, emergency situations) (follow-up and improvement of the work done for reference biosphere)

Radioecological studies :

- To define site-specific biosphere characteristics for safety assessments, regarding new modelling approaches (measurement of cofactors)
- Definition and hierarchization of gaps in environmental assessment studies.
To propose further researches.
- Application of the data gathered in the new TECDOC and to see the adequation with scenarios taking into account different timescales (time dynamics dependency). To identify gaps.
- Radioecology of fusion power installations : tritium, less well studied elements. To define the relevant elements, to define realistic scenarios, to begin data collection, to identify gaps of knowledge.

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Some ideas for a follow-up of EMRAS project

CRP projects :

- Research on some elements where no data : Nb and Po, for instance in terrestrial environments, a certain set of elements for foliar transfer, ...
- Evaluation of the effectiveness of remedial actions when applied in another environment