

# **IGD-TP SRA**

Some comments from Amphos21

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Some 30 years ago...

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● KT 1 (Topic 2) Improving safety case communication. This includes safety case communication on:

- **Short-term operational safety;**
- **The transient phase**
- Long-term safety

*There has been much emphasis in safety in the geological perspective, but stakeholders (except authorities/regulators) do not care/ do not believe about long term safety*

- KT 2 Waste forms and their behaviour
  - Topic 1. Credible and sensible models for RRF
  - Topic 2. Waste form behaviour for ILLW

*This is a topic that requires substantial and urgent attention since the volume and complexity of ILLW forms will increase as we keep on licensing nuclear installations.*

*Attention should be given to the waste content and the waste containers (cement, bitumen)*

-  KT 3. Technical feasibility and long-term performance of repository components
  - Cement is an ubiquitous material that is being used in different parts of the repository: from the waste form, plugs, plates, seals, containment of the galleries, shotcreting....and we know very little about its long-term performance....

- *We need to increase our fundamental knowledge on the rates and mechanisms of cement alteration under the conditions imposed by the presence of other materials: waste, scrap, metals..*
- *We need to develop and understand the behaviour of low-alkalinity cements as an outcome of this concerted effort.*

- There is a rational (and probably emotional) link between demonstrating short-term safety with increased and shared monitoring and the improvement of the risk perception by key stakeholders.



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Operational and transient safety are much helped by monitoring and risk communication will be highly improved if we focus our efforts on these periods which are of **concern** to the **concerned** population.



*The IGD-TP should concentrate efforts on these interlinked issues and develop monitoring guidelines*



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