



# **STUK's expectations for waste management research in SAFER-program**

KYT NEAR-Field workshop 13.5.2022

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# Status

- STUK has received the Posiva operating license application and is currently under review
  - Target time for the statement to the ministry at the end of 2023
- Fortum has submitted operation license application for Loviisa NPP and LILW-repository
- TVO's PSR for LILW-repository is under review, and VLLW-repository application will likely be submitted in Autumn 2022
- VTT FiR1 is starting decommissioning phase. Exact time is depending on Fortum's LILW-repository license.
- Fennovoima has terminated the EPC-contract with RAOS

# SAFER2028 central topics within the research area of nuclear waste management

- Final disposal of low- and intermediate level waste (LILW), including new materials arising from decommissioning activities.
- Total disposal system performance during long term and especially the interactions within and between the interfaces of bedrock, overburden, groundwater and engineered barrier systems (EBS).
- EBS, other structures and their combined performance; possible modifications and optimization of the final disposal concepts arising from operational experience.
- Decontamination and minimizing the generation of secondary waste during decommissioning, or pre-disposal treatment of radioactive waste in general.

# Effects of KYT/SAFIR merge into SAFER

- There are no ear marking of funds to waste management or NPP safety research
- The competition will be harder between research proposals
- Good applications have chance to get more funding
- Waste management will have one steering group, which will perform the evaluation of the proposals

# STUK's expectations for the SAFER2028 research

- The proposals should be more equally distributed between HLW and LILW
- The safety significance of the research should be clearly expressed and justified.
- Multiple barriers and research institutions should be included in coordinated projects.
- The test conditions should be justified, and when acceleration is needed the effect of the acceleration be evaluated
- Research can be also done with assumption that some EBS-part has not functioned as planned.
- More communication with the end users during the planning phase
  - 9.6. SAFER framework plan seminar is one opportunity