What is needed for success in disposal regulation – Finnish regulatory expertise at your service

Director Jussi Heinonen

Nuclear Waste and Material Safeguards Regulation



STUK - Radiation and Nuclear Safety Authority

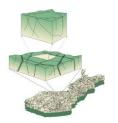


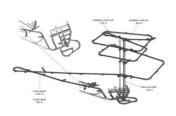
Mission:

Protecting people, society, environment, and future generations from harmful effects of radiation



Regulatory approach for disposal









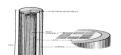
Application for the operating license



2016-2023



Construction license



Late 1970' - 2000



Decision-in-**Principle**



License application review strategy

Oversight of **ONKALO** construction

2001 - 2015

Competence building



Updated safety requirements

Oversight of encapsulation plant and disposal facility construction

First safety requirements **Review of developing** safety case

Dialogue with Posiva and stakeholders





Learning from experiences and changing regulatory position

Transition from idealism "discovering a geologically superior site" to realism: "selection of a societally favourable, geologically adequate site"

Transition form issue based review "we need to solve all scientific debates" to safety based review "we need be assured about safety"

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From R&D to industrial process?

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Update

First safety requirements

Review of developing safety case

Dialogue with Posive and stakeholders License application review strategy

Oversight of ONKALO construction

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Competence building

STUK's regulatory expertise

- Up-to-date and state-of-the-art safety regulations for disposal
- Regulatory approaches for repository licensing and oversight of construction
- In-house expertise for all safety relevant fields
- Approach for regulatory interaction and dialogue with applicant and stakeholders







Nuclear Energy Act

STUK Regulations

Codes and Standards



Professionals at your service

- Stuk International Ltd. develops and improves radiation and nuclear safety worldwide.
- Support in
 - Development of regulatory framework.
 - Establishment of organizational structure of regulatory body.
 - Recruitment assistance of key personnel.
 (advisory service no recruitment as such)
 - Development of safeguards and physical protection standards and systems.
 - Capability and knowledge development.

Utilization of STUK resources



Key success factors in STUK's regulatory work

Will, Commitment & Courage

Commitment and courage to decision making

- Commitment to national policy and strategy
- Implementation of step-wise approach

Active regulatory work

Active involvement, development of regulatory framework

- Clear regulatory framework
- Development of regulatory approach parallel with R&D
- Timely and focused communication with the stakeholders

Knowledge and understanding

Competence development

- Regular follow-up and review of the spent fuel disposal program
- Regulators safety assessment capabilities
- Active dialogue with Posiva



Radiation and Nuclear Safety Authority

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