



Nuclear waste repository, Loviisa, Finland

Design, licensing,
and construction
project 1992-2013

Design, licensing, construction and long term safety analysis of the repository for low and intermediate level waste, 1992-2013.

Power Plant: PWR , VVER-440

Location: Loviisa, Finland

Customer: Fortum Power and Heat Oy/ Loviisa NPP

Project duration: 1992-2013

DESCRIPTION OF THE PROJECT

Fortum has been responsible for preparation of the licensing material for the repository and the design of the repository in all phases (conceptual, technical and detailed design). Fortum has also been responsible for the management and co-ordination of the construction project, and for updating the final safety analysis report (FSAR) of the repository.

The work has been done in three phases, while the purpose of the third phase (2009-2013) was to license, design and construct an extension part for the operating low and intermediate level waste repository into the Loviisa NPP site. The same repository will be used for final disposal of decommissioning waste from Loviisa plant.

RESULTS

The latest update project in 2006-2007 included (1) ground water flow analysis for the Loviisa VLJ -repository area, (2) long term evaluation of the repository, (3) analysis of transportation of radionuclides in the bedrock and biosphere, (4) analysis of special issues, such as gas generation or human intrusion to the repository, and (5) evaluation of the radiation doses for the local inhabitants after the closure of the repository.

Fortum, Generation
P.O. Box 100, FI-0048 FORTUM, Finland
Tel. +358 10 45 11, @FortumNuclear
www.fortum.com/nuclearservices

For further information:
Anni Jaarinen
Tel. +358 40 825 7217
anni.jaarinen@fortum.com

