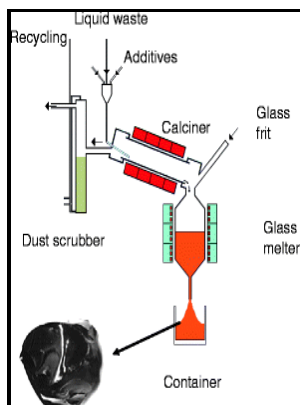


Geochemistry of radioactive waste disposal - a French contribution

Pergamon Press - Andra : waste disposal



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radioactive waste disposal : Andra, National Radioactive Waste Management Agency

Please enter your email address: Your email address will only be used for the purpose of sending you the ITER Organization publications that you have requested. One approach is to distinguish between different types of pore water: inter-layer water and inter-particle water subdivided into external free water and water associated with the diffuse double layer ; , where diffusion of anions is restricted to the free water. In order to evaluate the dose or risk from a repository, a detailed and quantitative understanding of all processes that affect the repository, together with the associated uncertainties, is needed.

Advantages of fusion

After compaction, the weight and dimensions height and inner and outer diameter of each block are inspected. In a situation when colloids are released, the mass of the bentonite barrier will decrease. Moreover, we argue that the optional approach must involve a more complex utilization in the recently developed French project of reversible repository given the presence of multiple disposal stages.

Andra : waste disposal

This facility was licensed on August 3, 1999, and its construction access shafts, basic drift network with underground ventilation was completed in 2006. For more information, see our. Sweden, Finland a temperature limit of 100°C is set in order to limit chemical alterations.

Research: Radioactive Waste Disposal

Sorption can either take place at the permanently charged layer surface of the clay mineral or at the variably charged edge surface. The freezing point of a soil sample is defined as the temperature at which ice starts to form in the material. The small pore size in dense, saturated bentonite, however, prevents transport of colloids.

Andra : wastes management

One example of a full-scale test is the FEBEX test in the Grimsel underground laboratory in Switzerland. The other approach assumes that virtually all water is localized in the interlayer due to the large surface area of the clay and the high density of the buffer. A mixture of sand and bentonite is foreseen as a sealing material for the emplacement tunnels and caverns at different locations in the repository.

Research: Radioactive Waste Disposal

The material of the buffer surrounding the canister is selected so as to prevent advective transport in the near-field. The center line of the buffer blocks coincides with the center line of the deposition hole.

Andra : waste disposal

SKB has relevant experience from the Äspö HRL. The governing variables are the concentration and the layer charge of the montmorillonite. The emplacement density of this mixture ensures that the hydraulic conductivity remains low enough to ensure diffusive transport, the gas permeability is high enough to allow for gas transport without plastic deformation of the buffer or sedimentary host rock, the porosity is sufficiently low to inhibit bacterial growth, and the density is sufficiently high to seal the EDZ by swelling and to limit colloidal transport.

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The swelling enables the installed clay to fill engineering gaps and voids as well as to balance the buffer mass between components installed with different initial densities ϵ . The buffer homogeneity is ensured partially by the fact that the buffer consists of a clay material that swells when saturated with water. Freezing For repositories located in areas where the possibility of future permafrost conditions cannot be ruled out, the effect of bentonite freezing has to be considered.

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