Special Issue

Implications of THMC Processes on Long-Term Safety of Geological Disposal of Radioactive Waste

Message from the Guest Editors

Geological disposal being considered in many countries for the long-term management of radioactive waste consists of emplacing the waste in a repository at depths of hundreds of meters in a suitable rock formation. A deep geological repository (DGR) relies on a multiple, redundant barrier system, with engineered and natural components that act together to contain and isolate the waste for tens of thousands up to a million years. The engineered barrier components are typically the waste container, the bentonite sealing system that surrounds the container in the emplacement room and the host rock formation is the natural component.

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