

Article

A Multiphysics Model for the Near-Field Evolution of a Geological Repository of Radioactive Waste

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Abstract: The safety and robustness of Deep Geological Repositories (DGRs) are of paramount importance for the long-term management of spent nuclear fuel from electricity generation. The introduction of a multi-barrier system, which includes the host rock formation and an engineered barrier system (including the bentonite buffer), has been a widely used approach to ensure the safety of DGRs. The assessment of the long-term safety of DGRs involves the mathematical modeling of the coupled thermal–hydraulic–mechanical–chemical (THMC) processes that occur in the near-field of the DGRs and their impact on the behaviour and engineering properties of the bentonite buffer. This paper presents a review of the THMC-coupled processes that arise in the bentonite buffer as well as a mathematical model governing such coupled processes. The model is verified against existing analytical solutions and validated against measured data of a thermal diffusion experiment in a sand bentonite column. Also, scoping analyses were performed to assess the influence of coupled THM processes on solute transport in clayrocks. The results of the numerical model closely matched those of the analytical solutions and experimental data demonstrating the capability of the provided mathematical model as well as the numerical approach in enhancing our comprehension of DGR behaviour. This enhanced comprehension will be valuable for safety prediction and assessment in the context of DGRs. The work presented in this paper is part of the Canadian Nuclear Safety Commission’s (CNSC) regulatory research to gain independent knowledge on the safety of the geological disposal of radioactive waste.

Keywords: deep geological repository; thermal-hydraulic-mechanical coupling; bentonite buffer; clayrock; THMC; radioactive waste

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1. Introduction

1.1. Deep Geological Disposal Concept

Several nations, including Canada, which generate electricity from nuclear power, are presently contemplating the geological disposal of radioactive waste in deep geological formations. Geological disposal entails the use of several barriers to contain the waste for an extended period and retard the migration of radionuclides from the waste ensuring the protection of the near-surface environment. The current Canadian concept for the geological disposal of spent nuclear fuel (Figure 1), similar to international concepts, involves burying the waste deep underground in a repository that is excavated in a suitable rock formation such as crystalline or sedimentary rock [1]. Desirable attributes of the rock formation are (1) depth should be sufficient to isolate the DGR from the human environment, (2) appropriate low permeability reduce the potential of fluid flow through the repository post closure, (3) the absence of exploitable natural resources to reduce chances of human intrusion, and (4) geological stability.

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