

STORAGE OF TRITIATED WATERS IN SALT CAVERNS

Pierre Bérest, Benoît Brouard
Laboratoire de Mécanique des Solides - Ecole Polytechnique

François Beugin, Jonathan Goldberg
Ecole Polytechnique

ABSTRACT

Salt caverns kept at a relatively low pressure by a permanent hydrocarbon blanket offer an appealing solution to the problem of temporary storage of hazardous liquid wastes. Groundwater flow occurs toward the cavern, preventing any wastes leaks. The storage remains safe even in the case of well-head failure and retrievability is possible at any time. Finally, cavern convergence is accelerated by reducing the density of the fluid column in the well but to an extent that remains acceptable in most cases.