

TABLE V-17A

Possible Exposures and Risks from Geologic Repository

<i>Accident Description</i>	<i>Maximum Individual Exposure, rem (70-yr whole-body commitment)</i>	<i>Maximum Individual Risk, Probability Times Consequence, rem/year</i>
Canister drop down mine shaft	1.4×10^{-5}	1.8×10^{-13}
Repository breach by meteor	5.5×10^{-6}	1.1×10^{-6}
Repository breach by faulting and flooding	7.4×10^{-3}	3.0×10^{-11}
Repository breach by drilling	1.1×10^4	Probability Intermediate ($< 5 \times 10^{-3}$)

4. Offsite Land Contamination

Levels of radionuclide deposition that would require evacuation of people and restrictions on farming and milk production are discussed in more detail in Reference 8 and are given below in Table V-18. The deposition limits were derived from the dose criteria given in Table V-19, which are also discussed in Reference 8.

TABLE V-18

Radionuclide Deposition Limits for Evacuation and Restrictions on Farming, Ci/m²

<i>Isotope</i>	<u><i>Evacuation</i></u>		<u><i>Restrictions on Farming</i></u>	
	<i>Direct Radiation</i>	<i>Inhalation</i>	<i>First Year</i>	<i>Long Term</i>
⁹⁰ Sr	-	2×10^{-4}	4×10^{-5}	2×10^{-4}
¹³⁷ Cs	3×10^{-5}	1×10^{-3}	2×10^{-6}	8×10^{-5}
^{238,239} Pu	-	1×10^{-7}	-	-