

Radioactivity of a fusion power plant

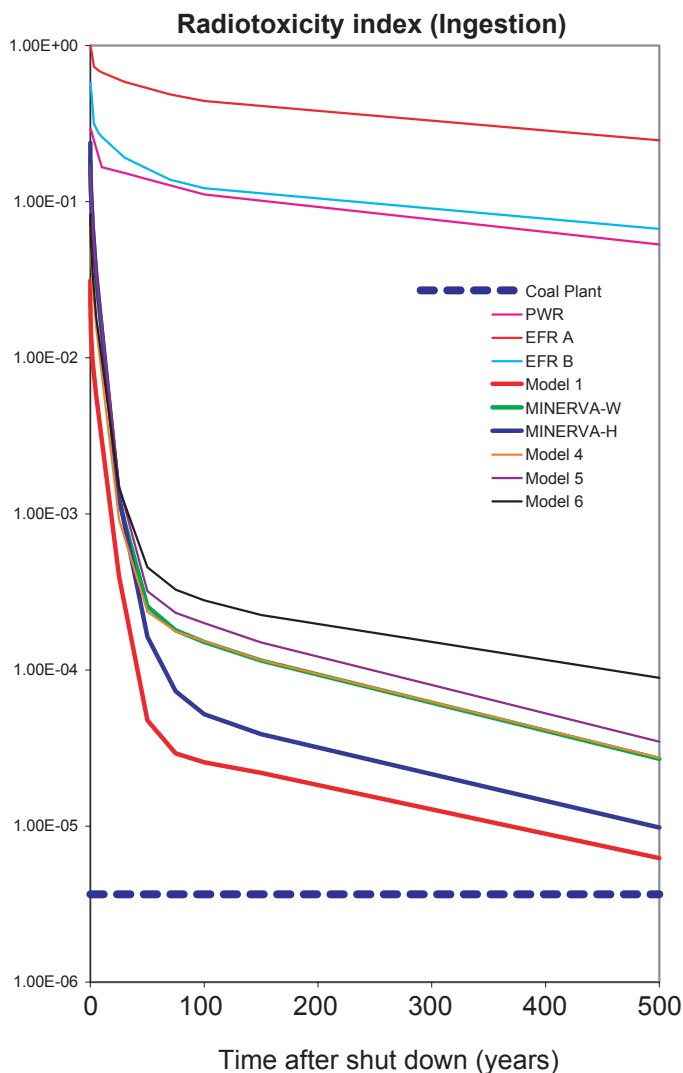
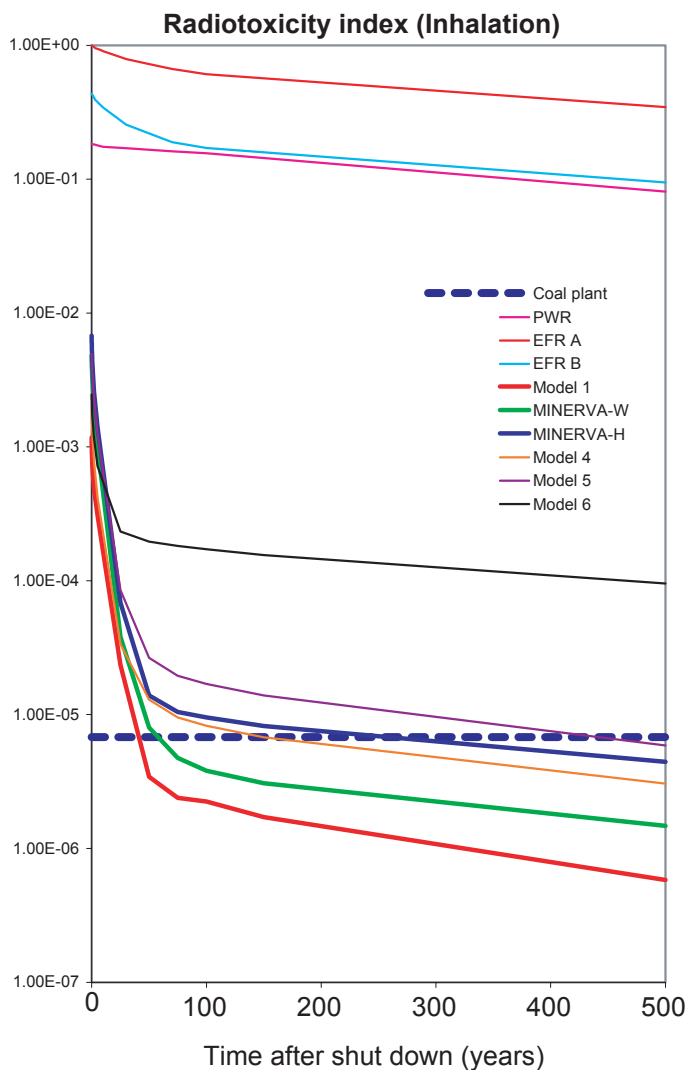


Figure 1: Activity of spent fuel through time

Plant model	FW/blanket structure	Tritium generating material	Neutron multiplier	FW/blanket coolant
1	vanadium alloy	Li ₂ O ceramic pebble bed	none	helium
MINERVA-W	low activation martensitic steel	liquid Li ₁₇ Pb ₈₃	Li ₁₇ Pb ₈₃	water
MINERVA-H	low activation martensitic steel	Li ₄ SiO ₄ ceramic pebble bed	beryllium	helium
4	SiC/SiC	liquid Li ₁₇ Pb ₈₃	Li ₁₇ Pb ₈₃	liquid Li ₁₇ Pb ₈₃
5	Low Activation martensitic steel with SiC/SiC insulators	liquid Li ₁₇ Pb ₈₃	Li ₁₇ Pb ₈₃	helium and liquid Li ₁₇ Pb ₈₃
6	SiC/SiC	Li ₄ SiO ₄ ceramic pebble bed	beryllium	helium

