

(20.4) KOH is normally used for pH control in VVER reactors. Which radioisotopes will be formed from potassium in the coolant?

$^{39}\text{K}(n,\gamma)^{40}\text{K}$ 1.96 b

$^{39}\text{K}(n,\alpha)^{36}\text{Cl}$ 4.3 mb

$^{40}\text{K}(n,\alpha)^{37}\text{Cl}$ 0.39 b

$^{41}\text{K}(n,\gamma)^{42}\text{K}$ 1.46 b

Answer: ^{36}Cl , ^{37}Cl , ^{40}K and ^{41}K