

# CORE

Fission

93.4%  
other FPs

6.6%

$^{135}\text{Xe}$



poisoning



poisoning

Porous in-core  
graphite  
absorbs  $^{135}\text{Xe}$

$^{135}\text{Xe}$  is in  
the reactor  
core

$^{135}\text{Xe}$   
returns to  
the primary  
loop

(100-x)% of total flow

$^{135}\text{Xe}$  leaves  
core dissolved  
in salt

x% of total flow

Salt is sparged  
with He  
bubbles

$^{135}\text{Xe}$  migrates  
to He bubbles

$\epsilon_m$

bubbles are removed from  
salt by entrainment  
separator

$\epsilon_{es}$

off gas system

$1 - \epsilon_m$

$1 - \epsilon_{es}$