

CORE

Fission

93.6%
other FPs

6.4%

^{135}Te
 ^{135}I
 ^{135}Xe

poisoning

Porous in-core
graphite
absorbs ^{135}Xe

^{135}Xe is in
the reactor
core

^{135}Xe
returns to
the primary
loop

(100-x)% of total flow

^{135}Xe leaves
core dissolved
in salt

x% of total flow

Salt is sparged
with He
bubbles

^{135}Xe migrates
to He bubbles

ϵ_m

bubbles are removed from
salt by entrainment
separator

ϵ_{es}

off gas system

$1 - \epsilon_m$

$1 - \epsilon_{es}$

poisoning