

August 21, 2000

Spent Fuel Pool vs. Reactor Accident	E Affected on Accident	E Affect on Early Fatality Risk	E Affect on Cancer Fatality Risk	E Affect on Land Contamination
lower decay power density	more time to prevent and mitigate release ²	large	small large	small large
	lower inventories available for release	only affects ruthenium	small	small
	more time to evacuate ²	large	small	small
	lower release fractions²	large	large	large
more fuel than reactor, fuel has varying decay power densities	higher or lower amounts of fuel releasing fission products ²	small	small	small
air or steam environment ¹	air environment gives higher ruthenium and fuel fines release	large	large	large

¹depends on Level 1 analysis

²depends on Level 2 analysis (thermal hydraulics)

Define large
medium
small

> 100%
50-100%
≤ 50%

7

I-75