<u>Necessary</u> <u>Definitions</u>

Problem: ***What unit to use in describing radiation damage in fissile material?***

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Properties are more related to fission events than to neutron fluence

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No single definition satisfactory!

A.) Reactor Designer - More concerned with power density than fission density

B.) Reactor Physicist- More concerned with percentage of fissile atoms lost by all processes than with % fissioned

C.) Material Scientists- Can't agree! i.e., a 70% burnup of U atoms in UO_2 -Steel cermet means more than

3×10^{21} fissions/cm^3