

4/19/99

Final Outline (with ~~some~~ preliminary results)

Item 4a. Evaluate release fractions.

Group	Release Fractions ^{1,2}
noble gases	1
iodine	1
cesium	1
tellurium	2×10^{-2}
strontium	2×10^{-3}
ruthenium	2×10^{-5}
lanthanum	1×10^{-6}
cerium	1×10^{-6}
barium	2×10^{-3}

¹ Release fractions are for fuel in a spent fuel pool that catches on fire with no mitigation.

² Release fractions are taken from NUREG/CR-6451, with the exception of lanathanum and cerium. Release fractions in NUREG/CR-6451 are the same as in NUREG/CR-4982, with the exception of lanthanum and cerium. NUREG/CR-6451 increased the release of lanthanum and cerium from 1×10^{-6} to 6×10^{-6} to reflect the BNL belief that fuel fines could be released to the ~~environment~~ ^{offsite} from fuel with high burnup. RES staff does not agree that fuel fines ~~could~~ ^{would} be released offsite. Therefore, the original release fractions (i.e., 1×10^{-6}) are used in the current consequence analysis.

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