Table H.1 Acceptable License Termination Screening Values of Common Radionuclides for Building-Surface Contamination

Radionuclide	Symbol	Acceptable Screening Levels[a] for Unrestricted Release (dpm/100 cm^2)[b]
Hydrogen-3 (Tritium)	^{3}H	120000000
Carbon-14	^{14}C	3700000
Sodium-22	^{22}Na	9500
Sulfur-35	^{35}S	13000000
Chlorine-36	^{36}Cl	500000
Manganese-54	^{54}Mn	32000
Iron-55	^{55}Fe	4500000
Cobalt-60	^{60}Co	7100
Nickel-63	^{63}Ni	1800000
Strontium-90	^{90}Sr	6700
Technetium-99	^{99}Tc	1300000
Iodine-129	^{129}I	35000
Cesium-137	^{137}Cs	28000
Iridium-192	^{192}Ir	74000

Notes:

a. Screening levels are based on the assumption that the fraction of removable surface contamination is equal to 0.1. For cases when the fraction of removable contamination is undetermined or higher than 0.1, users may assume for screening purposes that 100 % of surface contamination is removable, and therefore the screening levels should be decreased by a factor of 10. Users may calculate site-specific levels using available data on the fraction of removable contamination in DandD.[3]

b. Units are dpm/100 cm^2. One dpm is equivalent to 0.0167Bq. To convert to units of Bq/m^2, multiply each value by 1.67. The screening values represent surface concentrations of individual radionuclides deemed to be in compliance with the 0.25 mSv/y (25 mrem/y) unrestricted release dose limit in 10 CFR 20.1402. For radionuclides in a mixture, the "sum of fractions" rule applies (see note 4, of footnote 3 to 10 CFR Part 20, Appendix B for a description of sum of fractions. An unofficial copy of the note is available on the NRC website at https://www.nrc.gov/reading-rm/doc-collections/cfr/part020/appb/footnotes.html).

c. NUREG/CR-5512, Vol. 3, Table 5.19 (see values in column labeled $P_{99} = 0.90$), contains screening values for additional radionuclides not found in Table H.1. The Table 5.19 screening values are also acceptable for use provided the underlying assumptions of the screening approach are met (65 FR 37186).

3 The original footnote to this table, published in 1998 (63 FR 64132), referenced use of DandD Version 1, which was the version of the code used to develop the screening values in this table. However, after publication of the screening values in the FR in 1998, probabilistic DandD Version 2 was developed and was used to create the screening values reported in Table H.2. Therefore, licensees should use more current versions of DandD (Version 2 and later) to develop screening values.