

National Council on Radiation Protection and Measurements

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MEMORANDUM

Date: May 20, 2011

To: NCRP Customers

From: David A. Schauer
Executive Director

Subject: Errata for NCRP Report No. 145

The following corrections should be made to Report No. 145, *Radiation Protection in Dentistry* (2003):

- Page 101, Section F.2.1.3.2, line 14: change “ 4.5×10^{-5} ” to “0.45 μGy ”
- replace original Table F.4b with attached corrected version

These changes do not affect the recommendations and conclusions of this Report.

TABLE F.4b—Barrier transmission parameters for single-phase waveforms.^a

kVp	Lead			Steel		
	α (mm ⁻¹)	β (mm ⁻¹)	γ	α (mm ⁻¹)	β (mm ⁻¹)	γ
50	6.046	3.290×10^1	2.537×10^{-1}	1.642	6.073	4.118×10^{-1}
70	4.241	2.683×10^1	4.814×10^{-1}	7.744×10^{-1}	5.243	6.268×10^{-1}
100	2.029	1.315×10^1	4.835×10^{-1}	3.695×10^{-1}	3.663	8.572×10^{-1}
kVp	Plate Glass			Gypsum Wallboard		
	α (mm ⁻¹)	β (mm ⁻¹)	γ	α (mm ⁻¹)	β (mm ⁻¹)	γ
50	8.721×10^{-2}	2.221×10^{-1}	4.430×10^{-1}	3.856×10^{-2}	1.078×10^{-1}	5.047×10^{-1}
70	5.713×10^{-2}	1.693×10^{-1}	6.117×10^{-1}	2.245×10^{-2}	8.524×10^{-2}	7.112×10^{-1}
100	3.984×10^{-2}	1.058×10^{-1}	6.793×10^{-1}	1.478×10^{-2}	5.277×10^{-2}	8.006×10^{-1}
kVp	Lead acrylic			Wood		
	α (mm ⁻¹)	β (mm ⁻¹)	γ	α (mm ⁻¹)	β (mm ⁻¹)	γ
50	— ^b	— ^b	— ^b	1.131×10^{-2}	3.770×10^{-3}	1.133
70	3.657	1.962×10^1	3.260×10^{-1}	9.010×10^{-3}	1.610×10^{-3}	1.176
100	2.588	1.380×10^1	5.063×10^{-1}	7.200×10^{-3}	9.500×10^{-4}	1.207

^aCondensed from Archer *et al.* (1994). Note that Archer *et al.* did not measure attenuation properties of concrete.

^bData not available for 50 kVp.