

Figure: 25 TAC §289.201(n)(2)

MEAN QUALITY FACTORS, Q, AND FLUENCE PER UNIT
DOSE EQUIVALENT FOR MONOENERGETIC NEUTRONS

		Fluence per Unit	Fluence per Unit
Neutron	Quality	Dose Equivalent*	Dose Equivalent*
Energy	Factor**	(neutrons	(neutrons
(MeV)	(Q)	cm ⁻² rem ⁻¹)	cm ⁻² Sv ⁻¹)

(thermal)	2.5 x 10 ⁻⁸	2	980 x 10 ⁶	980 x 10 ⁸
	1.0 x 10 ⁻⁷	2	980 x 10 ⁶	980 x 10 ⁸
	1.0 x 10 ⁻⁶	2	810 x 10 ⁶	810 x 10 ⁸
	1.0 x 10 ⁻⁵	2	810 x 10 ⁶	810 x 10 ⁸
	1.0 x 10 ⁻⁴	2	840 x 10 ⁶	840 x 10 ⁸
	1.0 x 10 ⁻³	2	980 x 10 ⁶	980 x 10 ⁸
	1.0 x 10 ⁻²	2.5	1,010 x 10 ⁶	1,010 x 10 ⁸
	1.0 x 10 ⁻¹	7.5	170 x 10 ⁶	170 x 10 ⁸
	5.0 x 10 ⁻¹	11	39 x 10 ⁶	39 x 10 ⁸
	1.0	11	27 x 10 ⁶	27 x 10 ⁸
	2.5	9	29 x 10 ⁶	29 x 10 ⁸
	5.0	8	23 x 10 ⁶	23 x 10 ⁸
	7.0	7	24 x 10 ⁶	24 x 10 ⁸
	10	6.5	24 x 10 ⁶	24 x 10 ⁸
	14	7.5	17 x 10 ⁶	17 x 10 ⁸
	20	8	16 x 10 ⁶	16 x 10 ⁸
	40	7	14 x 10 ⁶	14 x 10 ⁸
	60	5.5	16 x 10 ⁶	16 x 10 ⁸
	1.0 x 10 ²	4	20 x 10 ⁶	20 x 10 ⁸
	2.0 x 10 ²	3.5	19 x 10 ⁶	19 x 10 ⁸
	3.0 x 10 ²	3.5	16 x 10 ⁶	16 x 10 ⁸
	4.0 x 10 ²	3.5	14 x 10 ⁶	14 x 10 ⁸

*Monoenergetic neutrons incident normally on a 30-centimeter diameter cylinder tissue-equivalent phantom.

**Value of quality factor (Q) at the point where the DE is maximum in a 30-centimeter diameter cylinder tissue-equivalent phantom.
