

Table A.42. Ambient and personal dose equivalent per unit neutron fluence,  $H^*(10)/\Phi$  and  $H_{p,slab}(10,\alpha)/\Phi$ , in units of pSv cm<sup>2</sup> for monoenergetic neutrons incident in various geometries on the ICRU sphere and slab. See Figs 21 and 31-33

Energy (MeV)	$H^*(10)/\Phi$	$H_{p,slab}(10,0^\circ)/\Phi$	$H_{p,slab}(10,15^\circ)/\Phi$	$H_{p,slab}(10,30^\circ)/\Phi$	$H_{p,slab}(10,45^\circ)/\Phi$	$H_{p,slab}(10,60^\circ)/\Phi$	$H_{p,slab}(10,75^\circ)/\Phi$
$1.00 \times 10^{-9}$	6.60	8.19	7.64	6.57	4.23	2.61	1.13
$1.00 \times 10^{-8}$	9.00	9.97	9.35	7.90	5.38	3.37	1.50
$2.53 \times 10^{-8}$	10.6	11.4	10.6	9.11	6.61	4.04	1.73
$1.00 \times 10^{-7}$	12.9	12.6	11.7	10.3	7.84	4.70	1.94
$2.00 \times 10^{-7}$	13.5	13.5	12.6	11.1	8.73	5.21	2.12
$5.00 \times 10^{-7}$	13.6	14.2	13.5	11.8	9.40	5.65	2.31
$1.00 \times 10^{-6}$	13.3	14.4	13.9	12.0	9.56	5.82	2.40
$2.00 \times 10^{-6}$	12.9	14.3	14.0	11.9	9.49	5.85	2.46
$5.00 \times 10^{-6}$	12.0	13.8	13.9	11.5	9.11	5.71	2.48
$1.00 \times 10^{-5}$	11.3	13.2	13.4	11.0	8.65	5.47	2.44
$2.00 \times 10^{-5}$	10.6	12.4	12.6	10.4	8.10	5.14	2.35
$5.00 \times 10^{-5}$	9.90	11.2	11.2	9.42	7.32	4.57	2.16
$1.00 \times 10^{-4}$	9.40	10.3	9.85	8.64	6.74	4.10	1.99
$2.00 \times 10^{-4}$	8.90	9.84	9.41	8.22	6.21	3.91	1.83
$5.00 \times 10^{-4}$	8.30	9.34	8.66	7.66	5.67	3.58	1.68
$1.00 \times 10^{-3}$	7.90	8.78	8.20	7.29	5.43	3.46	1.66
$2.00 \times 10^{-3}$	7.70	8.72	8.22	7.27	5.43	3.46	1.67
$5.00 \times 10^{-3}$	8.00	9.36	8.79	7.46	5.71	3.59	1.69
$1.00 \times 10^{-2}$	10.5	11.2	10.8	9.18	7.09	4.32	1.77
$2.00 \times 10^{-2}$	16.6	17.1	17.0	14.6	11.6	6.64	2.11
$3.00 \times 10^{-2}$	23.7	24.9	24.1	21.3	16.7	9.81	2.85
$5.00 \times 10^{-2}$	41.1	39.0	36.0	34.4	27.5	16.7	4.78
$7.00 \times 10^{-2}$	60.0	59.0	55.8	52.6	42.9	27.3	8.10
$1.00 \times 10^{-1}$	88.0	90.6	87.8	81.3	67.1	44.6	13.7
$1.50 \times 10^{-1}$	132	139	137	126	106	73.3	24.2
$2.00 \times 10^{-1}$	170	180	179	166	141	100	35.5
$3.00 \times 10^{-1}$	233	246	244	232	201	149	58.5
$5.00 \times 10^{-1}$	322	335	330	326	291	226	102
$7.00 \times 10^{-1}$	375	386	379	382	348	279	139
$9.00 \times 10^{-1}$	400	414	407	415	383	317	171
$1.00 \times 10^0$	416	422	416	426	395	332	180
$1.20 \times 10^0$	425	433	427	440	412	355	210
$2.00 \times 10^0$	420	442	438	457	439	402	274
$3.00 \times 10^0$	412	431	429	449	440	412	306
$4.00 \times 10^0$	408	422	421	440	435	409	320
$5.00 \times 10^0$	405	420	418	437	435	409	331
$6.00 \times 10^0$	400	423	422	440	439	414	345
$7.00 \times 10^0$	405	432	432	449	448	425	361
$8.00 \times 10^0$	409	445	445	462	460	440	379
$9.00 \times 10^0$	420	461	462	478	476	458	399
$1.00 \times 10^1$	440	480	481	497	493	480	421
$1.20 \times 10^1$	480	517	519	536	529	523	464
$1.40 \times 10^1$	520	550	552	570	561	562	503
$1.50 \times 10^1$	540	564	565	584	575	579	520
$1.60 \times 10^1$	555	576	577	597	588	593	535
$1.80 \times 10^1$	570	595	593	617	609	615	561
$2.00 \times 10^1$	600	600	595	619	615	619	570
$3.00 \times 10^1$	515	na <sup>a</sup>	na	na	na	na	na <sup>a</sup>
$5.00 \times 10^1$	400	na	na	na	na	na	na
$7.50 \times 10^1$	330	na	na	na	na	na	na
$1.00 \times 10^2$	285	na	na	na	na	na	na
$1.25 \times 10^2$	260	na	na	na	na	na	na
$1.50 \times 10^2$	245	na	na	na	na	na	na
$1.75 \times 10^2$	250	na	na	na	na	na	na
$2.01 \times 10^2$	260	na	na	na	na	na	na

<sup>a</sup>Not available.