Doses behind the LAr End Cap Calorimeter

Here are given results of induced equivalent dose rate simulations in the area between backside of LAr EC and shifted Disk Shield.

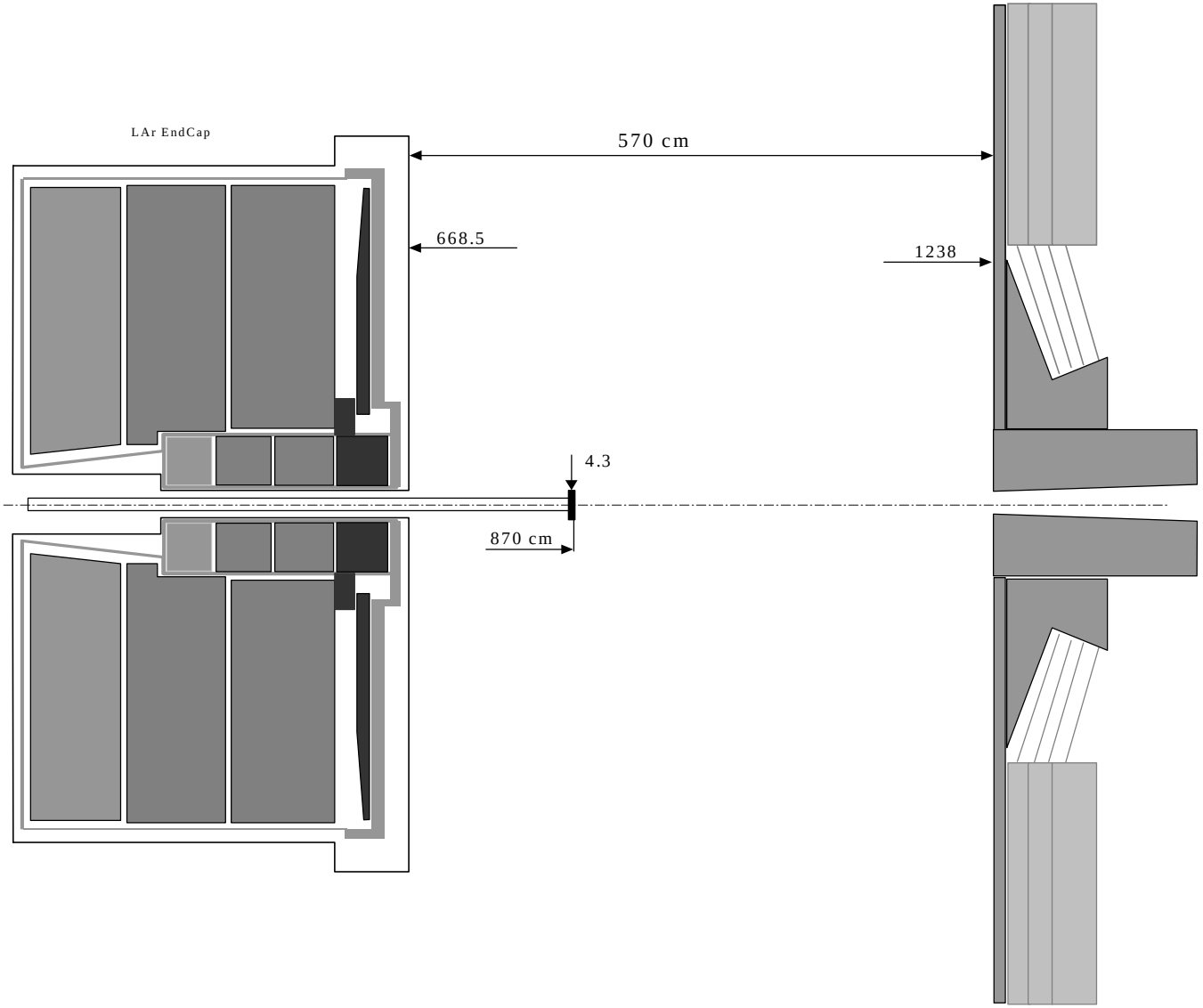

Fig.1. Access scenario to the area between LAr EC and Disk Shield.

Table 1

Equivalent dose rate from LAr EC, Disk, and stainless steel VA for T= 100 d, t=1d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									96.5	60.5	105.8	238.1	572.6	1116.6	1918.8	2733.0	3448.9
5- 10	5	2209.4	2075.2	2240.4	2256.0	2217.1	2122.6	2055.9	1626.2	93.8	57.6	99.1	221.7	542.2	1063.7	1861.8	2727.4	3465.5
10- 20	10	851.9	838.8	943.6	1006.8	1018.0	995.8	970.1	757.9	88.1	54.0	90.6	206.4	495.3	909.9	1541.2	2285.5	3185.4
20- 30	10	396.1	411.6	466.2	519.2	546.4	548.8	539.0	416.8	82.0	53.8	88.6	203.0	433.7	693.8	979.6	1201.1	1348.9
30- 40	10	252.9	263.7	294.2	330.5	356.2	366.5	362.8	281.3	76.4	53.8	86.8	190.6	354.9	473.1	555.7	596.3	515.7
40- 50	10	182.7	190.2	209.2	234.0	254.9	265.6	267.0	208.2	71.5	52.6	86.0	172.6	265.2	314.8	332.1	320.6	240.0
50- 65	15	134.3	138.7	150.3	166.1	181.7	191.4	194.5	154.9	65.6	49.3	86.5	139.1	190.5	194.5	189.6	166.0	110.6
65- 85	20	96.2	98.5	105.0	114.3	124.7	132.3	135.3	111.8	57.0	47.5	78.4	99.8	117.2	107.3	103.2	78.8	52.7
85- 110	25	68.6	70.0	73.7	78.8	85.1	90.0	93.3	79.8	45.4	49.7	52.4	70.1	67.4	58.0	55.6	36.4	25.4
110- 135	25	50.8	51.6	53.8	56.9	60.5	63.8	65.8	58.0	40.5	41.0	45.7	46.4	37.2	36.3	30.7	17.5	13.0
135- 165	30	38.6	39.0	40.1	42.0	43.8	45.6	46.0	44.7	36.1	28.6	35.2	32.3	21.7	25.8	17.4	9.9	8.1
165- 195	30	28.3	28.6	29.1	30.1	30.8	31.5	34.7	36.1	31.6	26.7	23.0	22.7	16.0	18.7	10.5	6.7	6.0
195- 225	30	20.9	21.0	21.4	22.2	23.0	24.0	27.9	30.3	26.8	24.0	19.7	15.5	14.1	13.7	7.2	5.4	5.2

Table 1 (Continuation)

Equivalent dose rate from LAr EC, Disk, and stainless steel VA for T= 100 d, t= 3 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									78.4	46.7	80.2	179.8	430.1	842.8	1441.8	2036.8	2444.4
5- 10	5	1527.9	1624.4	1807.1	1849.9	1830.7	1758.8	1706.5	1348.6	76.1	44.5	75.2	168.8	403.2	791.1	1379.6	2036.3	2542.7
10- 20	10	616.3	654.8	751.5	817.4	835.4	822.6	803.9	627.8	71.6	41.8	69.1	155.5	371.9	680.9	1164.0	1754.7	2462.4
20- 30	10	309.0	328.4	373.3	419.5	445.5	450.6	444.8	344.7	66.5	41.6	67.7	152.4	325.9	524.1	739.9	924.7	1035.1
30- 40	10	202.4	213.3	237.4	267.7	289.9	299.4	298.7	232.1	61.8	41.6	66.3	144.1	268.8	359.1	426.4	457.4	401.2
40- 50	10	148.2	154.8	169.8	189.6	207.4	217.0	219.0	171.4	57.6	40.7	65.8	131.2	202.5	243.9	260.5	253.7	193.8
50- 65	15	109.4	113.3	122.5	135.0	147.9	156.1	159.3	127.0	52.7	38.3	66.0	106.2	146.1	151.2	152.8	132.8	90.0
65- 85	20	78.6	80.8	85.8	93.3	101.6	107.7	110.6	91.2	45.8	36.8	59.9	76.8	90.9	84.1	82.0	62.9	42.4
85- 110	25	56.4	57.4	60.2	64.5	69.3	73.3	75.7	64.8	36.7	38.5	40.5	54.4	52.6	46.0	44.4	29.1	20.6
110- 135	25	41.7	42.4	44.1	46.4	49.3	51.9	53.4	47.1	32.4	31.9	35.6	36.3	29.3	29.0	24.6	14.2	10.5
135- 165	30	31.5	31.9	32.8	34.2	35.8	37.1	37.5	36.3	28.5	22.8	27.4	25.2	17.3	20.6	14.0	8.0	6.6
165- 195	30	23.2	23.4	23.8	24.6	25.3	25.9	28.4	29.0	25.2	21.0	18.1	18.1	12.8	14.9	8.5	5.4	5.0
195- 225	30	17.3	17.5	17.8	18.4	19.0	19.8	22.5	24.1	21.7	18.8	15.5	12.3	11.4	11.0	5.9	4.5	4.3

Table 1 (Continuation)

Equivalent dose rate from LAr EC, Disk, and stainless steel VA for T= 100 d, t= 5 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									67.7	39.8	68.2	152.5	364.1	717.7	1222.9	1729.2	2133.8
5- 10	5	1301.4	1396.9	1559.4	1602.9	1587.3	1525.5	1478.4	1168.8	65.7	38.1	63.8	141.9	344.0	673.2	1174.1	1729.7	2188.5
10- 20	10	526.1	563.4	649.0	707.0	723.7	712.6	696.0	543.8	62.0	35.9	58.8	132.0	313.9	578.5	979.5	1467.3	2069.9
20- 30	10	266.4	283.5	322.5	362.6	385.2	390.1	385.2	298.4	57.4	35.7	57.6	130.0	276.1	444.4	626.2	786.0	850.9
30- 40	10	174.8	184.1	205.5	231.3	250.8	259.1	258.4	200.7	53.3	35.6	56.4	122.7	228.6	304.3	359.8	386.8	335.6
40- 50	10	128.6	134.2	147.2	164.2	179.1	187.4	189.2	148.4	49.6	34.8	55.9	111.1	170.3	205.4	219.2	215.6	162.4
50- 65	15	94.8	98.3	106.1	117.0	127.7	135.1	137.5	109.8	45.3	32.6	56.1	90.2	122.2	127.8	127.5	110.9	76.4
65- 85	20	68.1	69.8	74.3	80.7	87.8	93.1	95.5	78.8	39.3	31.5	51.1	65.2	77.2	71.0	69.3	53.2	36.2
85- 110	25	48.6	49.6	52.1	55.7	60.0	63.5	65.5	56.0	31.7	33.0	34.6	46.2	44.8	38.8	37.5	24.6	17.7
110- 135	25	36.1	36.7	38.0	40.2	42.7	44.9	46.2	40.7	27.9	27.3	30.4	30.8	24.9	24.5	20.8	12.1	9.0
135- 165	30	27.2	27.6	28.5	29.6	30.9	32.2	32.5	31.2	24.5	19.4	23.3	21.5	14.7	17.4	11.9	6.8	5.7
165- 195	30	20.1	20.2	20.7	21.3	21.9	22.5	24.5	25.0	21.4	17.7	15.4	15.3	10.8	12.7	7.2	4.7	4.3
195- 225	30	15.0	15.1	15.4	15.8	16.6	17.2	19.5	20.8	18.4	16.1	13.2	10.4	9.7	9.4	5.1	3.9	3.6

Table 1 (Continuation)

Equivalent dose rate from LAr EC, Disk, and stainless steel VA for T= 100 d, t= 30 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									26.5	15.5	26.8	60.7	144.6	294.6	526.0	765.5	996.5
5- 10	5	567.1	571.9	629.4	641.2	631.0	603.3	582.0	459.0	25.7	14.8	25.0	56.0	135.5	275.0	498.4	743.2	991.6
10- 20	10	225.3	230.6	263.0	283.8	288.4	282.4	274.2	213.7	24.2	14.0	23.0	51.9	125.6	231.8	389.4	561.2	748.8
20- 30	10	109.2	114.5	130.0	145.6	153.7	155.2	151.9	117.5	22.5	14.2	22.7	51.4	110.3	173.2	231.8	274.4	285.3
30- 40	10	70.7	74.0	82.5	92.6	100.1	103.1	102.2	78.9	20.9	14.2	22.1	48.7	87.9	113.0	126.0	129.7	111.1
40- 50	10	51.6	53.5	58.7	65.6	71.5	74.7	75.0	58.5	19.6	13.9	21.8	43.9	64.9	74.5	74.7	70.4	54.1
50- 65	15	37.9	39.1	42.1	46.7	51.0	53.8	54.6	43.3	18.0	12.9	22.4	34.6	45.4	45.5	42.8	36.9	26.3
65- 85	20	27.1	27.8	29.5	32.1	34.8	37.2	37.9	31.2	15.5	12.4	20.2	24.6	28.0	24.9	23.4	18.2	12.9
85- 110	25	19.3	19.6	20.6	22.0	23.8	25.2	26.0	22.2	12.4	13.0	13.0	17.3	16.3	13.5	12.8	8.9	6.6
110- 135	25	14.2	14.4	15.0	15.9	16.9	17.7	18.4	16.1	10.8	10.6	11.6	11.3	9.0	8.4	7.3	4.5	3.5
135- 165	30	10.8	10.9	11.3	11.7	12.2	12.7	12.9	12.4	9.6	7.4	9.0	7.9	5.3	6.1	4.3	2.6	2.3
165- 195	30	7.9	8.0	8.2	8.4	8.6	8.9	9.6	9.8	8.4	6.9	5.8	5.7	3.9	4.4	2.8	1.8	1.7
195- 225	30	5.9	6.0	6.1	6.2	6.4	6.7	7.7	8.2	7.2	6.3	5.1	3.9	3.4	3.3	1.9	1.5	1.4

Table 1 (Continuation)

Equivalent dose rate from LAr EC, Disk, and stainless steel VA for T= 100 d, t= 100 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									12.3	7.4	12.9	29.2	70.2	141.6	246.8	360.9	470.6
5- 10	5	303.4	277.5	297.9	298.4	291.0	277.4	266.9	209.5	11.9	7.1	12.1	27.2	65.9	131.6	238.8	352.9	471.1
10- 20	10	117.6	112.1	125.4	133.2	133.7	130.3	126.1	97.7	11.2	6.7	11.1	25.2	60.6	110.8	186.2	264.9	352.2
20- 30	10	53.8	55.0	61.9	68.6	71.8	71.8	70.1	53.7	10.6	6.7	11.1	24.7	53.1	82.9	112.7	133.5	142.0
30- 40	10	34.0	35.0	38.9	43.5	46.9	48.0	47.1	36.2	9.7	6.8	10.7	23.5	42.5	55.2	62.8	64.9	56.7
40- 50	10	24.4	25.1	27.6	30.8	33.4	34.8	34.7	26.9	9.0	6.6	10.6	21.1	31.4	36.5	36.7	35.3	27.0
50- 65	15	17.9	18.2	19.8	21.8	23.8	25.0	25.4	19.9	8.4	6.2	10.8	16.8	22.0	22.2	21.0	17.9	12.6
65- 85	20	12.7	12.9	13.8	14.9	16.3	17.2	17.6	14.4	7.2	5.9	9.6	11.8	13.6	12.0	11.2	8.7	6.2
85- 110	25	9.0	9.1	9.6	10.4	11.1	11.8	12.1	10.2	5.8	6.3	6.3	8.2	7.8	6.6	6.1	4.2	3.1
110- 135	25	6.7	6.7	7.0	7.4	7.8	8.3	8.6	7.5	5.2	5.1	5.5	5.4	4.3	4.0	3.4	2.1	1.6
135- 165	30	5.0	5.1	5.2	5.5	5.7	6.0	6.0	5.8	4.7	3.6	4.2	3.8	2.5	2.9	2.0	1.2	1.1
165- 195	30	3.7	3.7	3.8	4.0	4.1	4.1	4.5	4.6	4.0	3.3	2.7	2.7	1.8	2.0	1.2	0.9	0.8
195- 225	30	2.6	2.6	2.7	2.8	2.8	3.0	3.5	3.9	3.3	3.1	2.3	1.9	1.6	1.5	0.9	0.6	0.6

Table 1 (Continuation)

Equivalent dose rate from LAr EC, Disk, and stainless steel VA for T= 10 y, t= 1 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									106.1	66.7	116.3	262.2	629.6	1231.9	2123.7	3053.2	3796.0
5- 10	5	2700.8	2371.2	2509.7	2498.7	2440.8	2333.9	2257.6	1780.5	103.1	63.6	109.3	245.2	595.0	1172.8	2056.6	2994.1	3844.2
10- 20	10	1026.5	959.0	1064.3	1122.8	1126.3	1097.7	1066.2	830.4	96.9	59.6	100.2	227.4	544.6	1004.3	1690.5	2531.4	3499.5
20- 30	10	456.3	464.5	524.8	580.7	606.9	606.4	593.1	457.6	90.3	59.5	98.1	223.7	479.1	763.3	1070.2	1327.3	1477.1
30- 40	10	286.2	294.8	329.3	369.0	395.6	406.0	399.9	309.0	84.3	59.4	96.1	210.3	392.0	520.8	607.5	656.2	570.7
40- 50	10	204.5	211.4	232.8	260.7	283.2	294.4	294.8	228.9	78.9	58.2	94.8	190.1	292.2	349.1	365.0	350.2	268.0
50- 65	15	149.5	153.6	167.0	184.6	201.9	212.1	215.0	170.1	72.4	54.6	95.8	152.9	208.3	214.5	211.3	180.4	121.7
65- 85	20	106.6	108.8	116.5	126.6	138.3	146.5	149.4	123.2	62.9	52.5	86.8	110.1	129.0	118.3	113.5	86.2	58.1
85- 110	25	75.9	77.0	81.3	87.1	94.1	99.6	103.0	88.2	50.1	55.0	57.9	77.4	74.1	63.9	61.2	40.2	28.5
110- 135	25	55.9	56.7	59.3	62.8	66.9	70.7	72.7	63.9	44.8	45.3	50.7	51.2	40.9	39.9	33.7	19.5	14.4
135- 165	30	42.4	42.7	44.3	46.4	48.3	50.3	50.8	49.2	40.0	31.5	38.9	35.6	23.9	28.4	19.3	10.9	8.9
165- 195	30	31.0	31.3	31.9	33.1	34.1	34.8	38.5	39.8	34.7	29.7	25.1	25.1	17.5	20.5	11.5	7.2	6.6
195- 225	30	22.9	23.0	23.6	24.5	25.5	26.4	30.8	33.6	29.6	26.8	21.7	17.0	15.4	14.9	8.0	5.8	5.6

Table 1 (Continuation)

Equivalent dose rate from LAr EC, Disk, and stainless steel VA for T= 10 y, t= 3 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									87.9	53.1	90.7	204.2	485.4	957.4	1645.5	2258.4	2868.0
5- 10	5	2017.1	1915.6	2072.9	2088.0	2051.4	1966.4	1902.1	1501.4	85.5	50.6	85.3	190.2	458.7	890.7	1569.9	2259.4	2870.0
10- 20	10	790.0	772.8	871.3	929.9	941.4	920.9	897.2	699.7	80.4	47.4	78.6	175.9	421.0	770.0	1303.4	1943.2	2772.5
20- 30	10	368.8	380.8	431.1	479.8	504.9	507.5	497.9	384.8	74.8	47.3	76.9	173.4	368.4	592.9	832.5	1032.4	1163.1
30- 40	10	235.4	244.0	272.0	305.3	328.8	338.4	335.2	259.3	69.6	47.3	75.3	164.5	304.9	406.7	482.0	517.2	450.5
40- 50	10	169.9	176.4	193.3	216.2	235.4	245.0	246.2	191.6	64.9	46.2	74.6	148.1	229.1	274.5	292.2	284.4	216.5
50- 65	15	124.6	128.1	138.8	153.2	167.7	176.7	179.4	142.3	59.4	43.3	74.9	119.9	163.0	169.8	168.9	148.4	101.6
65- 85	20	88.9	90.8	96.9	105.4	114.8	121.8	124.3	102.5	51.4	41.8	68.1	86.9	101.7	94.5	92.4	70.8	48.1
85- 110	25	63.3	64.5	67.8	72.5	78.3	82.9	85.5	73.0	41.3	43.6	46.1	61.5	59.3	51.8	49.6	32.9	23.4
110- 135	25	46.7	47.3	49.4	52.3	55.4	58.6	60.3	52.9	36.7	36.2	40.2	40.9	33.0	32.5	27.6	16.1	12.1
135- 165	30	35.3	35.7	36.9	38.5	40.1	41.9	42.2	40.9	32.4	25.5	31.1	28.5	19.6	23.1	15.8	9.1	7.5
165- 195	30	26.0	26.2	26.7	27.6	28.3	29.1	31.9	32.7	28.3	23.7	20.4	20.3	14.4	16.8	9.6	6.2	5.7
195- 225	30	19.3	19.4	19.9	20.6	21.4	22.2	25.4	27.3	24.3	21.4	17.5	13.9	12.7	12.3	6.6	5.0	4.8

Table 1 (Continuation)

Equivalent dose rate from LAr EC, Disk, and stainless steel VA for T= 10 y, t= 5 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									77.1	46.1	78.8	177.4	421.2	830.1	1390.1	1950.8	2457.4
5- 10	5	1787.0	1687.6	1824.9	1840.3	1804.3	1728.5	1672.4	1320.4	75.0	43.9	73.9	164.4	397.6	776.6	1363.4	1952.2	2557.3
10- 20	10	699.8	681.3	767.5	820.1	828.3	810.9	788.6	614.9	70.5	41.2	68.1	152.9	364.3	666.6	1122.9	1700.6	2360.5
20- 30	10	325.4	335.8	379.6	422.6	444.3	446.2	437.7	338.2	65.5	41.1	66.6	150.4	319.7	510.9	717.5	890.3	982.5
30- 40	10	207.8	214.8	239.9	269.1	289.4	297.6	294.6	227.8	60.8	41.1	65.1	141.4	262.7	350.5	411.6	441.1	387.3
40- 50	10	149.9	155.2	170.3	190.2	207.0	215.6	216.5	168.5	56.9	40.2	64.5	128.2	196.6	236.1	250.7	243.0	188.0
50- 65	15	109.6	112.8	122.3	135.0	147.7	155.1	157.8	125.0	51.9	37.7	65.1	104.0	141.6	146.8	146.3	126.9	87.4
65- 85	20	78.3	80.0	85.2	92.7	101.0	107.0	109.5	90.2	45.1	36.4	59.0	75.0	88.9	81.4	79.1	61.1	41.5
85- 110	25	55.7	56.6	59.6	63.8	68.9	72.8	75.1	64.2	36.1	38.0	39.8	53.1	51.2	44.6	42.8	28.6	20.5
110- 135	25	41.0	41.6	43.4	46.0	48.8	51.5	53.0	46.4	32.1	31.4	34.9	35.3	28.6	28.1	23.7	14.0	10.6
135- 165	30	30.9	31.2	32.3	33.7	35.2	36.8	37.2	35.8	28.4	22.3	26.8	24.8	16.8	19.9	13.5	7.9	6.6
165- 195	30	22.7	23.0	23.5	24.3	24.9	25.6	28.0	28.8	24.8	20.8	17.7	17.6	12.5	14.5	8.5	5.5	4.9
195- 225	30	16.9	17.0	17.4	18.0	18.8	19.5	22.2	23.9	21.2	18.6	15.2	12.0	11.1	10.5	5.8	4.3	4.2

Table 1 (Continuation)

Equivalent dose rate from LAr EC, Disk, and stainless steel VA for T= 10 y, t= 30 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									35.1	21.1	36.3	81.9	197.0	396.1	700.2	1005.8	1348.7
5- 10	5	1039.9	845.3	876.8	861.2	833.5	793.6	762.7	599.9	34.1	20.2	34.0	76.4	185.1	366.6	664.5	984.1	1350.5
10- 20	10	390.1	342.1	374.7	389.7	386.5	373.9	360.8	279.9	32.3	19.0	31.4	70.6	169.6	312.3	523.0	757.5	1006.8
20- 30	10	165.8	163.7	184.0	202.2	209.2	207.6	201.0	154.3	30.1	19.2	30.8	69.8	148.6	233.8	317.4	378.6	396.3
30- 40	10	101.6	102.9	114.7	128.0	136.6	139.3	136.0	104.2	28.1	19.3	30.1	66.2	120.4	153.6	174.8	182.2	157.6
40- 50	10	71.4	73.2	80.7	90.1	97.5	100.8	100.2	77.3	26.4	18.8	29.6	59.5	88.6	102.2	103.4	98.6	75.5
50- 65	15	51.6	52.9	57.5	63.5	69.3	72.7	73.3	57.5	24.1	17.3	30.2	47.2	62.4	62.7	59.5	51.6	36.1
65- 85	20	36.6	37.1	39.7	43.3	47.2	50.1	50.8	41.6	20.9	16.7	27.4	33.6	38.6	34.4	32.6	25.5	18.1
85- 110	25	25.9	26.0	27.7	29.6	32.0	34.0	35.0	29.8	16.6	17.7	17.8	23.6	22.2	18.8	17.8	12.4	9.3
110- 135	25	18.8	19.0	20.1	21.2	22.4	24.1	24.6	21.5	14.9	14.4	15.8	15.6	12.5	11.8	10.2	6.3	5.1
135- 165	30	14.2	14.3	14.8	15.7	16.2	17.0	17.1	16.5	13.2	10.1	12.0	10.9	7.3	8.3	5.9	3.7	3.2
165- 195	30	10.5	10.5	10.8	11.2	11.4	11.8	13.0	13.3	11.4	9.6	7.9	7.7	5.3	6.1	3.7	2.6	2.4
195- 225	30	7.7	7.8	8.0	8.3	8.6	8.9	10.2	11.1	9.5	8.6	6.9	5.4	4.7	4.4	2.6	2.0	1.9

Table 1 (Continuation)

Equivalent dose rate from LAr EC, Disk, and stainless steel VA for T= 10 y, t= 100 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									19.2	12.0	20.7	46.9	111.3	221.4	385.8	557.3	719.1
5- 10	5	726.6	506.2	498.9	471.3	447.8	422.9	404.5	317.0	18.6	11.4	19.3	43.4	104.7	207.4	368.5	541.0	715.2
10- 20	10	264.2	205.4	217.3	218.3	210.6	200.9	192.0	148.2	17.4	10.8	17.9	40.4	95.8	176.1	291.0	423.8	564.8
20- 30	10	101.1	95.2	105.8	114.3	115.7	112.7	107.8	81.9	16.3	10.8	17.7	39.6	84.2	132.3	180.1	218.8	233.8
30- 40	10	59.2	58.2	64.9	72.1	75.8	76.2	73.2	55.7	15.4	10.8	17.1	37.4	67.9	88.9	102.2	106.3	93.8
40- 50	10	40.6	40.7	45.2	50.3	54.1	55.3	54.4	41.4	14.4	10.6	16.9	33.7	50.7	59.1	60.6	58.2	45.2
50- 65	15	28.8	29.0	31.9	35.2	38.5	40.0	39.9	30.9	13.3	9.8	17.1	26.9	35.7	36.3	34.5	30.0	20.7
65- 85	20	20.2	20.1	21.8	23.7	26.0	27.5	27.5	22.5	11.5	9.4	15.5	19.3	22.4	19.9	18.8	14.5	10.1
85- 110	25	14.0	14.2	15.2	16.1	17.6	18.6	19.1	16.2	9.1	9.9	10.2	13.6	12.8	10.8	10.1	6.9	5.2
110- 135	25	10.2	10.3	10.9	11.6	12.3	13.1	13.5	11.8	8.3	8.1	9.0	8.9	7.2	6.7	5.7	3.6	2.7
135- 165	30	7.6	7.7	8.0	8.5	8.8	9.4	9.4	9.1	7.4	5.6	6.9	6.2	4.2	4.7	3.3	2.1	1.7
165- 195	30	5.4	5.5	5.8	6.2	6.2	6.4	7.1	7.5	6.4	5.4	4.5	4.3	3.0	3.5	2.1	1.4	1.2
195- 225	30	4.1	4.2	4.2	4.5	4.7	4.8	5.6	6.2	5.1	4.9	4.0	3.0	2.5	2.4	1.3	1.0	1.0

Table 2

Equivalent dose rate from LAr EC, Disk, and aluminum VA for T= 100 d, t=1d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									24.9	44.3	96.8	231.3	566.9	1111.4	1913.9	2728.2	3444.1
5- 10	5	748.7	373.8	296.3	231.6	196.9	182.1	169.6	122.8	23.8	41.5	90.1	214.9	536.5	1058.5	1856.9	2722.6	3460.7
10- 20	10	245.9	153.4	141.3	120.7	102.3	92.1	84.4	62.5	21.9	37.9	81.7	199.6	489.6	904.7	1536.3	2280.7	3180.6
20- 30	10	75.9	63.6	68.1	67.7	62.4	56.8	51.3	39.4	21.7	38.0	79.7	196.2	428.0	688.6	974.7	1196.3	1344.1
30- 40	10	39.6	36.6	40.7	43.6	43.2	41.7	37.7	30.4	21.9	38.2	78.0	183.9	349.2	467.9	550.8	591.5	510.9
40- 50	10	26.1	25.4	28.4	31.3	32.4	32.0	30.8	25.6	22.2	37.3	77.2	165.9	259.6	309.6	327.2	315.8	235.2
50- 65	15	19.2	18.8	20.8	22.8	24.5	25.0	24.9	22.2	22.0	34.3	77.9	132.5	184.9	189.4	184.7	161.3	105.9
65- 85	20	14.5	14.4	15.6	16.8	18.4	19.3	19.6	19.5	19.9	33.2	69.9	93.3	111.7	102.2	98.4	74.1	48.0
85- 110	25	11.5	11.4	12.2	12.8	14.1	14.9	16.0	16.4	15.0	36.3	44.2	63.8	62.0	53.0	50.9	31.8	20.8
110- 135	25	9.5	9.5	10.1	10.6	11.3	12.2	12.7	13.1	15.6	28.6	37.9	40.3	32.0	31.5	26.1	12.9	8.4
135- 165	30	8.0	7.9	8.2	8.6	8.6	8.9	8.6	11.9	15.8	17.4	27.9	26.4	16.7	21.1	12.9	5.5	3.7
165- 195	30	5.2	5.2	5.1	5.3	5.0	4.8	7.5	11.8	15.1	16.8	16.1	17.2	11.2	14.2	6.2	2.5	1.8
195- 225	30	2.9	2.9	2.9	3.1	3.3	3.8	7.3	11.6	13.2	15.3	13.4	10.3	9.5	9.4	3.1	1.4	1.2

Table 2 (Continuation)

Equivalent dose rate from LAr EC, Disk, and aluminum VA for T= 100 d, t= 3 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									16.2	32.7	72.4	173.9	425.1	838.2	1437.4	2032.6	2440.2
5- 10	5	229.9	115.0	91.8	72.2	61.6	57.7	54.1	41.3	15.4	30.6	67.4	162.9	398.2	786.5	1375.2	2032.1	2538.5
10- 20	10	78.5	47.9	44.4	38.6	33.1	30.2	29.0	22.9	14.0	27.9	61.3	149.6	366.9	676.3	1159.7	1750.5	2458.2
20- 30	10	25.8	21.3	22.6	22.6	21.3	19.7	18.4	16.1	14.0	27.9	59.9	146.6	320.9	519.5	735.6	920.5	1030.9
30- 40	10	14.5	13.4	14.5	15.5	15.5	15.2	14.5	13.6	14.3	28.0	58.6	138.3	263.8	354.5	422.1	453.2	397.0
40- 50	10	10.3	10.0	10.8	11.7	12.3	12.2	12.5	12.3	14.7	27.2	58.1	125.4	197.6	239.4	256.2	249.5	189.6
50- 65	15	8.2	8.0	8.6	9.3	10.0	10.3	11.0	11.4	14.7	25.2	58.4	100.5	141.2	146.7	148.5	128.6	85.8
65- 85	20	6.9	6.7	7.2	7.7	8.3	8.9	9.5	10.7	13.5	24.3	52.5	71.2	86.1	79.6	77.8	58.8	38.3
85- 110	25	6.1	6.0	6.2	6.6	7.1	7.5	8.2	9.5	10.2	26.8	33.4	48.8	47.9	41.6	40.2	25.1	16.6
110- 135	25	5.4	5.5	5.7	5.8	6.1	6.6	7.0	7.8	10.7	21.2	28.8	30.9	24.7	24.7	20.5	10.3	6.6
135- 165	30	4.7	4.7	4.8	4.9	5.0	5.0	4.7	7.8	10.9	13.1	21.0	20.1	12.9	16.5	10.1	4.2	2.8
165- 195	30	3.0	3.0	2.9	2.9	2.7	2.5	4.7	7.8	10.8	12.3	12.2	13.2	8.6	11.0	4.7	1.7	1.3
195- 225	30	1.5	1.5	1.6	1.7	1.8	2.1	4.6	7.7	9.8	11.2	9.9	7.7	7.4	7.3	2.3	1.0	0.8

Table 2 (Continuation)

Equivalent dose rate from LAr EC, Disk, and aluminum VA for T= 100 d, t= 5 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									13.7	27.7	61.3	147.3	359.8	713.7	1219.1	1725.5	2130.1
5- 10	5	166.4	83.1	66.6	52.4	44.9	41.9	39.7	30.7	12.9	26.0	57.0	136.7	339.7	669.2	1170.3	1726.0	2184.8
10- 20	10	57.2	34.4	32.4	28.2	24.2	22.1	21.0	17.4	11.8	23.8	52.0	126.9	309.6	574.5	975.7	1463.6	2066.2
20- 30	10	19.3	15.8	16.7	16.7	15.7	14.5	13.8	12.4	11.7	23.7	50.8	124.9	271.8	440.4	622.4	782.3	847.2
30- 40	10	11.1	10.0	10.9	11.7	11.7	11.4	10.9	10.6	11.9	23.8	49.6	117.6	224.3	300.4	356.1	383.2	332.0
40- 50	10	8.1	7.7	8.4	9.0	9.4	9.4	9.6	9.9	12.3	23.2	49.2	106.0	166.0	201.5	215.5	212.0	158.8
50- 65	15	6.5	6.3	6.8	7.3	7.7	8.1	8.4	9.2	12.3	21.2	49.5	85.2	118.0	123.9	123.8	107.3	72.8
65- 85	20	5.6	5.4	5.7	6.2	6.6	7.0	7.4	8.7	11.3	20.6	44.6	60.2	73.0	67.1	65.6	49.6	32.6
85- 110	25	4.8	4.8	5.0	5.4	5.8	6.1	6.7	7.9	8.6	22.8	28.3	41.4	40.7	35.0	33.9	21.1	14.2
110- 135	25	4.4	4.5	4.6	4.9	5.1	5.5	5.8	6.6	9.0	17.9	24.4	26.1	20.9	20.8	17.3	8.7	5.6
135- 165	30	3.8	3.9	4.1	4.1	4.1	4.2	3.9	6.4	9.1	10.9	17.7	17.1	10.9	13.8	8.5	3.5	2.4
165- 195	30	2.5	2.4	2.4	2.4	2.3	2.2	3.9	6.5	9.0	10.3	10.2	11.1	7.2	9.3	4.0	1.5	1.1
195- 225	30	1.2	1.2	1.2	1.2	1.5	1.8	3.9	6.5	8.1	9.4	8.4	6.5	6.3	6.2	2.0	0.9	0.6

Table 2 (Continuation)

Equivalent dose rate from LAr EC, Disk, and aluminum VA for T= 100 d, t= 30 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									5.8	10.8	24.2	58.7	142.9	293.1	524.6	764.1	995.1
5- 10	5	131.3	64.7	51.5	40.4	34.3	31.8	29.7	21.8	5.3	10.1	22.4	54.0	133.8	273.5	497.0	741.8	990.2
10- 20	10	44.9	26.4	24.6	21.2	18.0	16.3	15.0	11.4	4.9	9.3	20.4	49.9	123.9	230.3	388.0	559.8	747.4
20- 30	10	14.2	11.4	12.1	12.0	11.0	10.2	9.3	7.5	4.9	9.5	20.1	49.4	108.6	171.7	230.4	273.0	283.9
30- 40	10	7.5	6.7	7.4	7.8	7.8	7.6	7.0	5.9	5.1	9.6	19.5	46.7	86.2	111.5	124.6	128.3	109.7
40- 50	10	5.2	4.8	5.2	5.8	6.0	6.0	5.9	5.2	5.2	9.4	19.2	41.9	63.3	73.0	73.3	69.0	52.7
50- 65	15	3.8	3.7	3.9	4.4	4.7	4.9	5.0	4.6	5.3	8.5	19.8	32.7	43.8	44.0	41.4	35.5	24.9
65- 85	20	3.0	2.9	3.1	3.4	3.5	4.0	4.0	4.2	4.8	8.2	17.7	22.7	26.4	23.4	22.0	16.8	11.5
85- 110	25	2.4	2.4	2.5	2.7	2.9	3.2	3.4	3.6	3.5	9.1	10.6	15.4	14.7	12.0	11.4	7.6	5.3
110- 135	25	2.1	2.0	2.1	2.3	2.4	2.5	2.8	3.0	3.5	7.1	9.3	9.5	7.5	7.0	5.9	3.2	2.2
135- 165	30	1.7	1.7	1.9	1.9	1.9	1.9	1.8	2.8	3.8	4.1	6.8	6.2	3.8	4.7	3.0	1.3	1.0
165- 195	30	1.1	1.1	1.1	1.2	1.1	1.1	1.7	2.7	3.6	4.0	3.8	4.1	2.5	3.1	1.5	0.6	0.5
195- 225	30	0.7	0.7	0.7	0.7	0.7	0.8	1.6	2.8	3.2	3.7	3.2	2.4	2.1	2.1	0.8	0.4	0.3

Table 2 (Continuation)

Equivalent dose rate from LAr EC, Disk, and aluminum VA for T= 100 d, t= 100 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									3.2	5.4	11.7	28.4	69.5	141.0	246.2	360.4	470.1
5- 10	5	114.4	56.7	45.3	35.5	30.2	28.0	25.9	18.7	3.1	5.1	10.9	26.4	65.2	131.0	238.2	352.4	470.6
10- 20	10	39.2	23.4	21.4	18.4	15.5	14.1	12.8	9.4	2.8	4.7	9.9	24.4	59.9	110.2	185.6	264.4	351.7
20- 30	10	12.4	10.0	10.4	10.2	9.5	8.6	7.8	5.7	2.9	4.7	9.9	23.9	52.4	82.3	112.1	133.0	141.5
30- 40	10	6.4	5.7	6.2	6.5	6.6	6.3	5.6	4.3	2.8	4.8	9.5	22.7	41.9	54.6	62.2	64.4	56.2
40- 50	10	4.2	3.9	4.2	4.7	4.8	4.8	4.6	3.6	2.8	4.7	9.4	20.3	30.8	35.9	36.1	34.8	26.5
50- 65	15	3.1	2.8	3.1	3.4	3.5	3.6	3.6	3.0	2.8	4.3	9.6	16.0	21.4	21.6	20.5	17.4	12.1
65- 85	20	2.2	2.0	2.3	2.4	2.7	2.7	2.7	2.6	2.5	4.1	8.5	11.0	13.0	11.4	10.7	8.2	5.7
85- 110	25	1.7	1.6	1.7	1.9	2.0	2.2	2.3	2.2	2.0	4.6	5.2	7.5	7.2	6.0	5.6	3.7	2.6
110- 135	25	1.3	1.2	1.4	1.5	1.5	1.7	1.8	1.7	2.0	3.5	4.5	4.7	3.7	3.5	2.9	1.6	1.1
135- 165	30	1.1	1.1	1.1	1.2	1.2	1.3	1.2	1.6	2.1	2.1	3.3	3.1	1.9	2.4	1.5	0.7	0.6
165- 195	30	0.7	0.7	0.7	0.8	0.7	0.6	1.0	1.5	1.9	2.0	1.9	2.1	1.3	1.5	0.7	0.4	0.3
195- 225	30	0.3	0.3	0.3	0.3	0.3	0.5	1.0	1.5	1.6	1.9	1.6	1.3	1.1	1.0	0.4	0.1	0.1

Table 2 (Continuation)

Equivalent dose rate from LAr EC, Disk, and aluminum VA for T= 10 y, t= 1 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									30.4	49.7	106.8	255.1	623.6	1226.3	2118.5	3048.1	3790.9
5- 10	5	1181.2	590.4	467.9	366.3	312.3	289.6	268.9	192.2	29.1	46.6	99.8	238.1	589.0	1167.3	2051.4	2989.0	3839.1
10- 20	10	393.6	241.1	222.0	190.0	161.0	144.7	132.2	95.5	26.9	42.7	90.7	220.3	538.6	998.8	1685.3	2526.3	3494.4
20- 30	10	120.9	99.8	106.5	105.4	97.2	88.1	78.9	58.6	26.4	42.7	88.6	216.6	473.2	757.8	1065.0	1322.2	1472.0
30- 40	10	62.1	56.6	62.9	67.3	66.3	64.1	57.2	44.0	26.6	42.9	86.7	203.2	386.1	515.3	602.3	651.2	565.7
40- 50	10	40.1	38.5	43.0	47.5	49.1	48.3	45.9	35.9	26.8	42.0	85.5	183.1	286.3	343.6	359.8	345.2	263.0
50- 65	15	28.4	27.7	30.6	33.8	36.3	36.8	36.3	30.2	26.3	38.7	86.6	145.9	202.5	209.1	206.2	175.4	116.7
65- 85	20	20.8	20.3	22.2	24.0	26.3	27.6	27.5	25.8	23.8	37.3	77.8	103.3	123.2	112.9	108.4	81.3	53.2
85- 110	25	15.6	15.3	16.6	17.7	19.3	20.4	21.6	21.3	18.0	40.8	49.2	70.8	68.5	58.6	56.2	35.4	23.7
110- 135	25	12.4	12.4	13.2	14.1	15.0	16.2	16.8	16.6	18.5	32.2	42.4	44.8	35.4	34.8	28.9	14.8	9.7
135- 165	30	10.1	10.0	10.6	11.2	11.2	11.7	11.3	14.7	18.7	19.8	31.1	29.4	18.6	23.5	14.6	6.3	4.3
165- 195	30	6.7	6.7	6.7	7.0	6.9	6.7	9.8	14.2	17.3	19.2	18.0	19.3	12.5	15.8	7.0	2.8	2.2
195- 225	30	4.0	4.0	4.0	4.4	4.8	5.1	9.1	13.8	15.2	17.5	15.1	11.5	10.7	10.4	3.7	1.6	1.4

Table 2 (Continuation)

Equivalent dose rate from LAr EC, Disk, and aluminum VA for T= 10 y, t= 3 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									21.6	38.2	82.3	198.0	480.2	952.6	1640.9	2253.9	2863.5
5- 10	5	655.3	326.2	260.1	203.9	173.8	161.5	150.5	108.7	20.6	35.7	76.9	184.0	453.5	885.9	1565.3	2254.9	2865.5
10- 20	10	225.0	133.1	123.5	106.1	90.2	81.5	74.7	55.1	19.0	32.6	70.2	169.7	415.8	765.2	1298.8	1938.7	2768.0
20- 30	10	70.3	56.8	60.1	59.3	55.1	50.0	45.2	34.6	18.7	32.6	68.6	167.2	363.2	588.1	827.9	1027.9	1158.6
30- 40	10	36.7	32.9	36.2	38.5	38.0	36.8	33.4	26.5	18.9	32.8	67.0	158.3	299.7	401.9	477.4	512.7	446.0
40- 50	10	23.9	22.8	25.3	27.6	28.6	28.1	27.0	22.2	19.1	31.9	66.4	142.0	223.9	269.8	287.6	280.0	212.1
50- 65	15	17.1	16.6	18.3	20.0	21.6	21.9	21.8	19.2	18.9	29.4	66.8	113.8	157.9	165.1	164.4	144.0	97.2
65- 85	20	12.9	12.5	13.7	14.7	16.0	16.7	17.0	16.8	17.1	28.5	60.2	80.8	96.6	89.9	87.9	66.4	43.7
85- 110	25	10.1	9.9	10.6	11.2	12.3	13.1	13.8	14.2	13.1	31.1	38.5	55.6	54.4	47.1	45.2	28.6	19.1
110- 135	25	8.2	8.1	8.7	9.2	9.7	10.6	11.0	11.2	13.7	24.7	32.9	35.2	28.2	28.0	23.3	11.9	7.9
135- 165	30	6.8	6.8	7.2	7.5	7.5	7.8	7.4	10.5	13.7	15.3	24.2	23.1	14.9	18.7	11.7	5.1	3.5
165- 195	30	4.6	4.5	4.5	4.6	4.4	4.3	6.6	10.2	13.0	14.5	14.1	15.2	9.9	12.6	5.6	2.3	1.8
195- 225	30	2.5	2.5	2.6	2.9	3.1	3.5	6.4	9.9	11.6	13.2	11.6	9.1	8.5	8.4	2.8	1.3	1.1

Table 2 (Continuation)

Equivalent dose rate from LAr EC, Disk, and aluminum VA for T= 10 y, t= 5 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									18.9	33.0	71.5	171.9	416.6	825.8	1386.1	1946.9	2453.5
5- 10	5	594.8	293.5	235.1	183.3	156.2	145.2	134.9	97.5	18.0	30.9	66.6	158.9	393.0	772.3	1359.4	1948.3	2553.4
10- 20	10	203.9	120.2	111.5	95.4	81.1	73.0	67.0	49.2	16.6	28.2	60.8	147.4	359.8	662.3	1118.9	1696.7	2356.6
20- 30	10	63.5	51.2	54.2	53.5	49.4	45.0	40.5	30.9	16.4	28.2	59.3	144.9	315.2	506.6	713.5	886.4	978.6
30- 40	10	33.3	29.5	32.5	34.7	34.1	32.9	29.7	23.7	16.4	28.4	57.8	136.0	258.2	346.3	407.6	437.2	383.4
40- 50	10	21.8	20.4	22.7	24.8	25.6	25.1	24.2	19.8	16.7	27.6	57.2	122.8	192.0	231.9	246.7	239.1	184.1
50- 65	15	15.5	14.9	16.5	18.1	19.3	19.5	19.5	17.1	16.4	25.5	57.9	98.6	137.0	142.6	142.3	123.1	83.6
65- 85	20	11.6	11.2	12.1	13.1	14.2	14.9	15.2	15.0	15.0	24.7	52.0	69.7	84.4	77.3	75.2	57.3	37.7
85- 110	25	9.0	8.8	9.4	10.0	10.9	11.5	12.2	12.5	11.3	27.0	33.1	48.0	46.8	40.5	39.0	24.9	16.8
110- 135	25	7.3	7.2	7.7	8.2	8.7	9.3	9.7	9.8	11.8	21.5	28.5	30.4	24.3	24.2	20.0	10.4	7.0
135- 165	30	5.9	6.0	6.1	6.4	6.5	6.9	6.6	9.2	11.9	13.3	20.9	20.1	12.7	16.1	9.9	4.4	3.1
165- 195	30	3.9	3.9	4.0	4.1	3.9	3.8	5.8	9.0	11.4	12.7	12.1	13.1	8.6	10.9	5.0	2.1	1.5
195- 225	30	2.2	2.2	2.3	2.4	2.8	3.0	5.5	8.6	10.1	11.4	10.1	7.8	7.4	7.1	2.5	1.0	0.9

Table 2 (Continuation)

Equivalent dose rate from LAr EC, Disk, and aluminum VA for T= 10 y, t= 30 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									10.7	15.6	33.3	79.6	195.0	394.3	698.5	1004.2	1347.1
5- 10	5	555.4	273.6	218.5	171.3	146.0	135.3	125.6	88.7	10.2	14.7	31.0	74.1	183.1	364.8	662.8	982.5	1348.9
10- 20	10	187.9	111.7	103.0	88.3	74.8	67.2	61.1	43.3	9.7	13.5	28.4	68.3	167.6	310.5	521.3	755.9	1005.2
20- 30	10	58.0	46.6	49.3	48.7	44.8	40.5	36.0	25.9	9.5	13.7	27.8	67.5	146.6	232.0	315.7	377.0	394.7
30- 40	10	29.7	26.3	29.0	30.8	30.3	29.0	25.7	18.9	9.5	13.9	27.1	63.9	118.4	151.8	173.1	180.6	156.0
40- 50	10	18.6	17.5	19.5	21.5	22.0	21.6	20.3	15.2	9.5	13.5	26.6	57.3	86.7	100.4	101.7	97.0	73.9
50- 65	15	12.6	12.3	13.7	14.9	16.0	16.2	15.8	12.4	9.2	12.3	27.3	45.0	60.5	60.9	57.8	50.0	34.5
65- 85	20	9.0	8.6	9.4	10.3	11.2	11.9	11.6	10.3	8.3	11.8	24.5	31.4	36.7	32.7	31.0	23.9	16.5
85- 110	25	6.5	6.2	6.8	7.3	8.0	8.5	8.8	8.2	6.2	13.2	15.1	21.5	20.4	17.1	16.2	10.8	7.7
110- 135	25	4.8	4.8	5.3	5.5	5.8	6.5	6.6	6.3	6.4	10.2	13.2	13.6	10.7	10.2	8.6	4.8	3.6
135- 165	30	3.8	3.9	4.0	4.3	4.3	4.6	4.4	5.5	6.4	6.4	9.5	8.9	5.6	6.7	4.4	2.2	1.7
165- 195	30	2.6	2.6	2.7	2.8	2.7	2.7	3.8	5.1	5.8	6.2	5.6	5.8	3.7	4.6	2.3	1.1	0.9
195- 225	30	1.6	1.6	1.8	1.9	1.9	2.0	3.3	4.7	4.9	5.6	4.8	3.6	3.2	3.0	1.1	0.6	0.5

Table 2 (Continuation)

Equivalent dose rate from LAr EC, Disk, and aluminum VA for T= 10 y, t= 100 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									7.9	9.5	19.3	45.8	110.4	220.6	385.0	556.6	718.4
5- 10	5	517.6	254.2	204.0	159.8	136.1	126.1	116.8	82.0	7.5	8.9	17.9	42.3	103.8	206.6	367.7	540.3	714.5
10- 20	10	175.6	103.6	95.9	82.2	69.4	62.2	56.4	39.5	6.9	8.3	16.5	39.3	94.9	175.3	290.2	423.1	564.1
20- 30	10	53.5	43.2	45.7	45.1	41.3	37.2	32.9	23.0	6.8	8.3	16.3	38.6	83.3	131.5	179.3	218.1	233.1
30- 40	10	27.2	24.0	26.6	28.3	27.7	26.4	23.3	16.6	6.8	8.3	15.7	36.4	67.0	88.1	101.4	105.6	93.1
40- 50	10	16.9	15.8	17.8	19.4	20.1	19.5	18.1	13.0	6.7	8.1	15.5	32.7	49.8	58.3	59.8	57.5	44.5
50- 65	15	11.4	10.8	12.2	13.4	14.4	14.4	13.8	10.3	6.5	7.4	15.8	25.9	34.8	35.5	33.8	29.4	20.1
65- 85	20	7.8	7.3	8.1	8.9	9.8	10.1	9.8	8.2	5.7	7.2	14.2	18.3	21.5	19.1	18.1	13.9	9.5
85- 110	25	5.3	5.2	5.8	6.0	6.7	7.1	7.2	6.4	4.3	7.8	9.0	12.6	11.9	10.0	9.5	6.3	4.6
110- 135	25	3.9	3.9	4.2	4.5	4.8	5.2	5.2	4.8	4.4	6.2	7.7	7.9	6.4	6.0	5.1	3.0	2.1
135- 165	30	2.9	2.9	3.1	3.4	3.4	3.7	3.7	4.0	4.3	3.9	5.7	5.2	3.4	4.1	2.6	1.4	1.0
165- 195	30	2.0	2.0	2.1	2.3	2.2	2.2	2.9	3.7	3.8	3.8	3.4	3.4	2.3	2.8	1.4	0.8	0.6
195- 225	30	1.4	1.4	1.4	1.6	1.6	1.7	2.5	3.3	3.1	3.5	3.0	2.2	1.9	1.8	0.7	0.4	0.4

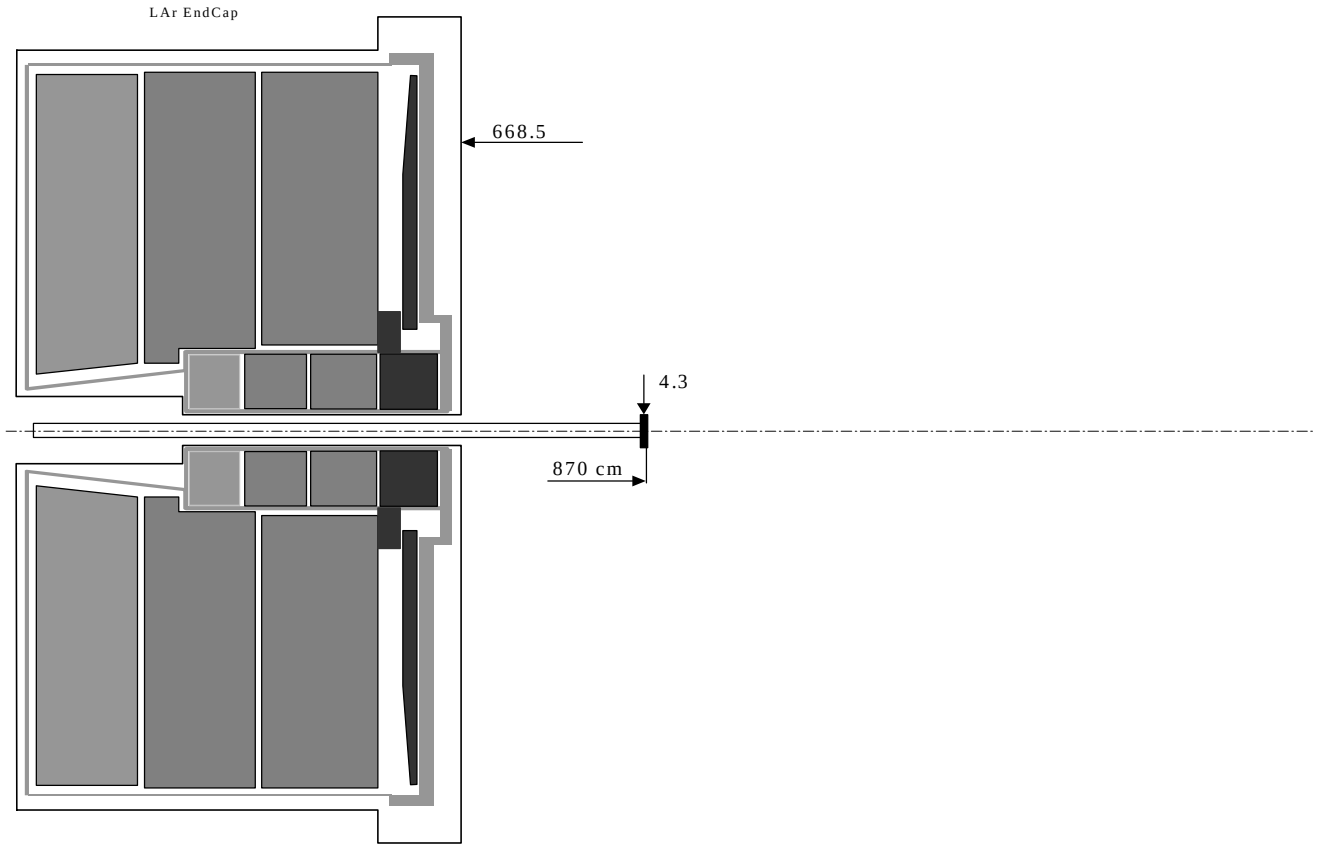

Fig.2. Access scenario to the back side of LAr EC.

Table 3

Equivalent dose rate from LAr EC and stainless steel VA for T= 100 d, t=1d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									77.4	17.9	10.1	7.5	6.3	5.8	5.5	5.4	5.4
5- 10	5	2204.3	2070.1	2235.1	2250.5	2211.2	2116.3	2048.6	1615.9	75.7	17.7	9.9	7.5	6.3	5.7	5.4	5.3	5.3
10- 20	10	847.4	834.3	938.9	1001.9	1012.8	990.1	963.6	748.6	71.6	17.7	9.8	7.5	6.3	5.8	5.4	5.3	5.3
20- 30	10	391.6	407.0	461.5	514.3	541.2	543.2	532.5	407.5	65.5	17.5	9.8	7.5	6.3	5.8	5.5	5.4	5.4
30- 40	10	248.2	259.0	289.4	325.5	350.8	360.7	356.1	271.7	59.3	17.3	9.8	7.4	6.3	5.8	5.5	5.4	5.4
40- 50	10	177.8	185.2	204.1	228.7	249.3	259.4	259.9	198.1	53.8	17.0	9.8	7.4	6.2	5.8	5.5	5.4	5.4
50- 65	15	129.1	133.5	144.9	160.5	175.8	184.9	187.1	144.3	47.7	16.6	9.6	7.3	6.2	5.7	5.5	5.3	5.3
65- 85	20	90.8	93.0	99.4	108.4	118.4	125.5	127.5	101.0	40.4	15.9	9.4	7.2	6.1	5.7	5.4	5.3	5.3
85- 110	25	63.0	64.3	67.9	72.8	78.6	83.1	85.4	69.7	33.2	14.8	9.1	7.0	6.0	5.6	5.3	5.2	5.2
110- 135	25	45.2	46.0	48.0	50.9	54.2	57.1	58.6	49.3	27.6	13.5	8.6	6.8	5.8	5.4	5.2	5.1	5.1
135- 165	30	33.4	33.8	34.9	36.7	38.5	40.4	41.2	36.0	22.5	12.2	8.0	6.4	5.6	5.3	5.0	4.9	4.9
165- 195	30	25.0	25.3	26.0	27.2	28.2	29.1	29.9	26.8	18.0	11.3	7.5	5.9	5.3	4.9	4.7	4.6	4.6
195- 225	30	19.5	19.6	20.1	20.8	21.5	21.9	22.7	20.7	14.8	9.8	7.3	5.7	4.9	4.6	4.4	4.3	4.3

Table 3 (Continuation)

Equivalent dose rate from LAr EC and stainless steel VA for T= 100 d, t= 3 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									63.9	14.5	8.1	6.2	5.2	4.8	4.6	4.4	4.4
5- 10	5	1524.0	1620.5	1803.1	1845.7	1826.3	1753.9	1700.9	1340.7	62.4	14.4	8.1	6.2	5.2	4.8	4.5	4.3	4.3
10- 20	10	612.9	651.3	748.0	813.7	831.5	818.4	798.3	620.7	59.2	14.4	8.1	6.2	5.2	4.8	4.4	4.3	4.3
20- 30	10	305.5	324.9	369.7	415.8	441.5	446.3	439.8	337.6	54.0	14.2	8.1	6.1	5.2	4.8	4.5	4.4	4.4
30- 40	10	198.9	209.7	233.7	263.9	285.8	295.0	293.5	224.7	48.9	14.1	8.0	6.1	5.2	4.8	4.5	4.4	4.4
40- 50	10	144.5	151.0	166.0	185.6	203.1	212.4	213.6	163.7	44.2	13.9	8.0	6.1	5.1	4.7	4.5	4.4	4.4
50- 65	15	105.5	109.4	118.5	130.8	143.4	151.3	153.6	119.0	39.2	13.5	7.9	6.0	5.1	4.7	4.5	4.4	4.4
65- 85	20	74.5	76.7	81.6	88.9	96.9	102.6	104.7	83.1	33.3	12.9	7.7	5.9	5.0	4.7	4.4	4.3	4.3
85- 110	25	52.1	53.1	55.8	59.9	64.5	68.1	69.8	57.2	27.3	12.1	7.4	5.8	4.9	4.6	4.4	4.2	4.2
110- 135	25	37.4	38.1	39.7	41.9	44.6	46.9	48.0	40.5	22.5	11.1	7.1	5.6	4.8	4.5	4.3	4.1	4.1
135- 165	30	27.6	28.0	28.9	30.2	31.8	33.2	33.9	29.5	18.3	10.1	6.6	5.2	4.6	4.3	4.1	4.0	4.0
165- 195	30	20.8	21.0	21.5	22.4	23.3	24.1	24.6	22.0	14.9	9.1	6.1	5.0	4.3	4.0	3.9	3.8	3.8
195- 225	30	16.2	16.4	16.7	17.3	17.8	18.2	18.5	16.9	12.3	7.9	5.8	4.7	4.1	3.8	3.7	3.6	3.6

Table 3 (Continuation)

Equivalent dose rate from LAr EC and stainless steel VA for T= 100 d, t= 5 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									55.3	12.5	7.1	5.4	4.4	4.1	3.9	3.8	3.8
5- 10	5	1298.1	1393.6	1556.0	1599.4	1583.5	1521.4	1473.6	1162.1	54.1	12.5	7.0	5.3	4.4	4.1	3.9	3.8	3.8
10- 20	10	523.2	560.5	646.0	703.9	720.4	709.0	691.7	537.7	51.4	12.5	7.0	5.2	4.4	4.1	3.9	3.8	3.8
20- 30	10	263.4	280.5	319.5	359.4	381.8	386.5	381.0	292.4	46.8	12.4	7.0	5.3	4.4	4.1	3.9	3.8	3.8
30- 40	10	171.8	181.1	202.4	228.0	247.3	255.4	254.1	194.5	42.4	12.2	7.0	5.3	4.4	4.0	3.8	3.7	3.7
40- 50	10	125.4	131.0	143.9	160.8	175.4	183.5	184.7	141.9	38.3	12.0	6.9	5.3	4.4	4.0	3.8	3.7	3.7
50- 65	15	91.5	94.9	102.6	113.4	123.9	131.0	132.8	103.1	33.9	11.7	6.8	5.2	4.3	4.0	3.8	3.7	3.7
65- 85	20	64.6	66.3	70.7	76.9	83.8	88.8	90.6	71.9	28.7	11.2	6.7	5.2	4.4	4.0	3.8	3.7	3.7
85- 110	25	45.0	46.0	48.4	51.8	55.9	59.1	60.5	49.5	23.7	10.5	6.5	5.0	4.3	3.9	3.7	3.6	3.6
110- 135	25	32.5	33.1	34.3	36.3	38.7	40.6	41.6	35.1	19.5	9.6	6.2	4.9	4.1	3.8	3.6	3.5	3.5
135- 165	30	23.9	24.3	25.1	26.2	27.5	28.8	29.4	25.5	15.9	8.7	5.7	4.5	3.9	3.7	3.5	3.4	3.4
165- 195	30	18.0	18.2	18.7	19.4	20.2	20.9	21.2	19.0	12.7	7.7	5.3	4.3	3.7	3.5	3.3	3.3	3.3
195- 225	30	14.1	14.2	14.5	14.9	15.5	15.8	16.1	14.7	10.5	6.9	5.0	4.0	3.5	3.3	3.2	3.1	3.1

Table 3 (Continuation)

Equivalent dose rate from LAr EC and stainless steel VA for T= 100 d, t= 30 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									21.8	5.0	2.8	2.1	1.8	1.6	1.5	1.5	1.5
5- 10	5	565.8	570.6	628.1	639.8	629.6	601.8	580.2	456.5	21.3	5.0	2.7	2.1	1.8	1.6	1.5	1.5	1.5
10- 20	10	224.3	229.5	261.9	282.7	287.1	281.0	272.6	211.4	20.2	5.0	2.7	2.1	1.8	1.6	1.5	1.5	1.5
20- 30	10	108.1	113.4	128.9	144.4	152.5	153.8	150.3	115.1	18.4	5.0	2.7	2.1	1.8	1.6	1.5	1.5	1.5
30- 40	10	69.6	72.9	81.3	91.4	98.8	101.6	100.5	76.5	16.6	4.9	2.8	2.1	1.8	1.6	1.5	1.5	1.5
40- 50	10	50.4	52.3	57.5	64.3	70.1	73.1	73.2	56.0	15.1	4.8	2.8	2.1	1.7	1.6	1.5	1.5	1.5
50- 65	15	36.6	37.8	40.8	45.3	49.5	52.1	52.7	40.7	13.4	4.7	2.8	2.0	1.7	1.6	1.5	1.5	1.5
65- 85	20	25.8	26.4	28.1	30.6	33.3	35.4	35.9	28.5	11.3	4.5	2.7	2.0	1.7	1.6	1.5	1.5	1.5
85- 110	25	17.9	18.2	19.2	20.5	22.2	23.4	24.0	19.6	9.4	4.2	2.6	2.0	1.7	1.6	1.5	1.4	1.4
110- 135	25	12.8	13.0	13.6	14.4	15.3	16.1	16.5	13.8	7.7	3.7	2.4	1.9	1.6	1.5	1.5	1.4	1.4
135- 165	30	9.5	9.6	10.0	10.4	10.9	11.4	11.7	10.1	6.2	3.4	2.3	1.8	1.6	1.5	1.4	1.4	1.4
165- 195	30	7.1	7.2	7.4	7.7	7.9	8.3	8.4	7.5	5.0	3.1	2.1	1.7	1.5	1.4	1.4	1.3	1.3
195- 225	30	5.5	5.6	5.7	5.8	6.0	6.2	6.5	5.8	4.2	2.8	2.1	1.6	1.4	1.3	1.2	1.2	1.2

Table 3 (Continuation)

Equivalent dose rate from LAr EC and stainless steel VA for T= 100 d, t= 100 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									10.0	2.3	1.3	0.9	0.8	0.7	0.7	0.6	0.6
5- 10	5	302.8	276.9	297.3	297.7	290.3	276.7	266.1	208.2	9.7	2.3	1.3	0.9	0.8	0.7	0.7	0.6	0.6
10- 20	10	117.1	111.5	124.8	132.6	133.1	129.6	125.3	96.5	9.2	2.3	1.3	0.9	0.8	0.7	0.7	0.6	0.6
20- 30	10	53.2	54.4	61.3	68.0	71.2	71.1	69.3	52.6	8.5	2.3	1.3	0.9	0.8	0.7	0.7	0.6	0.6
30- 40	10	33.4	34.4	38.3	42.9	46.2	47.3	46.3	35.1	7.6	2.3	1.3	0.9	0.7	0.7	0.7	0.6	0.6
40- 50	10	23.8	24.5	27.0	30.1	32.7	34.0	33.8	25.7	6.9	2.2	1.3	0.9	0.7	0.7	0.7	0.6	0.6
50- 65	15	17.2	17.5	19.1	21.1	23.1	24.2	24.5	18.7	6.2	2.2	1.3	0.9	0.7	0.7	0.6	0.6	0.6
65- 85	20	12.0	12.2	13.1	14.2	15.5	16.4	16.7	13.1	5.2	2.1	1.2	0.9	0.7	0.7	0.6	0.6	0.6
85- 110	25	8.3	8.4	8.9	9.6	10.3	10.9	11.1	9.0	4.3	2.0	1.2	0.8	0.7	0.7	0.6	0.6	0.6
110- 135	25	6.0	6.0	6.3	6.6	7.0	7.5	7.7	6.4	3.6	1.7	1.1	0.8	0.7	0.6	0.6	0.6	0.6
135- 165	30	4.3	4.4	4.5	4.8	5.0	5.3	5.4	4.7	2.9	1.6	1.0	0.8	0.7	0.6	0.6	0.6	0.6
165- 195	30	3.3	3.3	3.4	3.6	3.7	3.8	3.9	3.5	2.3	1.5	0.9	0.7	0.6	0.6	0.6	0.6	0.6
195- 225	30	2.5	2.5	2.6	2.7	2.7	2.8	2.9	2.7	1.9	1.4	0.9	0.7	0.6	0.6	0.5	0.5	0.5

Table 3 (Continuation)

Equivalent dose rate from LAr EC and stainless steel VA for T= 10 y, t= 1 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									85.1	19.7	11.2	8.3	7.0	6.5	6.1	6.0	6.0
5- 10	5	2695.2	2365.6	2503.9	2492.6	2434.3	2326.9	2249.6	1769.1	83.1	19.6	11.0	8.2	7.0	6.4	6.0	5.9	5.9
10- 20	10	1021.5	954.0	1059.2	1117.5	1120.6	1091.5	1059.0	820.2	78.8	19.5	11.0	8.2	7.0	6.4	6.0	5.9	5.9
20- 30	10	451.4	459.5	519.6	575.3	601.1	600.2	585.9	447.3	72.1	19.4	11.0	8.2	6.9	6.4	6.1	6.0	6.0
30- 40	10	281.1	289.7	323.9	363.4	389.7	399.5	392.5	298.3	65.4	19.1	10.9	8.2	6.9	6.4	6.1	5.9	5.9
40- 50	10	199.1	205.9	227.2	254.8	277.0	287.6	286.9	217.8	59.3	18.9	10.8	8.2	6.9	6.4	6.1	5.9	5.9
50- 65	15	143.8	147.8	161.1	178.4	195.3	205.0	206.7	158.5	52.6	18.5	10.8	8.2	6.8	6.3	6.0	5.9	5.9
65- 85	20	100.6	102.7	110.3	120.1	131.3	139.0	140.8	111.3	44.6	17.7	10.6	8.0	6.8	6.3	6.0	5.8	5.8
85- 110	25	69.7	70.8	74.9	80.5	87.0	92.0	94.3	77.0	36.5	16.5	10.2	7.8	6.6	6.2	5.9	5.7	5.7
110- 135	25	49.7	50.5	52.9	56.2	59.9	63.3	64.7	54.3	30.5	14.9	9.7	7.6	6.4	6.0	5.7	5.6	5.6
135- 165	30	36.7	37.0	38.5	40.6	42.5	44.6	45.5	39.6	24.9	13.4	8.9	7.1	6.2	5.8	5.6	5.4	5.4
165- 195	30	27.4	27.8	28.5	29.9	31.1	32.1	33.1	29.6	19.7	12.6	8.1	6.6	5.7	5.4	5.1	5.0	5.0
195- 225	30	21.3	21.5	22.1	22.9	23.7	24.1	25.0	22.9	16.4	11.1	8.1	6.2	5.3	5.0	4.8	4.7	4.7

Table 3 (Continuation)

Equivalent dose rate from LAr EC and stainless steel VA for T= 10 y, t= 3 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									71.5	16.4	9.3	6.9	5.8	5.4	5.1	5.0	5.0
5- 10	5	2012.7	1911.2	2068.4	2083.3	2046.3	1960.9	1895.7	1492.5	69.9	16.3	9.2	6.9	5.8	5.4	5.0	4.9	4.9
10- 20	10	786.1	768.9	867.3	925.7	936.9	916.0	891.6	691.6	66.2	16.2	9.2	6.9	5.8	5.4	5.0	4.9	4.9
20- 30	10	364.9	376.9	427.0	475.6	500.4	502.7	492.3	376.8	60.6	16.2	9.1	6.9	5.8	5.4	5.1	5.0	5.0
30- 40	10	231.4	239.9	267.8	301.0	324.2	333.4	329.4	251.0	54.9	16.0	9.2	6.9	5.8	5.4	5.1	5.0	5.0
40- 50	10	165.7	172.1	188.9	211.6	230.5	239.8	240.1	183.0	49.7	15.7	9.1	6.8	5.8	5.3	5.1	4.9	4.9
50- 65	15	120.2	123.6	134.2	148.4	162.6	171.2	173.0	133.3	44.1	15.3	9.0	6.8	5.7	5.3	5.0	4.9	4.9
65- 85	20	84.2	86.1	92.1	100.4	109.5	116.1	117.7	93.4	37.3	14.7	8.8	6.7	5.7	5.2	5.0	4.9	4.9
85- 110	25	58.5	59.6	62.8	67.3	72.8	77.0	78.8	64.4	30.6	13.7	8.5	6.5	5.5	5.2	4.9	4.8	4.8
110- 135	25	41.9	42.5	44.4	47.2	50.0	52.9	54.1	45.5	25.4	12.5	8.0	6.3	5.4	5.0	4.8	4.7	4.7
135- 165	30	30.9	31.3	32.4	34.0	35.6	37.4	38.1	33.3	20.7	11.2	7.5	5.9	5.2	4.9	4.6	4.5	4.5
165- 195	30	23.2	23.4	24.0	25.1	26.0	27.0	27.7	24.7	16.6	10.4	6.9	5.5	4.9	4.6	4.4	4.3	4.3
195- 225	30	18.1	18.2	18.7	19.3	19.9	20.3	20.9	19.1	13.8	9.1	6.7	5.3	4.5	4.2	4.1	4.0	4.0

Table 3 (Continuation)

Equivalent dose rate from LAr EC and stainless steel VA for T= 10 y, t= 5 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									62.9	14.5	8.2	6.1	5.2	4.8	4.5	4.4	4.4
5- 10	5	1783.2	1683.8	1821.0	1836.2	1800.0	1723.7	1667.0	1312.7	61.5	14.3	8.1	6.1	5.2	4.7	4.4	4.3	4.3
10- 20	10	696.5	677.9	764.0	816.5	824.4	806.8	783.7	608.0	58.3	14.3	8.1	6.1	5.1	4.7	4.4	4.3	4.3
20- 30	10	322.0	332.4	376.1	418.9	440.4	442.0	432.8	331.3	53.2	14.2	8.1	6.1	5.1	4.7	4.4	4.3	4.3
30- 40	10	204.3	211.3	236.3	265.3	285.4	293.3	289.5	220.6	48.2	14.0	8.0	6.0	5.1	4.7	4.4	4.3	4.3
40- 50	10	146.2	151.5	166.5	186.2	202.8	211.1	211.2	161.0	43.8	13.9	8.0	6.0	5.1	4.7	4.5	4.4	4.4
50- 65	15	105.7	108.9	118.3	130.8	143.3	150.3	152.2	117.2	38.7	13.5	8.0	6.0	5.1	4.7	4.5	4.3	4.3
65- 85	20	74.2	75.9	81.0	88.3	96.4	102.0	103.7	82.2	32.8	13.0	7.8	5.9	5.0	4.6	4.4	4.3	4.3
85- 110	25	51.5	52.4	55.3	59.3	64.1	67.7	69.3	56.7	26.9	12.1	7.4	5.7	4.9	4.6	4.3	4.2	4.2
110- 135	25	36.8	37.4	39.1	41.5	44.1	46.6	47.7	40.0	22.4	10.9	7.1	5.5	4.8	4.4	4.2	4.1	4.1
135- 165	30	27.1	27.4	28.5	29.9	31.3	32.9	33.6	29.2	18.3	9.9	6.5	5.2	4.5	4.2	4.0	3.9	3.9
165- 195	30	20.3	20.6	21.2	22.1	22.9	23.7	24.3	21.8	14.6	9.2	6.1	4.8	4.3	4.0	3.9	3.8	3.8
195- 225	30	15.9	16.0	16.4	17.0	17.5	17.9	18.3	16.8	12.1	8.0	5.8	4.6	4.0	3.7	3.6	3.5	3.5

Table 3 (Continuation)

Equivalent dose rate from LAr EC and stainless steel VA for T= 10 y, t= 30 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									28.8	6.7	3.7	2.9	2.5	2.3	2.1	2.0	2.0
5- 10	5	1038.2	843.6	875.0	859.3	831.5	791.5	760.2	596.4	28.1	6.7	3.7	2.9	2.4	2.2	2.1	2.0	2.0
10- 20	10	388.7	340.6	373.2	388.1	384.7	372.0	358.6	276.8	26.8	6.7	3.7	2.9	2.4	2.2	2.1	2.0	2.0
20- 30	10	164.3	162.2	182.4	200.6	207.5	205.7	198.8	151.2	24.5	6.7	3.7	2.9	2.4	2.2	2.1	2.0	2.0
30- 40	10	100.0	101.3	113.1	126.3	134.8	137.3	133.7	100.9	22.2	6.6	3.7	2.9	2.5	2.2	2.1	2.0	2.0
40- 50	10	69.7	71.5	79.0	88.3	95.6	98.7	97.8	73.8	20.2	6.5	3.7	2.8	2.4	2.3	2.1	2.0	2.0
50- 65	15	49.8	51.1	55.7	61.6	67.3	70.4	70.7	53.9	17.9	6.2	3.6	2.8	2.4	2.3	2.1	2.1	2.1
65- 85	20	34.7	35.2	37.8	41.3	45.1	47.7	48.1	37.9	15.2	6.0	3.6	2.8	2.4	2.2	2.1	2.1	2.1
85- 110	25	24.0	24.1	25.7	27.5	29.8	31.6	32.3	26.3	12.4	5.6	3.4	2.7	2.3	2.2	2.1	2.1	2.1
110- 135	25	16.9	17.1	18.1	19.2	20.3	21.7	22.1	18.5	10.5	5.0	3.3	2.6	2.3	2.1	2.1	2.0	2.0
135- 165	30	12.4	12.5	13.0	13.9	14.4	15.2	15.5	13.5	8.5	4.6	3.0	2.4	2.1	2.0	1.9	1.9	1.9
165- 195	30	9.3	9.4	9.7	10.2	10.5	10.9	11.3	10.1	6.8	4.4	2.8	2.2	2.0	1.9	1.8	1.8	1.8
195- 225	30	7.2	7.3	7.5	7.8	8.1	8.2	8.5	7.8	5.5	3.8	2.8	2.2	1.8	1.7	1.7	1.6	1.6

Table 3 (Continuation)

Equivalent dose rate from LAr EC and stainless steel VA for T= 10 y, t= 100 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									15.5	3.7	2.1	1.7	1.4	1.2	1.2	1.1	1.1
5- 10	5	725.6	505.2	497.9	470.2	446.7	421.7	403.1	315.0	15.1	3.7	2.1	1.7	1.3	1.2	1.2	1.1	1.1
10- 20	10	263.3	204.5	216.4	217.3	209.6	199.8	190.8	146.4	14.3	3.7	2.1	1.7	1.3	1.2	1.2	1.1	1.1
20- 30	10	100.3	94.4	104.9	113.3	114.7	111.6	106.5	80.1	13.1	3.7	2.1	1.6	1.3	1.2	1.2	1.1	1.1
30- 40	10	58.3	57.3	63.9	71.1	74.7	75.0	71.9	53.8	12.0	3.6	2.1	1.6	1.3	1.2	1.2	1.1	1.1
40- 50	10	39.6	39.8	44.2	49.2	53.0	54.1	53.0	39.4	10.9	3.6	2.1	1.6	1.4	1.2	1.2	1.1	1.1
50- 65	15	27.7	27.9	30.8	34.1	37.3	38.7	38.5	28.8	9.7	3.5	2.0	1.6	1.4	1.2	1.1	1.0	1.0
65- 85	20	19.1	19.0	20.7	22.5	24.7	26.2	26.0	20.4	8.2	3.3	2.0	1.6	1.4	1.2	1.1	1.0	1.0
85- 110	25	12.9	13.0	14.0	14.9	16.3	17.2	17.6	14.2	6.7	3.1	1.9	1.6	1.4	1.2	1.0	1.0	1.0
110- 135	25	9.1	9.1	9.7	10.4	11.0	11.8	12.1	10.1	5.8	2.7	1.9	1.5	1.3	1.1	1.0	1.0	1.0
135- 165	30	6.6	6.7	7.0	7.5	7.8	8.3	8.4	7.4	4.7	2.5	1.7	1.4	1.2	1.0	1.0	1.0	1.0
165- 195	30	4.8	4.9	5.2	5.6	5.7	5.9	6.2	5.6	3.7	2.5	1.6	1.2	1.0	1.0	1.0	0.9	0.9
195- 225	30	3.8	3.9	3.9	4.2	4.4	4.4	4.6	4.3	2.9	2.2	1.7	1.2	0.9	0.8	0.8	0.8	0.8

Table 4

Equivalent dose rate from LAr EC and aluminum VA for T= 100 d, t=1d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									5.8	1.7	1.1	0.7	0.6	0.6	0.6	0.6	0.6
5- 10	5	743.6	368.7	291.0	226.1	191.0	175.8	162.3	112.5	5.7	1.6	0.9	0.7	0.6	0.5	0.5	0.5	0.5
10- 20	10	241.4	148.9	136.6	115.8	97.1	86.4	77.9	53.2	5.4	1.6	0.9	0.7	0.6	0.6	0.5	0.5	0.5
20- 30	10	71.4	59.0	63.4	62.8	57.2	51.2	44.8	30.1	5.2	1.7	0.9	0.7	0.6	0.6	0.6	0.6	0.6
30- 40	10	34.9	31.9	35.9	38.6	37.8	35.9	31.0	20.8	4.8	1.7	1.0	0.7	0.6	0.6	0.6	0.6	0.6
40- 50	10	21.2	20.4	23.3	26.0	26.8	25.8	23.7	15.5	4.5	1.7	1.0	0.7	0.6	0.6	0.6	0.6	0.6
50- 65	15	14.0	13.6	15.4	17.2	18.6	18.5	17.5	11.6	4.1	1.6	1.0	0.7	0.6	0.6	0.6	0.6	0.6
65- 85	20	9.1	8.9	10.0	10.9	12.1	12.5	11.8	8.7	3.3	1.6	0.9	0.7	0.6	0.6	0.6	0.6	0.6
85- 110	25	5.9	5.7	6.4	6.8	7.6	8.0	8.1	6.3	2.8	1.4	0.9	0.7	0.6	0.6	0.6	0.6	0.6
110- 135	25	3.9	3.9	4.3	4.6	5.0	5.5	5.5	4.4	2.7	1.1	0.8	0.7	0.6	0.6	0.6	0.5	0.5
135- 165	30	2.8	2.7	3.0	3.3	3.3	3.7	3.8	3.2	2.2	1.0	0.7	0.5	0.6	0.6	0.5	0.5	0.5
165- 195	30	1.9	1.9	2.0	2.4	2.4	2.4	2.7	2.5	1.5	1.4	0.6	0.4	0.5	0.4	0.4	0.4	0.4
195- 225	30	1.5	1.5	1.6	1.7	1.8	1.7	2.1	2.0	1.2	1.1	1.0	0.5	0.3	0.3	0.3	0.3	0.3

Table 4 (Continuation)

Equivalent dose rate from LAr EC and aluminum VA for T= 100 d, t= 3 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									1.7	0.5	0.3	0.3	0.2	0.2	0.2	0.2	0.2
5- 10	5	226.0	111.1	87.8	68.0	57.2	52.8	48.5	33.4	1.7	0.5	0.3	0.3	0.2	0.2	0.1	0.1	0.1
10- 20	10	75.1	44.4	40.9	34.9	29.2	26.0	23.4	15.8	1.6	0.5	0.3	0.3	0.2	0.2	0.1	0.1	0.1
20- 30	10	22.3	17.8	19.0	18.9	17.3	15.4	13.4	9.0	1.5	0.5	0.3	0.3	0.2	0.2	0.2	0.2	0.2
30- 40	10	11.0	9.8	10.8	11.7	11.4	10.8	9.3	6.2	1.4	0.5	0.3	0.3	0.2	0.2	0.2	0.2	0.2
40- 50	10	6.6	6.2	7.0	7.7	8.0	7.6	7.1	4.6	1.3	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2
50- 65	15	4.3	4.1	4.6	5.1	5.5	5.5	5.3	3.4	1.2	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2
65- 85	20	2.8	2.6	3.0	3.3	3.6	3.8	3.6	2.6	1.0	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2
85- 110	25	1.8	1.7	1.8	2.0	2.3	2.3	2.3	1.9	0.8	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2
110- 135	25	1.1	1.2	1.3	1.3	1.4	1.6	1.6	1.2	0.8	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2
135- 165	30	0.8	0.8	0.9	0.9	1.0	1.1	1.1	1.0	0.7	0.4	0.2	0.1	0.2	0.2	0.2	0.2	0.2
165- 195	30	0.6	0.6	0.6	0.7	0.7	0.7	0.9	0.8	0.5	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1
195- 225	30	0.4	0.4	0.5	0.6	0.6	0.5	0.6	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1

Table 4 (Continuation)

Equivalent dose rate from LAr EC and aluminum VA for T= 100 d, t= 5 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									1.3	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.1
5- 10	5	163.1	79.8	63.2	48.9	41.1	37.8	34.9	24.0	1.3	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1
10- 20	10	54.3	31.5	29.4	25.1	20.9	18.5	16.7	11.3	1.2	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1
20- 30	10	16.3	12.8	13.7	13.5	12.3	10.9	9.6	6.4	1.1	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.1
30- 40	10	8.1	7.0	7.8	8.4	8.2	7.7	6.6	4.4	1.0	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.1
40- 50	10	4.9	4.5	5.1	5.6	5.7	5.5	5.1	3.4	1.0	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.1
50- 65	15	3.2	2.9	3.3	3.7	3.9	4.0	3.7	2.5	0.9	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1
65- 85	20	2.1	1.9	2.1	2.4	2.6	2.7	2.5	1.8	0.7	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1
85- 110	25	1.2	1.2	1.3	1.5	1.7	1.7	1.7	1.4	0.6	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1
110- 135	25	0.8	0.9	0.9	1.0	1.1	1.2	1.2	1.0	0.6	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
135- 165	30	0.5	0.6	0.7	0.7	0.7	0.8	0.8	0.7	0.5	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
165- 195	30	0.4	0.4	0.4	0.5	0.6	0.6	0.6	0.5	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
195- 225	30	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1

Table 4 (Continuation)

Equivalent dose rate from LAr EC and aluminum VA for T= 100 d, t= 30 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									1.1	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1
5- 10	5	130.0	63.4	50.2	39.0	32.9	30.3	27.9	19.3	0.9	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
10- 20	10	43.9	25.3	23.5	20.1	16.7	14.9	13.4	9.1	0.9	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
20- 30	10	13.1	10.3	11.0	10.8	9.8	8.8	7.7	5.1	0.8	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
30- 40	10	6.4	5.6	6.2	6.6	6.5	6.1	5.3	3.5	0.8	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1
40- 50	10	4.0	3.6	4.0	4.5	4.6	4.4	4.1	2.7	0.7	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1
50- 65	15	2.5	2.4	2.6	3.0	3.2	3.2	3.1	2.0	0.7	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1
65- 85	20	1.7	1.5	1.7	1.9	2.0	2.2	2.0	1.5	0.6	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1
85- 110	25	1.0	1.0	1.1	1.2	1.3	1.4	1.4	1.0	0.5	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1
110- 135	25	0.7	0.6	0.7	0.8	0.8	0.9	0.9	0.7	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
135- 165	30	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.5	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
165- 195	30	0.3	0.3	0.3	0.5	0.4	0.5	0.5	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
195- 225	30	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1

Table 4 (Continuation)

Equivalent dose rate from LAr EC and aluminum VA for T= 100 d, t= 100 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									0.9	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
5- 10	5	113.8	56.1	44.7	34.8	29.5	27.3	25.1	17.4	0.9	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
10- 20	10	38.7	22.8	20.8	17.8	14.9	13.4	12.0	8.2	0.8	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
20- 30	10	11.8	9.4	9.8	9.6	8.9	7.9	7.0	4.6	0.8	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
30- 40	10	5.8	5.1	5.6	5.9	5.9	5.6	4.8	3.2	0.7	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
40- 50	10	3.6	3.3	3.6	4.0	4.1	4.0	3.7	2.4	0.7	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
50- 65	15	2.4	2.1	2.4	2.7	2.8	2.8	2.7	1.8	0.6	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
65- 85	20	1.5	1.3	1.6	1.7	1.9	1.9	1.8	1.3	0.5	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
85- 110	25	1.0	0.9	1.0	1.1	1.2	1.3	1.3	1.0	0.5	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
110- 135	25	0.6	0.5	0.7	0.7	0.7	0.9	0.9	0.6	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
135- 165	30	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.5	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
165- 195	30	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
195- 225	30	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0

Table 4 (Continuation)

Equivalent dose rate from LAr EC and aluminum VA for T= 10 y, t= 1 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									9.4	2.7	1.7	1.2	1.0	0.9	0.9	0.9	0.9
5- 10	5	1175.6	584.8	462.1	360.2	305.8	282.6	260.9	180.8	9.1	2.6	1.5	1.1	1.0	0.9	0.8	0.8	0.8
10- 20	10	388.6	236.1	216.9	184.7	155.3	138.5	125.0	85.3	8.8	2.6	1.5	1.1	1.0	0.9	0.8	0.8	0.8
20- 30	10	116.0	94.8	101.3	100.0	91.4	81.9	71.7	48.3	8.2	2.6	1.5	1.1	1.0	0.9	0.9	0.9	0.9
30- 40	10	57.0	51.5	57.5	61.7	60.4	57.6	49.8	33.3	7.7	2.6	1.5	1.1	1.0	0.9	0.9	0.9	0.9
40- 50	10	34.7	33.0	37.4	41.6	42.9	41.5	38.0	24.8	7.2	2.7	1.5	1.2	1.0	0.9	0.9	0.9	0.9
50- 65	15	22.7	21.9	24.7	27.6	29.7	29.7	28.0	18.6	6.5	2.6	1.6	1.2	1.0	0.9	0.9	0.9	0.9
65- 85	20	14.8	14.2	16.0	17.5	19.3	20.1	18.9	13.9	5.5	2.5	1.6	1.2	1.0	0.9	0.9	0.9	0.9
85- 110	25	9.4	9.1	10.2	11.1	12.2	12.8	12.9	10.1	4.4	2.3	1.5	1.2	1.0	0.9	0.9	0.9	0.9
110- 135	25	6.2	6.2	6.8	7.5	8.0	8.8	8.8	7.0	4.2	1.8	1.4	1.2	0.9	0.9	0.9	0.9	0.9
135- 165	30	4.4	4.3	4.8	5.4	5.4	6.0	6.0	5.1	3.6	1.7	1.1	0.9	0.9	0.9	0.9	0.8	0.8
165- 195	30	3.1	3.2	3.3	3.8	3.9	4.0	4.4	4.0	2.3	2.1	1.0	0.8	0.7	0.7	0.6	0.6	0.6
195- 225	30	2.4	2.4	2.5	2.8	3.0	2.8	3.3	3.1	2.0	1.8	1.5	0.7	0.6	0.5	0.5	0.5	0.5

Table 4 (Continuation)

Equivalent dose rate from LAr EC and aluminum VA for T= 10 y, t= 3 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									5.2	1.5	0.9	0.7	0.6	0.6	0.5	0.5	0.5
5- 10	5	650.9	321.8	255.6	199.2	168.7	156.0	144.1	99.8	5.0	1.4	0.8	0.7	0.6	0.6	0.4	0.4	0.4
10- 20	10	221.1	129.2	119.5	101.9	85.7	76.6	69.1	47.0	4.8	1.4	0.8	0.7	0.6	0.6	0.4	0.4	0.4
20- 30	10	66.4	52.9	56.0	55.1	50.6	45.2	39.6	26.6	4.5	1.5	0.8	0.7	0.6	0.6	0.5	0.5	0.5
30- 40	10	32.7	28.8	32.0	34.2	33.4	31.8	27.6	18.2	4.2	1.5	0.9	0.7	0.6	0.6	0.5	0.5	0.5
40- 50	10	19.7	18.5	20.9	23.0	23.7	22.9	20.9	13.6	3.9	1.4	0.9	0.7	0.6	0.6	0.5	0.5	0.5
50- 65	15	12.7	12.1	13.7	15.2	16.5	16.4	15.4	10.2	3.6	1.4	0.9	0.7	0.6	0.6	0.5	0.5	0.5
65- 85	20	8.2	7.8	8.9	9.7	10.7	11.0	10.4	7.7	3.0	1.4	0.9	0.6	0.6	0.6	0.5	0.5	0.5
85- 110	25	5.3	5.0	5.6	6.0	6.8	7.2	7.1	5.6	2.4	1.2	0.9	0.6	0.6	0.5	0.5	0.5	0.5
110- 135	25	3.4	3.3	3.7	4.1	4.3	4.9	4.8	3.8	2.4	1.0	0.7	0.6	0.6	0.5	0.5	0.5	0.5
135- 165	30	2.4	2.4	2.7	3.0	3.0	3.3	3.3	2.9	2.0	1.0	0.6	0.5	0.5	0.5	0.5	0.5	0.5
165- 195	30	1.8	1.7	1.8	2.1	2.1	2.2	2.4	2.2	1.3	1.2	0.6	0.4	0.4	0.4	0.4	0.4	0.4
195- 225	30	1.3	1.3	1.4	1.6	1.6	1.6	1.9	1.7	1.1	0.9	0.8	0.5	0.3	0.3	0.3	0.3	0.3

Table 4 (Continuation)

Equivalent dose rate from LAr EC and aluminum VA for T= 10 y, t= 5 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									4.7	1.4	0.9	0.6	0.6	0.5	0.5	0.5	0.5
5- 10	5	591.0	289.7	231.2	179.2	151.9	140.4	129.5	89.8	4.5	1.3	0.8	0.6	0.6	0.4	0.4	0.4	0.4
10- 20	10	200.6	116.8	108.0	91.8	77.2	68.9	62.1	42.3	4.4	1.3	0.8	0.6	0.6	0.4	0.4	0.4	0.4
20- 30	10	60.1	47.8	50.7	49.8	45.5	40.8	35.6	24.0	4.1	1.3	0.8	0.6	0.6	0.4	0.4	0.4	0.4
30- 40	10	29.8	26.0	28.9	30.9	30.1	28.6	24.6	16.5	3.8	1.3	0.7	0.6	0.6	0.5	0.4	0.4	0.4
40- 50	10	18.1	16.7	18.9	20.8	21.4	20.6	18.9	12.3	3.6	1.3	0.7	0.6	0.5	0.5	0.5	0.5	0.5
50- 65	15	11.6	11.0	12.5	13.9	14.9	14.7	13.9	9.3	3.2	1.3	0.8	0.6	0.5	0.5	0.5	0.5	0.5
65- 85	20	7.5	7.1	7.9	8.7	9.6	9.9	9.4	7.0	2.7	1.3	0.8	0.6	0.5	0.5	0.5	0.5	0.5
85- 110	25	4.8	4.6	5.1	5.5	6.1	6.4	6.4	5.0	2.1	1.1	0.7	0.6	0.5	0.5	0.5	0.5	0.5
110- 135	25	3.1	3.0	3.4	3.7	4.0	4.4	4.4	3.4	2.1	1.0	0.7	0.6	0.5	0.5	0.5	0.5	0.5
135- 165	30	2.1	2.2	2.3	2.6	2.6	3.0	3.0	2.6	1.8	0.9	0.6	0.5	0.4	0.4	0.4	0.4	0.4
165- 195	30	1.5	1.5	1.7	1.9	1.9	1.9	2.1	2.0	1.2	1.1	0.5	0.3	0.4	0.4	0.4	0.4	0.4
195- 225	30	1.2	1.2	1.3	1.4	1.5	1.4	1.6	1.5	1.0	0.8	0.7	0.4	0.3	0.3	0.3	0.2	0.2

Table 4 (Continuation)

Equivalent dose rate from LAr EC and aluminum VA for T= 10 y, t= 30 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									4.4	1.2	0.7	0.6	0.5	0.5	0.4	0.4	0.4
5- 10	5	553.7	271.9	216.7	169.4	144.0	133.2	123.1	85.2	4.2	1.2	0.7	0.6	0.4	0.4	0.4	0.4	0.4
10- 20	10	186.5	110.2	101.5	86.7	73.0	65.3	58.9	40.2	4.2	1.2	0.7	0.6	0.4	0.4	0.4	0.4	0.4
20- 30	10	56.5	45.1	47.7	47.1	43.1	38.6	33.8	22.8	3.9	1.2	0.7	0.6	0.4	0.4	0.4	0.4	0.4
30- 40	10	28.1	24.7	27.4	29.1	28.5	27.0	23.4	15.6	3.6	1.2	0.7	0.6	0.5	0.4	0.4	0.4	0.4
40- 50	10	16.9	15.8	17.8	19.7	20.1	19.5	17.9	11.7	3.3	1.2	0.7	0.6	0.5	0.5	0.4	0.4	0.4
50- 65	15	10.8	10.5	11.9	13.0	14.0	13.9	13.2	8.8	3.0	1.2	0.7	0.6	0.5	0.5	0.4	0.5	0.5
65- 85	20	7.1	6.7	7.5	8.3	9.1	9.5	8.9	6.6	2.6	1.1	0.7	0.6	0.5	0.5	0.5	0.5	0.5
85- 110	25	4.6	4.3	4.8	5.2	5.8	6.1	6.1	4.7	2.0	1.1	0.7	0.6	0.5	0.5	0.5	0.5	0.5
110- 135	25	2.9	2.9	3.3	3.5	3.7	4.1	4.1	3.3	2.0	0.8	0.7	0.6	0.5	0.5	0.5	0.5	0.5
135- 165	30	2.0	2.1	2.2	2.5	2.5	2.8	2.8	2.5	1.7	0.9	0.5	0.4	0.4	0.4	0.4	0.4	0.4
165- 195	30	1.4	1.5	1.6	1.8	1.8	1.8	2.1	1.9	1.2	1.0	0.5	0.3	0.4	0.4	0.4	0.3	0.3
195- 225	30	1.1	1.1	1.3	1.4	1.4	1.3	1.6	1.4	0.9	0.8	0.7	0.4	0.3	0.3	0.2	0.2	0.2

Table 4 (Continuation)

Equivalent dose rate from LAr EC and aluminum VA for T= 10 y, t= 100 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5									4.2	1.2	0.7	0.6	0.5	0.4	0.4	0.4	0.4
5- 10	5	516.6	253.2	203.0	158.7	135.0	124.9	115.4	80.0	4.0	1.2	0.7	0.6	0.4	0.4	0.4	0.4	0.4
10- 20	10	174.7	102.7	95.0	81.2	68.4	61.1	55.2	37.7	3.8	1.2	0.7	0.6	0.4	0.4	0.4	0.4	0.4
20- 30	10	52.7	42.4	44.8	44.1	40.3	36.1	31.6	21.2	3.6	1.2	0.7	0.6	0.4	0.4	0.4	0.4	0.4
30- 40	10	26.3	23.1	25.6	27.3	26.6	25.2	22.0	14.7	3.4	1.1	0.7	0.6	0.4	0.4	0.4	0.4	0.4
40- 50	10	15.9	14.9	16.8	18.3	19.0	18.3	16.7	11.0	3.2	1.1	0.7	0.6	0.5	0.4	0.4	0.4	0.4
50- 65	15	10.3	9.7	11.1	12.3	13.2	13.1	12.4	8.2	2.9	1.1	0.7	0.6	0.5	0.4	0.4	0.4	0.4
65- 85	20	6.7	6.2	7.0	7.7	8.5	8.8	8.3	6.1	2.4	1.1	0.7	0.6	0.5	0.4	0.4	0.4	0.4
85- 110	25	4.2	4.0	4.6	4.8	5.4	5.7	5.7	4.4	1.9	1.0	0.7	0.6	0.5	0.4	0.4	0.4	0.4
110- 135	25	2.8	2.7	3.0	3.3	3.5	3.9	3.8	3.1	1.9	0.8	0.6	0.5	0.5	0.4	0.4	0.4	0.4
135- 165	30	1.9	1.9	2.1	2.4	2.4	2.6	2.7	2.3	1.6	0.8	0.5	0.4	0.4	0.4	0.3	0.3	0.3
165- 195	30	1.4	1.4	1.5	1.7	1.7	1.7	2.0	1.8	1.1	0.9	0.5	0.3	0.3	0.3	0.3	0.3	0.3
195- 225	30	1.1	1.1	1.1	1.3	1.3	1.3	1.5	1.4	0.9	0.8	0.7	0.4	0.3	0.2	0.2	0.2	0.2

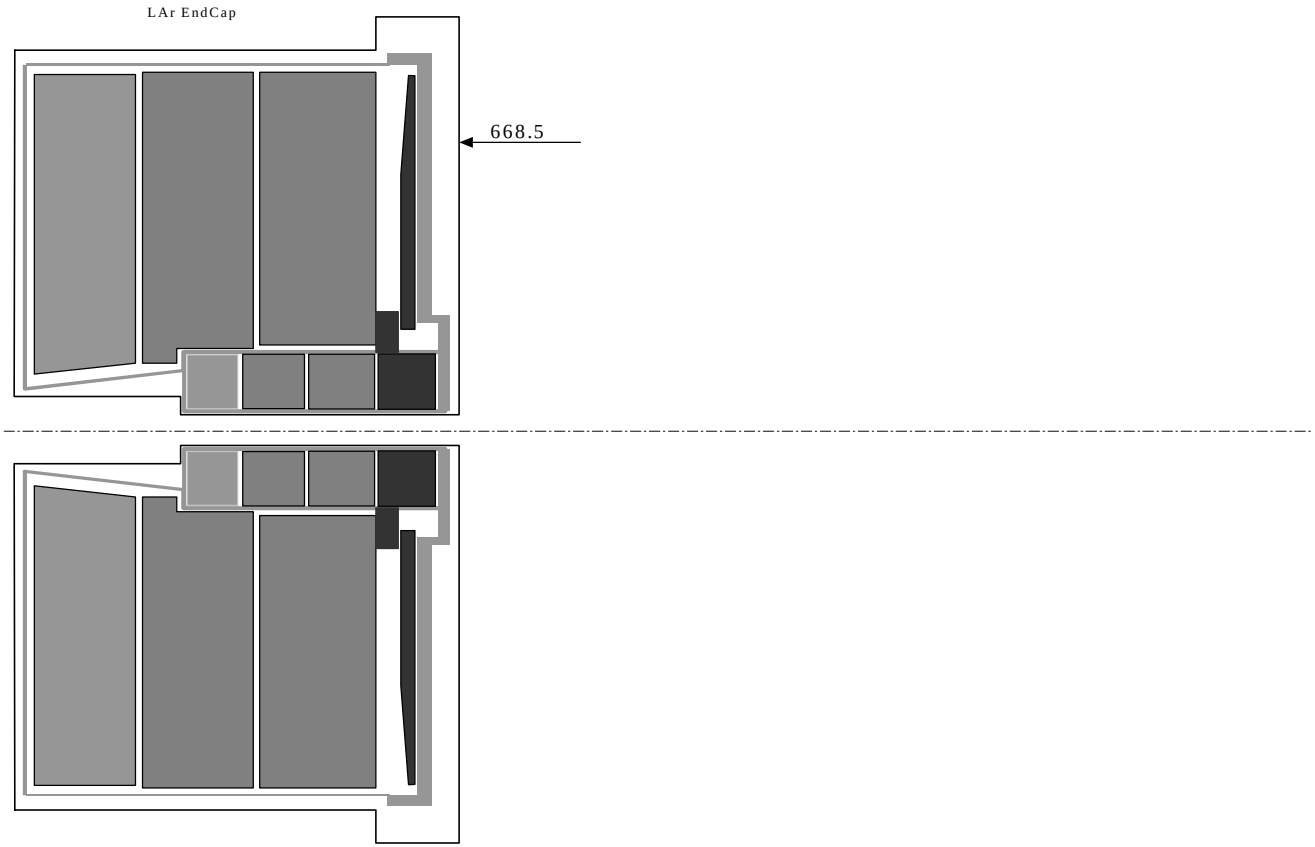

Fig.3. To calculations of dose rate from LAr EC

Table 5

Equivalent dose rate from LAr EC for T= 100 d, t=1d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5	672.7	301.2	152.7	63.0	26.4	13.3	6.1	2.2	0.8	0.5	0.4	0.2	0.2	0.2	0.2	0.2	0.2
5- 10	5	591.6	207.0	119.9	55.5	23.6	11.7	5.5	1.9	0.7	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.1
10- 20	10	181.3	84.2	65.5	41.0	21.4	11.1	5.4	2.0	0.7	0.4	0.2	0.2	0.2	0.2	0.1	0.1	0.1
20- 30	10	41.4	27.1	28.1	24.3	16.9	10.4	5.1	2.0	0.8	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2
30- 40	10	15.6	11.6	13.6	14.1	11.7	9.0	4.6	2.0	0.8	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2
40- 50	10	7.3	5.9	7.6	8.7	8.2	6.5	4.6	1.7	0.8	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2
50- 65	15	4.0	3.2	4.3	5.0	5.4	4.7	3.8	1.5	0.8	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2
65- 85	20	2.1	1.6	2.3	2.6	3.2	3.2	2.4	1.6	0.6	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2
85- 110	25	1.0	0.7	1.2	1.3	1.7	1.8	1.9	1.4	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2
110- 135	25	0.4	0.3	0.6	0.7	0.9	1.2	1.2	0.8	0.8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
135- 165	30	0.2	0.1	0.3	0.5	0.4	0.7	0.7	0.7	0.7	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2
165- 195	30	0.0	0.0	0.1	0.4	0.3	0.3	0.6	0.6	0.2	0.6	0.1	0.0	0.1	0.1	0.1	0.1	0.1
195- 225	30	0.0	0.0	0.1	0.2	0.2	0.1	0.5	0.5	0.2	0.4	0.5	0.1	0.0	0.0	0.0	0.0	0.0

Table 5 (Continuation)

Equivalent dose rate from LAr EC for T= 100 d, t= 3 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5	213.4	92.0	46.3	19.0	8.0	4.0	1.9	0.6	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
5- 10	5	180.1	62.2	36.2	16.8	7.1	3.6	1.7	0.5	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
10- 20	10	56.9	24.9	19.5	12.4	6.5	3.4	1.7	0.6	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
20- 30	10	13.3	8.2	8.4	7.3	5.2	3.2	1.5	0.6	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
30- 40	10	5.1	3.6	4.1	4.3	3.5	2.7	1.4	0.6	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
40- 50	10	2.5	1.9	2.3	2.6	2.5	1.9	1.4	0.5	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
50- 65	15	1.3	1.0	1.3	1.5	1.6	1.4	1.2	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
65- 85	20	0.7	0.5	0.7	0.8	1.0	1.0	0.8	0.5	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
85- 110	25	0.4	0.2	0.3	0.4	0.5	0.5	0.5	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
110- 135	25	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
135- 165	30	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1
165- 195	30	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
195- 225	30	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0

Table 5 (Continuation)

Equivalent dose rate from LAr EC for T= 100 d, t= 5 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5	151.6	67.1	33.7	13.8	5.8	3.0	1.3	0.5	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
5- 10	5	130.1	44.6	26.1	12.1	5.2	2.5	1.2	0.4	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
10- 20	10	41.3	17.5	14.1	9.0	4.7	2.4	1.2	0.4	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
20- 30	10	9.8	5.9	6.1	5.2	3.7	2.2	1.1	0.4	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
30- 40	10	3.9	2.6	3.0	3.1	2.6	1.9	1.0	0.4	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
40- 50	10	1.9	1.4	1.7	1.9	1.7	1.4	1.0	0.4	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
50- 65	15	1.0	0.7	0.9	1.1	1.1	1.0	0.8	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
65- 85	20	0.6	0.3	0.5	0.6	0.7	0.7	0.5	0.3	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
85- 110	25	0.2	0.1	0.2	0.3	0.4	0.4	0.4	0.3	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
110- 135	25	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135- 165	30	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165- 195	30	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
195- 225	30	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 5 (Continuation)

Equivalent dose rate from LAr EC for T= 100 d, t= 30 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5	120.4	53.5	26.8	10.8	4.5	2.3	1.1	0.4	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
5- 10	5	103.8	35.5	20.8	9.6	4.1	2.0	0.9	0.3	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
10- 20	10	33.6	14.2	11.3	7.2	3.7	1.9	0.9	0.3	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
20- 30	10	7.9	4.8	4.9	4.2	2.9	1.8	0.9	0.3	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
30- 40	10	3.1	2.1	2.4	2.4	2.0	1.5	0.8	0.3	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
40- 50	10	1.6	1.1	1.3	1.5	1.4	1.1	0.8	0.3	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
50- 65	15	0.8	0.6	0.7	0.9	0.9	0.8	0.7	0.3	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
65- 85	20	0.5	0.3	0.4	0.5	0.5	0.6	0.4	0.3	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
85- 110	25	0.2	0.1	0.2	0.2	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
110- 135	25	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135- 165	30	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165- 195	30	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
195- 225	30	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 5 (Continuation)

Equivalent dose rate from LAr EC for T= 100 d, t= 100 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5	108.9	45.8	23.0	9.4	3.9	2.0	0.9	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5- 10	5	90.2	30.9	18.2	8.4	3.6	1.8	0.8	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10- 20	10	29.4	12.7	9.8	6.2	3.2	1.7	0.8	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20- 30	10	7.1	4.4	4.3	3.6	2.6	1.6	0.8	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30- 40	10	2.8	1.9	2.1	2.1	1.8	1.4	0.7	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40- 50	10	1.4	1.0	1.2	1.3	1.2	1.0	0.7	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50- 65	15	0.8	0.5	0.7	0.8	0.8	0.7	0.6	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65- 85	20	0.4	0.2	0.4	0.4	0.5	0.5	0.4	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85- 110	25	0.2	0.1	0.2	0.2	0.3	0.3	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110- 135	25	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135- 165	30	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165- 195	30	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
195- 225	30	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 5 (Continuation)

Equivalent dose rate from LAr EC for T= 10 y, t= 1 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5	1044.6	472.7	238.6	98.1	41.0	20.6	9.8	3.4	1.3	0.8	0.6	0.4	0.3	0.3	0.3	0.3	0.3
5- 10	5	931.3	324.3	186.7	85.9	36.7	18.2	8.6	3.0	1.1	0.7	0.4	0.3	0.3	0.3	0.3	0.3	0.3
10- 20	10	291.8	132.0	102.5	64.3	33.5	17.4	8.4	3.1	1.2	0.7	0.4	0.3	0.3	0.3	0.3	0.3	0.3
20- 30	10	67.8	43.4	44.5	38.1	26.5	16.3	7.9	3.2	1.2	0.7	0.4	0.3	0.3	0.3	0.3	0.3	0.3
30- 40	10	26.0	18.7	21.7	22.2	18.2	14.3	7.4	3.1	1.3	0.7	0.4	0.3	0.3	0.3	0.3	0.3	0.3
40- 50	10	12.3	9.6	12.1	13.7	12.9	10.4	7.2	2.6	1.3	0.8	0.4	0.3	0.3	0.3	0.3	0.3	0.3
50- 65	15	6.5	5.1	6.8	8.0	8.5	7.5	5.9	2.3	1.3	0.8	0.5	0.3	0.3	0.3	0.3	0.3	0.3
65- 85	20	3.5	2.5	3.7	4.2	5.0	5.1	3.8	2.5	1.0	0.8	0.5	0.3	0.3	0.3	0.3	0.3	0.3
85- 110	25	1.6	1.1	1.9	2.2	2.7	2.9	2.9	2.2	0.7	0.7	0.5	0.3	0.3	0.3	0.3	0.3	0.3
110- 135	25	0.6	0.5	0.9	1.3	1.4	2.0	1.9	1.3	1.2	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3
135- 165	30	0.3	0.1	0.5	0.9	0.7	1.1	1.1	1.0	1.1	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3
165- 195	30	0.1	0.1	0.2	0.6	0.5	0.5	0.9	0.9	0.3	0.9	0.1	0.1	0.1	0.1	0.1	0.1	0.1
195- 225	30	0.0	0.0	0.1	0.3	0.4	0.2	0.7	0.7	0.3	0.7	0.7	0.1	0.0	0.0	0.0	0.0	0.0

Table 5 (Continuation)

Equivalent dose rate from LAr EC for T= 10 y, t= 3 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5	604.6	264.7	133.2	54.1	22.4	11.5	5.4	2.0	0.7	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2
5- 10	5	515.7	177.9	103.5	47.7	20.3	10.0	4.7	1.6	0.6	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2
10- 20	10	167.6	71.6	56.3	35.4	18.4	9.7	4.7	1.6	0.6	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2
20- 30	10	39.8	24.5	24.7	20.9	14.8	9.0	4.4	1.7	0.7	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2
30- 40	10	15.5	10.7	12.2	12.4	10.1	7.9	4.1	1.6	0.7	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2
40- 50	10	7.4	5.6	6.9	7.7	7.2	5.7	4.0	1.4	0.7	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2
50- 65	15	3.8	2.9	3.8	4.4	4.8	4.2	3.3	1.3	0.7	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2
65- 85	20	2.0	1.4	2.1	2.4	2.8	2.8	2.1	1.4	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2
85- 110	25	1.0	0.6	1.0	1.1	1.6	1.7	1.6	1.2	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
110- 135	25	0.3	0.2	0.5	0.7	0.7	1.1	1.0	0.7	0.7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
135- 165	30	0.1	0.1	0.3	0.5	0.4	0.6	0.6	0.6	0.6	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2
165- 195	30	0.1	0.0	0.1	0.3	0.2	0.3	0.5	0.5	0.2	0.5	0.1	0.0	0.1	0.1	0.1	0.1	0.1
195- 225	30	0.0	0.0	0.1	0.2	0.2	0.1	0.4	0.4	0.2	0.3	0.4	0.1	0.0	0.0	0.0	0.0	0.0

Table 5 (Continuation)

Equivalent dose rate from LAr EC for T= 10 y, t= 5 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5	549.9	233.6	117.7	48.4	20.6	10.3	4.8	1.7	0.7	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.1
5- 10	5	468.3	159.1	93.6	42.9	18.3	9.1	4.2	1.5	0.6	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.1
10- 20	10	152.2	64.7	50.9	31.9	16.6	8.8	4.2	1.5	0.6	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.1
20- 30	10	36.1	22.2	22.4	19.0	13.3	8.2	3.9	1.6	0.6	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.1
30- 40	10	14.4	9.7	11.1	11.3	9.2	7.1	3.6	1.5	0.6	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.1
40- 50	10	6.9	5.1	6.3	7.0	6.5	5.2	3.6	1.3	0.7	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.1
50- 65	15	3.5	2.7	3.6	4.1	4.4	3.7	3.0	1.2	0.6	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.1
65- 85	20	1.9	1.3	1.8	2.1	2.5	2.5	1.9	1.3	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.1
85- 110	25	0.9	0.6	0.9	1.1	1.4	1.5	1.4	1.1	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1
110- 135	25	0.3	0.2	0.5	0.6	0.7	1.0	1.0	0.6	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1
135- 165	30	0.1	0.1	0.2	0.4	0.3	0.6	0.6	0.5	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
165- 195	30	0.0	0.0	0.1	0.3	0.2	0.2	0.4	0.5	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
195- 225	30	0.0	0.0	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0

Table 5 (Continuation)

Equivalent dose rate from LAr EC for T= 10 y, t= 30 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5	511.7	221.1	109.5	45.4	19.0	9.8	4.5	1.6	0.6	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1
5- 10	5	437.9	148.9	86.6	40.1	17.1	8.5	4.0	1.4	0.5	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1
10- 20	10	140.8	61.0	47.6	29.9	15.6	8.2	3.9	1.4	0.6	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1
20- 30	10	33.7	20.9	20.9	17.9	12.5	7.6	3.7	1.5	0.6	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1
30- 40	10	13.4	9.2	10.5	10.5	8.6	6.6	3.4	1.4	0.6	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1
40- 50	10	6.3	4.8	5.9	6.6	6.0	4.8	3.4	1.2	0.6	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1
50- 65	15	3.2	2.6	3.4	3.8	4.0	3.5	2.8	1.1	0.6	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1
65- 85	20	1.8	1.2	1.7	2.0	2.4	2.4	1.8	1.2	0.5	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1
85- 110	25	0.9	0.5	0.9	1.0	1.3	1.4	1.4	1.0	0.5	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1
110- 135	25	0.3	0.2	0.5	0.6	0.6	0.9	0.9	0.6	0.3	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1
135- 165	30	0.1	0.1	0.2	0.4	0.3	0.5	0.5	0.5	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
165- 195	30	0.0	0.0	0.1	0.3	0.2	0.2	0.4	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
195- 225	30	0.0	0.0	0.1	0.2	0.2	0.2	0.3	0.3	0.1	0.1	0.3	0.1	0.0	0.0	0.0	0.0	0.0

Table 5 (Continuation)

Equivalent dose rate from LAr EC for T= 10 y, t= 100 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5	470.8	203.3	101.4	42.2	17.8	9.0	4.2	1.5	0.6	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1
5- 10	5	407.9	137.5	80.9	37.2	15.9	7.9	3.7	1.3	0.5	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1
10- 20	10	131.8	56.5	44.3	27.9	14.5	7.5	3.6	1.3	0.5	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1
20- 30	10	31.3	19.6	19.6	16.7	11.6	7.0	3.4	1.3	0.5	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1
30- 40	10	12.5	8.6	9.7	9.8	8.0	6.1	3.2	1.3	0.6	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1
40- 50	10	6.0	4.5	5.6	6.0	5.7	4.5	3.1	1.2	0.6	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1
50- 65	15	3.1	2.3	3.1	3.6	3.8	3.3	2.6	1.0	0.6	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1
65- 85	20	1.7	1.1	1.6	1.8	2.2	2.2	1.6	1.1	0.4	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1
85- 110	25	0.7	0.5	0.9	0.9	1.2	1.3	1.3	0.9	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1
110- 135	25	0.3	0.2	0.4	0.6	0.6	0.9	0.8	0.6	0.5	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1
135- 165	30	0.1	0.1	0.2	0.4	0.3	0.5	0.5	0.5	0.5	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
165- 195	30	0.0	0.0	0.1	0.3	0.2	0.2	0.4	0.4	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
195- 225	30	0.0	0.0	0.0	0.2	0.2	0.2	0.3	0.3	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0

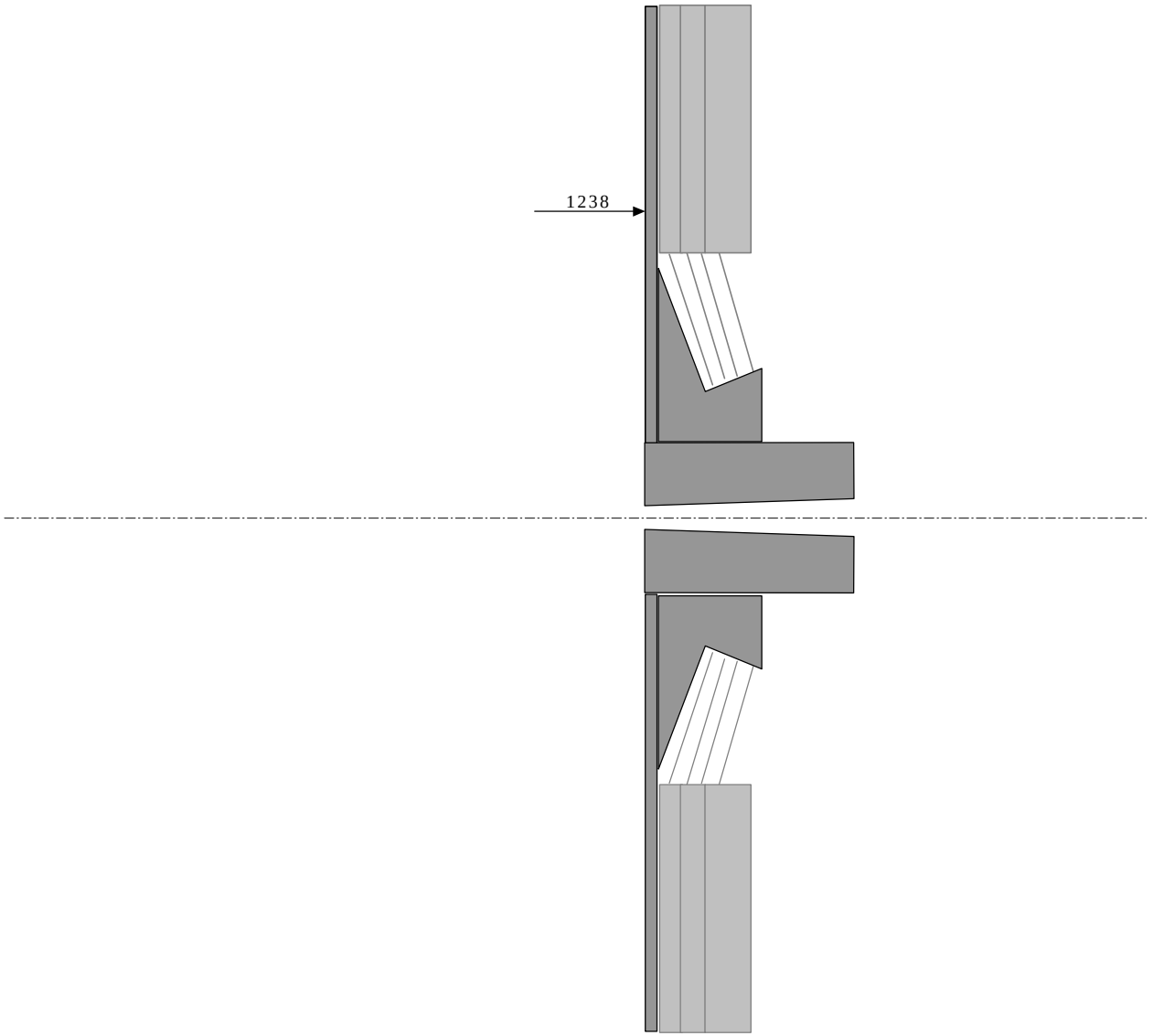

Fig.4. Access scenario to the area between LAr EC and Disk hield.

Table 6

Equivalent dose rate from Disk for T= 100 d, t=1d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5	5.4	5.5	5.6	5.9	6.2	6.6	7.7	10.8	19.1	42.6	95.7	230.6	566.3	1110.8	1913.3	2727.6	3443.5
5- 10	5	5.1	5.1	5.3	5.5	5.9	6.3	7.3	10.3	18.1	39.9	89.2	214.2	535.9	1058.0	1856.4	2722.1	3460.2
10- 20	10	4.5	4.5	4.7	4.9	5.2	5.7	6.5	9.3	16.5	36.3	80.8	198.9	489.0	904.1	1535.8	2280.2	3180.1
20- 30	10	4.5	4.6	4.7	4.9	5.2	5.6	6.5	9.3	16.5	36.3	78.8	195.5	427.4	688.0	974.1	1195.7	1343.5
30- 40	10	4.7	4.7	4.8	5.0	5.4	5.8	6.7	9.6	17.1	36.5	77.0	183.2	348.6	467.3	550.2	590.9	510.3
40- 50	10	4.9	5.0	5.1	5.3	5.6	6.2	7.1	10.1	17.7	35.6	76.2	165.2	259.0	309.0	326.6	315.2	234.6
50- 65	15	5.2	5.2	5.4	5.6	5.9	6.5	7.4	10.6	17.9	32.7	76.9	131.8	184.3	188.8	184.1	160.7	105.3
65- 85	20	5.4	5.5	5.6	5.9	6.3	6.8	7.8	10.8	16.6	31.6	69.0	92.6	111.1	101.6	97.8	73.5	47.4
85- 110	25	5.6	5.7	5.8	6.0	6.5	6.9	7.9	10.1	12.2	34.9	43.3	63.1	61.4	52.4	50.3	31.2	20.2
110- 135	25	5.6	5.6	5.8	6.0	6.3	6.7	7.2	8.7	12.9	27.5	37.1	39.6	31.4	30.9	25.5	12.4	7.9
135- 165	30	5.2	5.2	5.2	5.3	5.3	5.2	4.8	8.7	13.6	16.4	27.2	25.9	16.1	20.5	12.4	5.0	3.2
165- 195	30	3.3	3.3	3.1	2.9	2.6	2.4	4.8	9.3	13.6	15.4	15.5	16.8	10.7	13.8	5.8	2.1	1.4
195- 225	30	1.4	1.4	1.3	1.4	1.5	2.1	5.2	9.6	12.0	14.2	12.4	9.8	9.2	9.1	2.8	1.1	0.9

Table 6 (Continuation)

Equivalent dose rate from Disk for T= 100 d, t= 3 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5	4.1	4.2	4.3	4.4	4.8	5.1	5.9	8.2	14.5	32.2	72.1	173.6	424.9	838.0	1437.2	2032.4	2440.0
5- 10	5	3.9	3.9	4.0	4.2	4.4	4.9	5.6	7.9	13.7	30.1	67.1	162.6	398.0	786.3	1375.1	2032.0	2538.4
10- 20	10	3.4	3.5	3.5	3.7	3.9	4.2	5.6	7.1	12.4	27.4	61.0	149.3	366.7	676.1	1159.6	1750.4	2458.1
20- 30	10	3.5	3.5	3.6	3.7	4.0	4.3	5.0	7.1	12.5	27.4	59.6	146.3	320.7	519.3	735.4	920.3	1030.7
30- 40	10	3.5	3.6	3.7	3.8	4.1	4.4	5.2	7.4	12.9	27.5	58.3	138.0	263.6	354.3	421.9	453.0	396.8
40- 50	10	3.7	3.8	3.8	4.0	4.3	4.6	5.4	7.7	13.4	26.8	57.8	125.1	197.4	239.2	256.0	249.3	189.4
50- 65	15	3.9	3.9	4.0	4.2	4.5	4.8	5.7	8.0	13.5	24.8	58.1	100.2	141.0	146.5	148.3	128.4	85.6
65- 85	20	4.1	4.1	4.2	4.4	4.7	5.1	5.9	8.1	12.5	23.9	52.2	70.9	85.9	79.4	77.6	58.6	38.1
85- 110	25	4.3	4.3	4.4	4.6	4.8	5.2	5.9	7.6	9.4	26.4	33.1	48.6	47.7	41.4	40.0	24.9	16.4
110- 135	25	4.3	4.3	4.4	4.5	4.7	5.0	5.4	6.6	9.9	20.8	28.5	30.7	24.5	24.5	20.3	10.1	6.4
135- 165	30	3.9	3.9	3.9	4.0	4.0	3.9	3.6	6.8	10.2	12.7	20.8	20.0	12.7	16.3	9.9	4.0	2.6
165- 195	30	2.4	2.4	2.3	2.2	2.0	1.8	3.8	7.0	10.3	11.9	12.0	13.1	8.5	10.9	4.6	1.6	1.2
195- 225	30	1.1	1.1	1.1	1.1	1.2	1.6	4.0	7.2	9.4	10.9	9.7	7.6	7.3	7.2	2.2	0.9	0.7

Table 6 (Continuation)

Equivalent dose rate from Disk for T= 100 d, t= 5 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5	3.5	3.6	3.6	3.8	4.0	4.4	5.0	7.0	12.4	27.3	61.1	147.1	359.7	713.6	1219.0	1725.4	2130.0
5- 10	5	3.3	3.3	3.4	3.5	3.8	4.1	4.8	6.7	11.6	25.6	56.8	136.6	339.6	669.1	1170.2	1725.9	2184.7
10- 20	10	2.9	2.9	3.0	3.1	3.3	3.6	4.3	6.1	10.6	23.4	51.8	126.8	309.5	574.4	975.6	1463.5	2066.1
20- 30	10	3.0	3.0	3.0	3.2	3.4	3.6	4.2	6.0	10.6	23.3	50.6	124.7	271.7	440.3	622.3	782.2	847.1
30- 40	10	3.0	3.0	3.1	3.3	3.5	3.7	4.3	6.2	10.9	23.4	49.4	117.4	224.2	300.3	356.0	383.1	331.9
40- 50	10	3.2	3.2	3.3	3.4	3.7	3.9	4.5	6.5	11.3	22.8	49.0	105.8	165.9	201.4	215.4	211.9	158.7
50- 65	15	3.3	3.4	3.5	3.6	3.8	4.1	4.7	6.7	11.4	20.9	49.3	85.0	117.9	123.8	123.7	107.2	72.7
65- 85	20	3.5	3.5	3.6	3.8	4.0	4.3	4.9	6.9	10.6	20.3	44.4	60.0	72.8	67.0	65.5	49.5	32.5
85- 110	25	3.6	3.6	3.7	3.9	4.1	4.4	5.0	6.5	8.0	22.5	28.1	41.2	40.5	34.9	33.8	21.0	14.1
110- 135	25	3.6	3.6	3.7	3.9	4.0	4.3	4.6	5.6	8.4	17.7	24.2	25.9	20.8	20.7	17.2	8.6	5.5
135- 165	30	3.3	3.3	3.4	3.4	3.4	3.4	3.1	5.7	8.6	10.7	17.6	17.0	10.8	13.7	8.4	3.4	2.3
165- 195	30	2.1	2.0	2.0	1.9	1.7	1.6	3.3	6.0	8.7	10.0	10.1	11.0	7.1	9.2	3.9	1.4	1.0
195- 225	30	0.9	0.9	0.9	0.9	1.1	1.4	3.4	6.1	7.9	9.2	8.2	6.4	6.2	6.1	1.9	0.8	0.5

Table 6 (Continuation)

Equivalent dose rate from Disk for T= 100 d, t= 30 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5	1.4	1.4	1.4	1.5	1.5	1.6	1.8	2.6	4.7	10.5	24.0	58.6	142.8	293.0	524.5	764.0	995.0
5- 10	5	1.3	1.3	1.3	1.4	1.4	1.5	1.8	2.5	4.4	9.8	22.3	53.9	133.7	273.4	496.9	741.7	990.1
10- 20	10	1.0	1.1	1.1	1.1	1.3	1.4	1.6	2.3	4.0	9.0	20.3	49.8	123.8	230.2	387.9	559.7	747.3
20- 30	10	1.1	1.1	1.1	1.2	1.2	1.4	1.6	2.4	4.1	9.2	20.0	49.3	108.5	171.6	230.3	272.9	283.8
30- 40	10	1.1	1.1	1.2	1.2	1.3	1.5	1.7	2.4	4.3	9.3	19.3	46.6	86.1	111.4	124.5	128.2	109.6
40- 50	10	1.2	1.2	1.2	1.3	1.4	1.6	1.8	2.5	4.5	9.1	19.0	41.8	63.2	72.9	73.2	68.9	52.6
50- 65	15	1.3	1.3	1.3	1.4	1.5	1.7	1.9	2.6	4.6	8.2	19.6	32.6	43.7	43.9	41.3	35.4	24.8
65- 85	20	1.3	1.4	1.4	1.5	1.5	1.8	2.0	2.7	4.2	7.9	17.5	22.6	26.3	23.3	21.9	16.7	11.4
85- 110	25	1.4	1.4	1.4	1.5	1.6	1.8	2.0	2.6	3.0	8.8	10.4	15.3	14.6	11.9	11.3	7.5	5.2
110- 135	25	1.4	1.4	1.4	1.5	1.6	1.6	1.9	2.3	3.1	6.9	9.2	9.4	7.4	6.9	5.8	3.1	2.1
135- 165	30	1.3	1.3	1.3	1.3	1.3	1.3	1.2	2.3	3.4	4.0	6.7	6.1	3.7	4.6	2.9	1.2	0.9
165- 195	30	0.8	0.8	0.8	0.7	0.7	0.6	1.2	2.3	3.4	3.8	3.7	4.0	2.4	3.0	1.4	0.5	0.4
195- 225	30	0.4	0.4	0.4	0.4	0.4	0.5	1.2	2.4	3.0	3.5	3.0	2.3	2.0	2.0	0.7	0.3	0.2

Table 6 (Continuation)

Equivalent dose rate from Disk for T= 100 d, t= 100 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5	0.7	0.7	0.7	0.7	0.7	0.8	0.9	1.3	2.3	5.1	11.6	28.3	69.4	140.9	246.1	360.3	470.0
5- 10	5	0.6	0.6	0.6	0.7	0.7	0.7	0.8	1.3	2.2	4.8	10.8	26.3	65.1	130.9	238.1	352.3	470.5
10- 20	10	0.5	0.6	0.6	0.6	0.6	0.7	0.8	1.2	2.0	4.4	9.8	24.3	59.8	110.1	185.5	264.3	351.6
20- 30	10	0.6	0.6	0.6	0.6	0.6	0.7	0.8	1.1	2.1	4.4	9.8	23.8	52.3	82.2	112.0	132.9	141.4
30- 40	10	0.6	0.6	0.6	0.6	0.7	0.7	0.8	1.1	2.1	4.5	9.4	22.6	41.8	54.5	62.1	64.3	56.1
40- 50	10	0.6	0.6	0.6	0.7	0.7	0.8	0.9	1.2	2.1	4.4	9.3	20.2	30.7	35.8	36.0	34.7	26.4
50- 65	15	0.7	0.7	0.7	0.7	0.7	0.8	0.9	1.2	2.2	4.0	9.5	15.9	21.3	21.5	20.4	17.3	12.0
65- 85	20	0.7	0.7	0.7	0.7	0.8	0.8	0.9	1.3	2.0	3.8	8.4	10.9	12.9	11.3	10.6	8.1	5.6
85- 110	25	0.7	0.7	0.7	0.8	0.8	0.9	1.0	1.2	1.5	4.3	5.1	7.4	7.1	5.9	5.5	3.6	2.5
110- 135	25	0.7	0.7	0.7	0.8	0.8	0.8	0.9	1.1	1.6	3.4	4.4	4.6	3.6	3.4	2.8	1.5	1.0
135- 165	30	0.7	0.7	0.7	0.7	0.7	0.7	0.6	1.1	1.8	2.0	3.2	3.0	1.8	2.3	1.4	0.6	0.5
165- 195	30	0.4	0.4	0.4	0.4	0.4	0.3	0.6	1.1	1.7	1.8	1.8	2.0	1.2	1.4	0.6	0.3	0.2
195- 225	30	0.1	0.1	0.1	0.1	0.1	0.2	0.6	1.2	1.4	1.7	1.4	1.2	1.0	0.9	0.4	0.1	0.1

Table 6 (Continuation)

Equivalent dose rate from Disk for T= 10 y, t= 1 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5	6.0	6.0	6.2	6.5	6.8	7.4	8.5	12.0	21.0	47.0	105.1	253.9	622.6	1225.4	2117.6	3047.2	3790.0
5- 10	5	5.6	5.6	5.8	6.1	6.5	7.0	8.0	11.4	20.0	44.0	98.3	237.0	588.0	1166.4	2050.6	2988.2	3838.3
10- 20	10	5.0	5.0	5.1	5.3	5.7	6.2	7.2	10.2	18.1	40.1	89.2	219.2	537.6	997.9	1684.5	2525.5	3493.6
20- 30	10	4.9	5.0	5.2	5.4	5.8	6.2	7.2	10.3	18.2	40.1	87.1	215.5	472.2	756.9	1064.1	1321.3	1471.1
30- 40	10	5.1	5.1	5.4	5.6	5.9	6.5	7.4	10.7	18.9	40.3	85.2	202.1	385.1	514.4	601.4	650.3	564.8
40- 50	10	5.4	5.5	5.6	5.9	6.2	6.8	7.9	11.1	19.6	39.3	84.0	181.9	285.3	342.7	358.9	344.3	262.1
50- 65	15	5.7	5.8	5.9	6.2	6.6	7.1	8.3	11.6	19.8	36.1	85.0	144.7	201.5	208.2	205.3	174.5	115.8
65- 85	20	6.0	6.1	6.2	6.5	7.0	7.5	8.6	11.9	18.3	34.8	76.2	102.1	122.2	112.0	107.5	80.4	52.3
85- 110	25	6.2	6.2	6.4	6.6	7.1	7.6	8.7	11.2	13.6	38.5	47.7	69.6	67.5	57.7	55.3	34.5	22.8
110- 135	25	6.2	6.2	6.4	6.6	7.0	7.4	8.0	9.6	14.3	30.4	41.0	43.6	34.5	33.9	28.0	13.9	8.8
135- 165	30	5.7	5.7	5.8	5.8	5.8	5.7	5.3	9.6	15.1	18.1	30.0	28.5	17.7	22.6	13.7	5.5	3.5
165- 195	30	3.6	3.5	3.4	3.2	3.0	2.7	5.4	10.2	15.0	17.1	17.0	18.5	11.8	15.1	6.4	2.2	1.6
195- 225	30	1.6	1.5	1.5	1.6	1.8	2.3	5.8	10.7	13.2	15.7	13.6	10.8	10.1	9.9	3.2	1.1	0.9

Table 6 (Continuation)

Equivalent dose rate from Disk for T= 10 y, t= 3 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5	4.7	4.7	4.8	5.1	5.4	5.7	6.7	9.4	16.4	36.7	81.4	197.3	479.6	952.0	1640.4	2253.4	2863.0
5- 10	5	4.4	4.4	4.5	4.7	5.1	5.5	6.4	8.9	15.6	34.3	76.1	183.3	452.9	885.3	1564.9	2254.5	2865.1
10- 20	10	3.9	3.9	4.0	4.2	4.5	4.9	5.6	8.1	14.2	31.2	69.4	169.0	415.2	764.6	1298.4	1938.3	2767.6
20- 30	10	3.9	3.9	4.1	4.2	4.5	4.8	5.6	8.0	14.2	31.1	67.8	166.5	362.6	587.5	827.4	1027.4	1158.1
30- 40	10	4.0	4.1	4.2	4.3	4.6	5.0	5.8	8.3	14.7	31.3	66.1	157.6	299.1	401.3	476.9	512.2	445.5
40- 50	10	4.2	4.3	4.4	4.6	4.9	5.2	6.1	8.6	15.2	30.5	65.5	141.3	223.3	269.2	287.1	279.5	211.6
50- 65	15	4.4	4.5	4.6	4.8	5.1	5.5	6.4	9.0	15.3	28.0	65.9	113.1	157.3	164.5	163.9	143.5	96.7
65- 85	20	4.7	4.7	4.8	5.0	5.3	5.7	6.6	9.1	14.1	27.1	59.3	80.2	96.0	89.3	87.4	65.9	43.2
85- 110	25	4.8	4.9	5.0	5.2	5.5	5.9	6.7	8.6	10.7	29.9	37.6	55.0	53.8	46.6	44.7	28.1	18.6
110- 135	25	4.8	4.8	5.0	5.1	5.4	5.7	6.2	7.4	11.3	23.7	32.2	34.6	27.6	27.5	22.8	11.4	7.4
135- 165	30	4.4	4.4	4.5	4.5	4.5	4.5	4.1	7.6	11.7	14.3	23.6	22.6	14.4	18.2	11.2	4.6	3.0
165- 195	30	2.8	2.8	2.7	2.5	2.3	2.1	4.2	8.0	11.7	13.3	13.5	14.8	9.5	12.2	5.2	1.9	1.4
195- 225	30	1.2	1.2	1.2	1.3	1.5	1.9	4.5	8.2	10.5	12.3	10.8	8.6	8.2	8.1	2.5	1.0	0.8

Table 6 (Continuation)

Equivalent dose rate from Disk for T= 10 y, t= 5 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5	4.0	4.1	4.2	4.4	4.7	5.0	5.7	8.1	14.2	31.6	70.6	171.3	416.0	825.3	1385.6	1946.4	2453.0
5- 10	5	3.8	3.8	3.9	4.1	4.3	4.8	5.4	7.7	13.5	29.6	65.8	158.3	392.4	771.9	1359.0	1947.9	2553.0
10- 20	10	3.3	3.4	3.5	3.6	3.9	4.1	4.9	6.9	12.2	26.9	60.0	146.8	359.2	661.9	1118.5	1696.3	2356.2
20- 30	10	3.4	3.4	3.5	3.7	3.9	4.2	4.9	6.9	12.3	26.9	58.5	144.3	314.6	506.2	713.1	886.0	978.2
30- 40	10	3.5	3.5	3.6	3.8	4.0	4.3	5.1	7.2	12.6	27.1	57.1	135.4	257.6	345.8	407.2	436.8	383.0
40- 50	10	3.7	3.7	3.8	4.0	4.2	4.5	5.3	7.5	13.1	26.3	56.5	122.2	191.5	231.4	246.2	238.6	183.6
50- 65	15	3.9	3.9	4.0	4.2	4.4	4.8	5.6	7.8	13.2	24.2	57.1	98.0	136.5	142.1	141.8	122.6	83.1
65- 85	20	4.1	4.1	4.2	4.4	4.6	5.0	5.8	8.0	12.3	23.4	51.2	69.1	83.9	76.8	74.7	56.8	37.2
85- 110	25	4.2	4.2	4.3	4.5	4.8	5.1	5.8	7.5	9.2	25.9	32.4	47.4	46.3	40.0	38.5	24.4	16.3
110- 135	25	4.2	4.2	4.3	4.5	4.7	4.9	5.3	6.4	9.7	20.5	27.8	29.8	23.8	23.7	19.5	9.9	6.5
135- 165	30	3.8	3.8	3.8	3.8	3.9	3.9	3.6	6.6	10.1	12.4	20.3	19.6	12.3	15.7	9.5	4.0	2.7
165- 195	30	2.4	2.4	2.3	2.2	2.0	1.9	3.7	7.0	10.2	11.6	11.6	12.8	8.2	10.5	4.6	1.7	1.1
195- 225	30	1.0	1.0	1.0	1.0	1.3	1.6	3.9	7.1	9.1	10.6	9.4	7.4	7.1	6.8	2.2	0.8	0.7

Table 6 (Continuation)

Equivalent dose rate from Disk for T= 10 y, t= 30 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5	1.8	1.9	1.9	2.0	2.1	2.2	2.6	3.6	6.3	14.4	32.6	79.0	194.5	393.8	698.1	1003.8	1346.7
5- 10	5	1.7	1.7	1.8	1.9	2.0	2.1	2.5	3.5	6.0	13.5	30.3	73.5	182.7	364.4	662.4	982.1	1348.5
10- 20	10	1.4	1.5	1.5	1.6	1.8	1.9	2.2	3.1	5.5	12.3	27.7	67.7	167.2	310.1	520.9	755.5	1004.8
20- 30	10	1.5	1.5	1.6	1.6	1.7	1.9	2.2	3.1	5.6	12.5	27.1	66.9	146.2	231.6	315.3	376.6	394.3
30- 40	10	1.6	1.6	1.6	1.7	1.8	2.0	2.3	3.3	5.9	12.7	26.4	63.3	117.9	151.4	172.7	180.2	155.6
40- 50	10	1.7	1.7	1.7	1.8	1.9	2.1	2.4	3.5	6.2	12.3	25.9	56.7	86.2	99.9	101.3	96.6	73.5
50- 65	15	1.8	1.8	1.8	1.9	2.0	2.3	2.6	3.6	6.2	11.1	26.6	44.4	60.0	60.4	57.4	49.5	34.0
65- 85	20	1.9	1.9	1.9	2.0	2.1	2.4	2.7	3.7	5.7	10.7	23.8	30.8	36.2	32.2	30.5	23.4	16.0
85- 110	25	1.9	1.9	2.0	2.1	2.2	2.4	2.7	3.5	4.2	12.1	14.4	20.9	19.9	16.6	15.7	10.3	7.2
110- 135	25	1.9	1.9	2.0	2.0	2.1	2.4	2.5	3.0	4.4	9.4	12.5	13.0	10.2	9.7	8.1	4.3	3.1
135- 165	30	1.8	1.8	1.8	1.8	1.8	1.8	1.6	3.0	4.7	5.5	9.0	8.5	5.2	6.3	4.0	1.8	1.3
165- 195	30	1.2	1.1	1.1	1.0	0.9	0.9	1.7	3.2	4.6	5.2	5.1	5.5	3.3	4.2	1.9	0.8	0.6
195- 225	30	0.5	0.5	0.5	0.5	0.5	0.7	1.7	3.3	4.0	4.8	4.1	3.2	2.9	2.7	0.9	0.4	0.3

Table 6 (Continuation)

Equivalent dose rate from Disk for T= 10 y, t= 100 d

R/Z, cm		668.5	668-673	673-683	683-698	698-718	718-738	738-788	788-888	888-988	988-1088	1088-1138	1138-1188	1188-1208	1208-1223	1223-1233	1233-1238	12389
	dR\dZ	0	5	10	15	20	20	50	100	100	100	50	50	20	15	10	5	0
0- 5	5	1.1	1.1	1.1	1.1	1.2	1.3	1.5	2.1	3.7	8.3	18.6	45.2	109.9	220.2	384.6	556.2	718.0
5- 10	5	1.0	1.0	1.0	1.1	1.1	1.2	1.4	2.0	3.5	7.7	17.2	41.7	103.4	206.2	367.3	539.9	714.1
10- 20	10	0.9	0.9	0.9	1.0	1.0	1.1	1.2	1.8	3.1	7.1	15.8	38.7	94.5	174.9	289.8	422.7	563.7
20- 30	10	0.8	0.8	0.9	1.0	1.0	1.1	1.3	1.8	3.2	7.1	15.6	38.0	82.9	131.1	178.9	217.7	232.7
30- 40	10	0.9	0.9	1.0	1.0	1.1	1.2	1.3	1.9	3.4	7.2	15.0	35.8	66.6	87.7	101.0	105.2	92.7
40- 50	10	1.0	0.9	1.0	1.1	1.1	1.2	1.4	2.0	3.5	7.0	14.8	32.1	49.3	57.9	59.4	57.1	44.1
50- 65	15	1.1	1.1	1.1	1.1	1.2	1.3	1.4	2.1	3.6	6.3	15.1	25.3	34.3	35.1	33.4	29.0	19.7
65- 85	20	1.1	1.1	1.1	1.2	1.3	1.3	1.5	2.1	3.3	6.1	13.5	17.7	21.0	18.7	17.7	13.5	9.1
85- 110	25	1.1	1.2	1.2	1.2	1.3	1.4	1.5	2.0	2.4	6.8	8.3	12.0	11.4	9.6	9.1	5.9	4.2
110- 135	25	1.1	1.2	1.2	1.2	1.3	1.3	1.4	1.7	2.5	5.4	7.1	7.4	5.9	5.6	4.7	2.6	1.7
135- 165	30	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.7	2.7	3.1	5.2	4.8	3.0	3.7	2.3	1.1	0.7
165- 195	30	0.6	0.6	0.6	0.6	0.5	0.5	0.9	1.9	2.7	2.9	2.9	3.1	2.0	2.5	1.1	0.5	0.3
195- 225	30	0.3	0.3	0.3	0.3	0.3	0.4	1.0	1.9	2.2	2.7	2.3	1.8	1.6	1.6	0.5	0.2	0.2