

Fig. A5.1 General detector opening layout to calculations of access dose rate.

Table A5.1

Equivalent dose rate in the general access scenario for T= 2 y, t= 5 d

R/Z, cm	dR\dZ	280	280- 290	290- 315	315- 340	340	340- 350	350- 365	365- 380	380- 405	405- 430	430- 480	480- 530	530- 580	580- 630	630- 660	660- 670	670	
		0	10	25	25	0	10	15	15	25	25	50	50	50	50	30	10	0	
0- 5	5																		
5- 10	5					411.0	460.9	1062.5	4048.1	2349.5	1587.2	2110.3	3358.6	3036.7	2604.9	2468.4	2454.4	1401.2	
10- 20	10					358.8	394.3	651.9	1246.5	1083.6	839.8	1042.0	1516.7	1435.7	1274.1	1241.3	1264.8	786.9	
20- 30	10					292.5	315.3	424.1	584.8	594.2	536.1	634.7	849.9	838.5	773.6	771.0	796.1	542.9	
30- 45	15					243.6	255.4	291.4	345.5	369.5	369.5	425.4	532.8	541.6	517.6	527.3	551.8	388.7	
45- 60	15					205.1	211.3	213.4	233.9	252.1	266.1	301.5	359.3	372.9	368.8	378.5	394.7	282.3	
60- 75	15					164.9	168.4	169.1	179.0	192.1	205.9	231.0	266.9	280.8	282.0	286.6	291.9	202.5	
75- 95	20					135.4	136.7	136.4	141.7	150.4	161.7	179.9	202.3	213.8	215.9	214.8	211.9	140.1	
95- 115	20					119.6	118.0	114.0	115.3	120.9	129.3	141.3	155.7	165.2	164.6	159.3	154.1	96.6	
115- 125	10					109.0	107.4	101.4	101.5	105.6	111.7	121.0	131.8	138.9	137.0	130.4	124.7	75.4	
125- 150	25					91.7	90.1	88.3	88.8	91.4	95.8	102.6	110.9	114.5	112.3	105.6	100.4	59.2	
150- 175	25					75.7	74.5	73.7	74.1	75.8	78.1	82.9	88.4	90.0	86.2	80.5	76.3	43.0	
175- 200	25					63.0	62.1	62.4	63.1	63.9	65.6	68.8	71.8	72.2	68.0	63.5	59.6	32.1	
200- 225	25					53.8	52.8	52.7	53.2	53.5	55.0	57.8	59.4	59.1	54.7	51.0	47.6	24.5	

Table A5.1 (continuation)

Equivalent dose rate in the general access scenario for T= 2 y, t= 15 d

R/Z, cm	dR\dZ	280	280- 290	290- 315	315- 340	340	340- 350	350- 365	365- 380	380- 405	405- 430	430- 480	480- 530	530- 580	580- 630	630- 660	660- 670	670	
		0	10	25	25	0	10	15	15	25	25	50	50	50	50	30	10	0	
0- 5	5																		
5- 10	5					274.5	304.4	681.0	2572.3	1485.6	1004.1	1343.4	2161.9	1953.9	1669.9	1583.7	1585.1	924.6	
10- 20	10					240.1	260.1	419.9	794.3	688.0	533.6	665.8	976.4	923.5	818.5	802.3	827.7	533.4	
20- 30	10					195.1	208.7	275.2	374.7	379.3	342.5	406.7	547.7	539.8	497.3	499.4	524.0	371.3	
30- 45	15					164.6	171.7	190.8	223.4	237.6	237.1	273.4	343.4	348.6	332.5	339.9	357.9	258.2	
45- 60	15					140.8	144.4	141.2	152.2	163.7	171.6	194.0	231.2	239.8	236.7	243.1	253.6	182.2	
60- 75	15					112.7	114.4	112.1	117.5	125.2	133.1	148.8	171.4	180.5	180.8	183.5	186.9	129.7	
75- 95	20					92.1	93.3	91.0	93.7	98.3	104.6	115.9	130.3	137.4	138.5	137.4	135.5	89.7	
95- 115	20					81.8	80.5	76.2	76.4	79.2	84.1	91.7	100.5	106.2	105.6	102.0	98.7	62.0	
115- 125	10					74.9	73.4	68.0	67.1	69.2	72.8	78.6	85.0	89.3	88.0	83.6	79.9	48.5	
125- 150	25					62.3	61.3	59.0	59.0	60.1	62.8	66.6	71.6	74.0	72.1	67.7	64.4	38.1	
150- 175	25					50.9	49.9	49.2	49.3	49.9	51.5	53.9	57.2	58.1	55.6	51.8	48.9	27.9	
175- 200	25					42.7	41.6	41.6	41.8	42.1	42.8	44.8	46.9	46.8	43.7	40.9	38.3	20.7	
200- 225	25					36.0	35.2	35.2	35.2	35.2	36.1	37.9	38.4	38.6	35.3	32.9	30.6	15.9	

Table A5.1 (continuation)

Equivalent dose rate in the general access scenario for T= 2 y, t= 30 d

R/Z, cm	dR\dZ	280	280- 290	290- 315	315- 340	340	340- 350	350- 365	365- 380	380- 405	405- 430	430- 480	480- 530	530- 580	580- 630	630- 660	660- 670	670	
		0	10	25	25	0	10	15	15	25	25	50	50	50	50	30	10	0	
0- 5	5																		
5- 10	5					202.3	222.1	481.9	1796.2	1028.4	694.2	939.2	1529.8	1377.5	1166.5	1110.7	1120.9	666.3	
10- 20	10					176.8	189.0	297.3	555.3	478.7	371.3	466.8	691.0	651.8	574.7	567.0	593.7	393.9	
20- 30	10					143.1	151.4	196.3	263.6	266.1	239.8	286.1	387.3	381.2	349.9	354.3	377.7	278.4	
30- 45	15					122.0	126.5	137.3	158.8	167.9	167.2	192.9	243.0	246.2	234.1	241.0	256.9	188.8	
45- 60	15					106.2	108.5	102.5	109.4	116.5	121.7	137.4	163.5	169.2	166.7	171.8	179.3	129.9	
60- 75	15					84.6	86.0	82.0	84.8	89.4	94.8	105.5	121.1	127.3	127.3	129.4	131.4	91.8	
75- 95	20					69.0	69.4	67.0	67.7	70.6	74.7	81.9	92.2	97.2	97.3	96.8	95.5	63.7	
95- 115	20					61.4	60.2	56.1	55.4	57.0	60.2	65.1	71.4	74.9	74.2	72.1	69.4	44.1	
115- 125	10					56.6	55.0	50.1	49.1	50.0	52.2	56.1	60.2	63.1	61.8	59.1	56.2	34.4	
125- 150	25					46.7	45.4	43.4	43.2	43.5	45.1	47.5	50.7	52.4	50.9	48.1	45.4	27.1	
150- 175	25					37.9	37.1	36.3	36.2	36.6	36.8	38.4	40.9	41.3	39.4	36.8	34.4	19.8	
175- 200	25					31.6	30.9	30.7	30.5	30.4	30.8	32.1	33.4	33.1	31.1	29.0	27.0	14.8	
200- 225	25					26.8	25.9	25.4	25.6	25.6	26.0	27.2	27.6	27.4	25.2	23.3	21.5	11.4	

Table A5.1 (continuation)

Equivalent dose rate in the general access scenario for T= 2 y, t= 100 d

R/Z, cm	dR\dZ	280	280- 290	290- 315	315- 340	340	340- 350	350- 365	365- 380	380- 405	405- 430	430- 480	480- 530	530- 580	580- 630	630- 660	660- 670	670	
		0	10	25	25	0	10	15	15	25	25	50	50	50	50	30	10	0	
0- 5	5																		
5- 10	5					114.5	125.0	261.1	940.3	529.1	354.5	487.0	805.6	720.3	608.1	585.5	596.0	366.2	
10- 20	10					101.6	106.1	160.8	292.5	249.0	192.2	243.7	364.6	342.8	303.2	306.2	328.2	229.2	
20- 30	10					81.9	84.7	106.8	140.6	139.9	125.5	150.6	205.0	201.5	186.8	195.5	218.3	178.8	
30- 45	15					70.2	72.2	75.5	85.9	89.5	88.6	102.6	128.9	131.3	126.5	134.7	148.8	119.0	
45- 60	15					61.7	63.1	57.6	60.3	62.9	65.1	73.7	87.2	90.8	90.7	96.1	102.6	78.9	
60- 75	15					49.4	50.0	46.5	47.2	48.9	51.4	56.8	65.1	68.8	69.7	72.3	74.5	54.9	
75- 95	20					40.8	40.7	38.3	38.4	38.9	40.9	44.5	49.9	52.9	53.5	53.7	53.8	37.7	
95- 115	20					36.4	35.3	32.4	31.6	31.9	32.9	35.8	39.0	40.9	40.9	40.0	38.8	25.4	
115- 125	10					33.3	32.3	28.7	27.9	28.1	29.0	31.1	33.0	34.6	34.1	32.5	31.2	19.7	
125- 150	25					27.7	26.6	25.4	24.6	24.6	25.4	26.5	27.9	29.0	28.0	26.4	25.0	15.4	
150- 175	25					22.5	22.1	21.3	20.7	20.6	20.8	21.4	22.5	22.8	21.6	20.1	18.8	11.1	
175- 200	25					18.6	18.1	17.7	17.8	17.4	17.5	18.1	18.6	18.3	17.0	16.0	14.4	7.9	
200- 225	25					15.7	15.3	14.7	14.6	14.8	14.7	15.3	15.4	15.1	13.5	12.8	11.4	5.9	

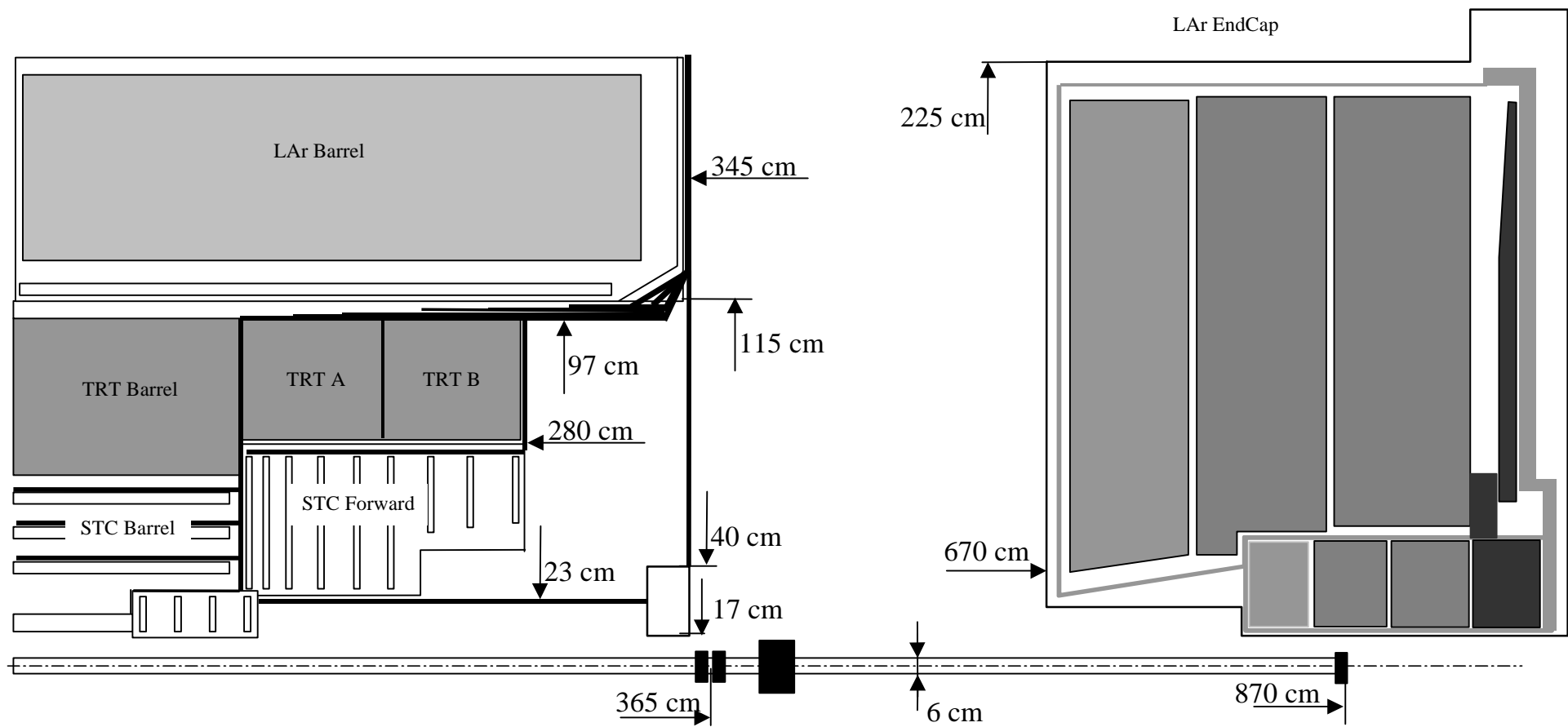


Fig. A5.2. Detector opening layout to calculations of access dose rate – TRT C removed.

Table A5.2

Equivalent dose rate in the ID access scenario for T= 2 y, t= 5 d —TRT C removed

R/Z, cm	dR\dZ	280	280- 290	290- 315	315- 340	340	340- 350	350- 365	365- 380	380- 405	405- 430	430- 480	480- 530	530- 580	580- 630	630- 660	660- 670	670	
		0	10	25	25	0	10	15	15	25	25	50	50	50	50	30	10	0	
0- 5	5																		
5- 10	5					410.6	460.5	1062.3	4047.9	2349.4	1587.1	2110.2	3358.6	3036.7	2604.9	2468.4	2454.4	1401.2	
10- 20	10					358.4	393.9	651.7	1246.3	1083.5	839.7	1041.9	1516.7	1435.7	1274.1	1241.3	1264.8	786.9	
20- 30	10					292.1	314.9	423.9	584.6	594.1	536.0	634.6	849.9	838.5	773.6	771.0	796.1	542.9	
30- 45	15					243.1	255.0	291.2	345.3	369.4	369.4	425.3	532.8	541.6	517.6	527.3	551.8	388.7	
45- 60	15					204.5	210.8	213.1	233.6	252.0	266.0	301.4	359.2	372.9	368.8	378.5	394.7	282.3	
60- 75	15					164.2	167.9	168.8	178.7	192.0	205.8	230.9	266.8	280.8	282.0	286.6	291.9	202.5	
75- 95	20					134.9	136.3	136.2	141.4	150.3	161.6	179.9	202.2	213.8	215.9	214.8	211.9	140.1	
95- 115	20					119.2	117.8	113.8	115.2	120.8	129.2	141.3	155.6	165.2	164.6	159.3	154.1	96.6	
115- 125	10					108.7	107.2	101.2	101.4	105.6	111.6	121.0	131.7	138.9	137.0	130.4	124.7	75.3	
125- 150	25					91.4	90.0	88.2	88.7	91.3	95.6	102.6	110.8	114.5	112.3	105.6	100.4	59.1	
150- 175	25					75.5	74.4	73.7	74.0	75.7	78.1	82.8	88.3	89.9	86.2	80.5	76.3	43.0	
175- 200	25					63.0	62.1	62.3	63.0	63.8	65.6	68.8	71.7	72.2	68.0	63.5	59.6	32.1	
200- 225	25					53.7	52.6	52.6	53.2	53.5	54.9	57.7	59.4	59.1	54.7	51.0	47.6	24.5	

Table A5.2 (continuation)

Equivalent dose rate in the ID access scenario for T= 2 y, t= 15 d —TRT C removed

R/Z, cm	dR\dZ	280	280- 290	290- 315	315- 340	340	340- 350	350- 365	365- 380	380- 405	405- 430	430- 480	480- 530	530- 580	580- 630	630- 660	660- 670	670	
		0	10	25	25	0	10	15	15	25	25	50	50	50	50	30	10	0	
0- 5	5																		
5- 10	5					274.5	304.4	680.9	2572.2	1485.6	1004.0	1343.4	2161.9	1953.9	1669.9	1583.7	1585.1	924.6	
10- 20	10					240.1	260.1	419.8	794.2	688.0	533.5	665.8	976.4	923.5	818.5	802.3	827.7	533.4	
20- 30	10					195.1	208.7	275.1	374.6	379.3	342.4	406.7	547.7	539.8	497.3	499.4	524.0	371.3	
30- 45	15					164.5	171.7	190.7	223.3	237.6	237.1	273.4	343.4	348.6	332.5	339.9	357.9	258.2	
45- 60	15					140.7	144.3	141.2	152.1	163.7	171.6	194.0	231.2	239.8	236.7	243.1	253.6	182.2	
60- 75	15					112.6	114.4	112.1	117.4	125.2	133.1	148.7	171.4	180.5	180.8	183.5	186.9	129.7	
75- 95	20					92.1	93.2	91.0	93.7	98.3	104.6	115.9	130.3	137.4	138.5	137.4	135.5	89.7	
95- 115	20					81.8	80.5	76.0	76.4	79.2	84.1	91.7	100.5	106.2	105.6	102.0	98.7	62.0	
115- 125	10					74.8	73.4	67.9	67.1	69.2	72.8	78.6	85.0	89.3	88.0	83.6	79.9	48.5	
125- 150	25					62.2	61.2	59.0	59.0	60.0	62.8	66.6	71.6	74.0	72.1	67.7	64.4	38.1	
150- 175	25					50.8	49.9	49.2	49.2	49.9	51.5	53.9	57.2	58.1	55.6	51.8	48.9	27.9	
175- 200	25					42.6	41.6	41.6	41.8	42.1	42.8	44.8	46.9	46.8	43.7	40.9	38.3	20.7	
200- 225	25					36.0	35.2	35.2	35.1	35.2	36.1	37.9	38.4	38.5	35.3	32.9	30.6	15.9	

Table A5.2 (continuation)

Equivalent dose rate in the ID access scenario for T= 2 y, t= 30 d —TRT C removed

R/Z, cm	dR\dZ	280	280- 290	290- 315	315- 340	340	340- 350	350- 365	365- 380	380- 405	405- 430	430- 480	480- 530	530- 580	580- 630	630- 660	660- 670	670	
		0	10	25	25	0	10	15	15	25	25	50	50	50	50	30	10	0	
0- 5	5																		
5- 10	5					202.3	222.1	481.9	1796.2	1028.4	694.2	939.2	1529.8	1377.5	1166.5	1110.7	1120.9	666.3	
10- 20	10					176.8	189.0	297.3	555.3	478.7	371.3	466.8	691.0	651.8	574.7	567.0	593.7	393.9	
20- 30	10					143.0	151.4	196.3	263.6	266.1	239.8	286.1	387.3	381.2	349.9	354.3	377.7	278.4	
30- 45	15					121.9	126.4	137.3	158.8	167.9	167.2	192.9	243.0	246.2	234.1	241.0	256.9	188.8	
45- 60	15					106.2	108.4	102.5	109.4	116.5	121.7	137.4	163.5	169.2	166.7	171.8	179.3	129.9	
60- 75	15					84.6	86.0	82.0	84.7	89.4	94.8	105.5	121.1	127.3	127.3	129.4	131.4	91.8	
75- 95	20					69.0	69.4	66.9	67.6	70.6	74.7	81.9	92.2	97.2	97.3	96.8	95.5	63.7	
95- 115	20					61.4	60.2	56.1	55.4	56.9	60.2	65.1	71.3	74.9	74.2	72.1	69.4	44.1	
115- 125	10					56.5	55.0	50.1	49.1	50.0	52.2	56.1	60.2	63.1	61.8	59.1	56.2	34.4	
125- 150	25					46.7	45.4	43.4	43.2	43.5	45.1	47.5	50.7	52.4	50.9	48.1	45.4	27.1	
150- 175	25					37.9	37.1	36.3	36.2	36.6	36.8	38.4	40.9	41.3	39.4	36.8	34.4	19.8	
175- 200	25					31.6	30.9	30.7	30.5	30.4	30.8	32.1	33.4	33.1	31.1	29.0	27.0	14.8	
200- 225	25					26.7	25.9	25.4	25.6	25.6	26.0	27.2	27.6	27.4	25.2	23.3	21.5	11.4	

Table A5.2 (continuation)

Equivalent dose rate in the ID access scenario for T= 2 y, t= 100 d —TRT C removed

R/Z, cm	dR\dZ	280	280- 290	290- 315	315- 340	340	340- 350	350- 365	365- 380	380- 405	405- 430	430- 480	480- 530	530- 580	580- 630	630- 660	660- 670	670	
		0	10	25	25	0	10	15	15	25	25	50	50	50	50	30	10	0	
0- 5	5																		
5- 10	5					114.5	125.0	261.1	940.3	529.1	354.5	487.0	805.6	720.3	608.1	585.5	596.0	366.2	
10- 20	10					101.6	106.1	160.8	292.5	249.0	192.2	243.7	364.6	342.8	303.2	306.2	328.2	229.2	
20- 30	10					81.9	84.7	106.8	140.6	139.9	125.5	150.6	205.0	201.5	186.8	195.5	218.3	178.8	
30- 45	15					70.2	72.2	75.5	85.9	89.5	88.6	102.6	128.9	131.3	126.5	134.7	148.8	119.0	
45- 60	15					61.7	63.0	57.6	60.2	62.9	65.1	73.7	87.2	90.8	90.7	96.1	102.6	78.9	
60- 75	15					49.4	50.0	46.5	47.2	48.9	51.4	56.8	65.1	68.8	69.7	72.3	74.5	54.9	
75- 95	20					40.8	40.7	38.3	38.4	38.9	40.9	44.5	49.9	52.9	53.5	53.7	53.8	37.7	
95- 115	20					36.4	35.3	32.4	31.6	31.9	32.9	35.8	39.0	40.9	40.9	40.0	38.8	25.4	
115- 125	10					33.3	32.3	28.7	27.9	28.1	29.0	31.1	33.0	34.6	34.1	32.5	31.2	19.7	
125- 150	25					27.7	26.6	25.4	24.6	24.6	25.4	26.4	27.9	29.0	28.0	26.4	25.0	15.4	
150- 175	25					22.5	22.1	21.3	20.7	20.6	20.8	21.4	22.5	22.8	21.6	20.1	18.8	11.1	
175- 200	25					18.6	18.1	17.7	17.8	17.4	17.5	18.1	18.6	18.3	17.0	16.0	14.4	7.9	
200- 225	25					15.7	15.3	14.7	14.6	14.8	14.7	15.3	15.4	15.1	13.5	12.8	11.4	5.9	

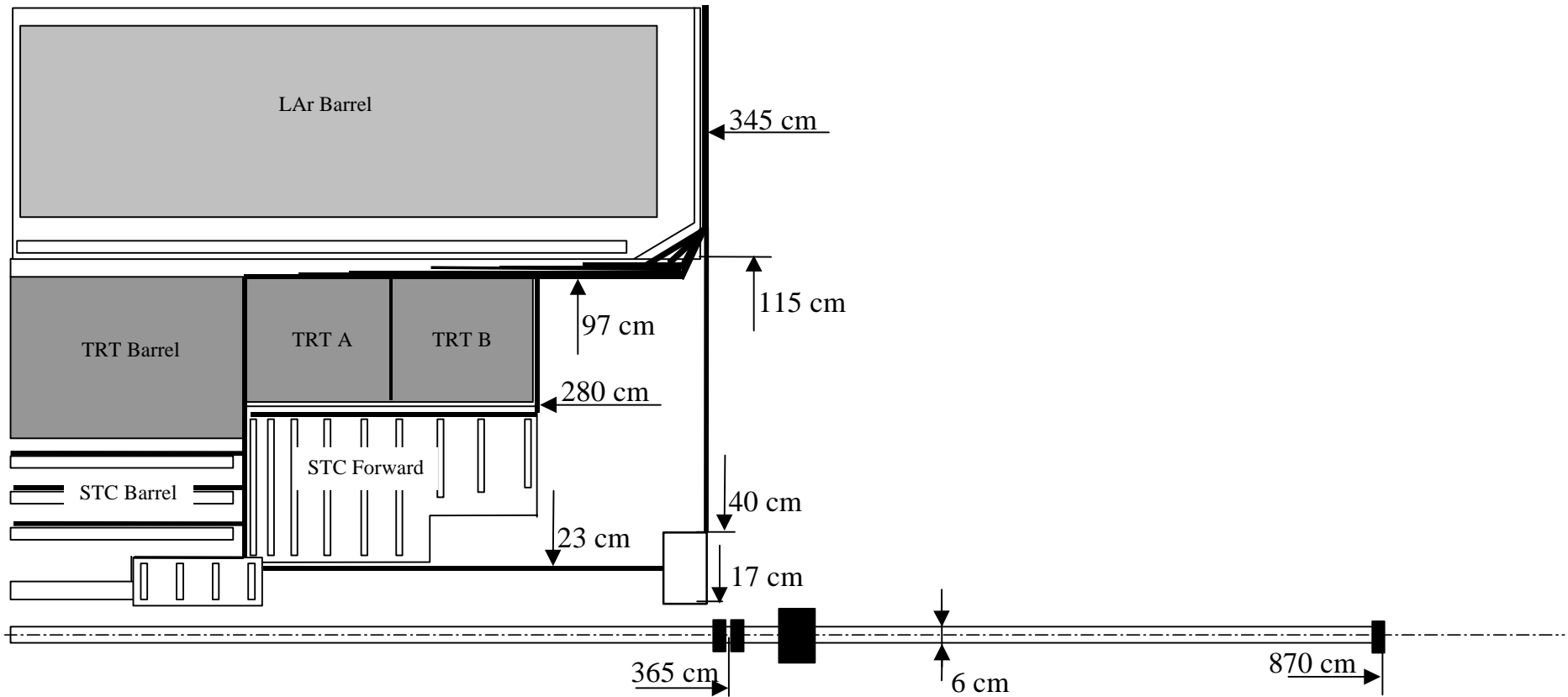


Fig. A5.3. Detector opening layout to calculations of access dose rate – TRT C, LAr EndCap removed.

Table A5.3

Equivalent dose rate in the ID access scenario for T= 2 y, t= 5 d -- TRT C, LAr EndCap removed

R/Z, cm	dR\dZ	280	280- 290	290- 315	315- 340	340	340- 350	350- 365	365- 380	380- 405	405- 430	430- 480	480- 530	530- 580	580- 630	630- 660	660- 670	670	
		0	10	25	25	0	10	15	15	25	25	50	50	50	50	30	10	0	
0- 5	5																		
5- 10	5					393.7	443.3	1044.2	4028.5	2328.1	1563.2	2080.9	3318.0	2975.3	2493.0	2269.4	2165.8	1072.0	
10- 20	10					342.3	377.5	634.3	1227.6	1063.0	816.6	1013.7	1477.5	1376.1	1171.4	1063.9	1016.2	503.5	
20- 30	10					276.8	299.3	407.4	567.0	574.7	514.3	608.1	813.0	782.4	680.6	617.6	588.7	292.1	
30- 45	15					229.1	240.8	276.3	329.5	352.1	350.0	401.6	500.0	493.0	438.6	399.1	381.0	188.9	
45- 60	15					192.1	198.2	199.9	219.5	236.8	248.9	280.4	330.2	330.6	300.5	275.0	262.9	130.3	
60- 75	15					153.1	156.6	156.9	166.2	178.3	190.4	211.8	240.5	242.6	224.1	206.2	197.9	97.9	
75- 95	20					125.0	126.3	125.8	130.3	138.1	147.6	162.2	178.4	181.1	169.1	157.0	150.9	74.6	
95- 115	20					110.5	109.0	104.4	105.1	109.5	116.2	125.3	135.3	137.1	129.3	120.8	116.9	57.7	
115- 125	10					100.5	98.9	92.2	91.7	94.7	99.3	106.4	113.2	114.5	108.6	102.0	98.7	48.5	
125- 150	25					83.4	81.8	79.5	79.3	81.0	84.3	89.6	94.2	95.0	90.5	85.3	82.7	40.7	
150- 175	25					67.7	66.5	65.4	65.3	66.5	68.3	71.7	74.8	75.2	71.8	67.9	66.1	32.4	
175- 200	25					55.8	54.8	54.9	55.3	55.9	57.4	59.5	61.1	61.2	58.6	55.7	54.1	26.5	
200- 225	25					47.3	46.2	46.2	46.9	47.2	48.2	49.6	51.0	51.0	48.7	46.4	45.1	22.1	

Table A5.3 (continuation)

Equivalent dose rate in the ID access scenario for T= 2 y, t= 15 d-- TRT C, LAr EndCap removed

R/Z, cm	dR\dZ	280	280- 290	290- 315	315- 340	340	340- 350	350- 365	365- 380	380- 405	405- 430	430- 480	480- 530	530- 580	580- 630	630- 660	660- 670	670	
		0	10	25	25	0	10	15	15	25	25	50	50	50	50	30	10	0	
0- 5	5																		
5- 10	5					263.6	293.2	669.0	2559.4	1471.6	988.1	1323.8	2134.4	1911.5	1591.5	1438.3	1370.5	679.5	
10- 20	10					229.4	249.3	408.3	782.0	674.4	518.2	647.0	949.9	882.9	747.3	675.5	643.2	318.9	
20- 30	10					185.0	198.4	264.2	362.9	366.5	327.9	388.9	522.8	502.1	434.1	392.4	373.4	185.1	
30- 45	15					155.2	162.3	180.7	212.8	226.1	224.1	257.5	321.6	316.4	279.9	253.6	241.6	119.8	
45- 60	15					132.4	135.9	132.3	142.8	153.5	160.3	180.2	212.4	212.4	192.0	174.9	167.3	82.9	
60- 75	15					105.1	106.8	104.3	109.1	116.2	123.1	136.5	154.7	155.9	143.3	131.4	125.9	62.3	
75- 95	20					85.6	86.6	84.2	86.5	90.5	95.9	104.9	115.1	116.3	108.4	100.1	96.1	47.5	
95- 115	20					76.3	74.9	70.2	70.1	72.2	75.9	81.5	87.3	88.4	82.9	77.2	74.4	36.7	
115- 125	10					69.7	68.2	62.4	61.1	62.4	64.9	69.1	73.2	73.8	69.7	65.1	62.9	31.0	
125- 150	25					57.3	56.2	53.5	53.0	53.4	55.3	58.3	61.1	61.3	58.1	54.4	52.7	26.0	
150- 175	25					45.8	44.8	43.7	43.5	43.9	45.2	46.9	48.6	48.7	46.1	43.4	42.1	20.8	
175- 200	25					37.8	36.8	36.8	36.9	37.1	37.7	39.0	39.9	39.7	37.5	35.6	34.6	17.0	
200- 225	25					32.0	31.2	31.3	31.2	31.4	31.9	32.6	33.1	33.2	31.3	29.6	28.9	14.2	

Table A5.3 (continuation)

Equivalent dose rate in the ID access scenario for T= 2 y, t= 30 d--- TRT C, LAr EndCap removed

R/Z, cm	dR\dZ	280	280- 290	290- 315	315- 340	340	340- 350	350- 365	365- 380	380- 405	405- 430	430- 480	480- 530	530- 580	580- 630	630- 660	660- 670	670	
		0	10	25	25	0	10	15	15	25	25	50	50	50	50	30	10	0	
0- 5	5																		
5- 10	5					194.3	214.0	473.3	1787.0	1018.2	682.7	924.8	1509.3	1345.5	1106.4	995.9	947.6	469.7	
10- 20	10					169.2	181.2	289.0	546.4	468.9	360.2	452.9	671.4	621.5	520.8	467.9	445.3	220.7	
20- 30	10					135.6	143.9	188.4	255.1	256.7	229.2	273.0	369.0	353.4	302.7	272.2	258.8	128.3	
30- 45	15					115.1	119.5	130.1	151.0	159.4	157.6	181.3	227.0	222.7	195.3	176.4	167.9	83.0	
45- 60	15					100.1	102.2	96.1	102.5	109.0	113.3	127.3	150.0	149.4	134.2	121.9	116.2	57.4	
60- 75	15					79.2	80.5	76.3	78.7	82.9	87.6	96.8	109.2	109.7	100.2	91.7	87.5	43.3	
75- 95	20					64.4	64.8	62.0	62.6	65.2	68.6	74.3	81.4	82.0	75.7	70.0	66.9	33.1	
95- 115	20					57.7	56.3	52.1	51.1	52.1	54.5	57.9	61.8	62.2	57.9	54.1	51.8	25.6	
115- 125	10					53.1	51.5	46.3	45.0	45.3	46.6	49.2	51.9	52.1	48.7	45.7	43.8	21.7	
125- 150	25					43.3	41.9	39.7	39.0	38.8	39.7	41.5	43.4	43.3	40.8	38.4	36.8	18.2	
150- 175	25					34.3	33.4	32.4	32.0	32.2	32.3	33.6	34.7	34.5	32.6	30.5	29.3	14.6	
175- 200	25					28.1	27.4	27.2	27.0	26.9	27.4	28.0	28.3	28.1	26.6	24.9	24.2	12.0	
200- 225	25					23.9	23.1	22.7	23.0	23.0	23.1	23.4	23.8	23.5	22.3	20.7	20.2	10.1	

Table A5.3 (continuation)

Equivalent dose rate in the ID access scenario for T= 2 y, t= 100 d-- TRT C, LAr EndCap removed

R/Z, cm	dR\dZ	280	280- 290	290- 315	315- 340	340	340- 350	350- 365	365- 380	380- 405	405- 430	430- 480	480- 530	530- 580	580- 630	630- 660	660- 670	670	
		0	10	25	25	0	10	15	15	25	25	50	50	50	50	30	10	0	
0- 5	5																		
5- 10	5					109.6	120.1	255.9	934.6	522.8	347.4	478.1	792.8	700.1	569.7	509.2	482.1	239.0	
10- 20	10					97.0	101.3	155.8	287.0	243.0	185.4	235.2	352.4	323.7	268.4	239.4	226.7	112.4	
20- 30	10					77.4	80.2	102.0	135.4	134.2	119.0	142.5	193.6	184.2	156.2	139.4	131.9	65.4	
30- 45	15					66.0	68.0	71.1	81.1	84.2	82.7	95.3	118.9	116.4	100.9	90.4	85.7	42.4	
45- 60	15					58.0	59.2	53.5	55.9	58.2	59.9	67.4	78.7	78.1	69.3	62.4	59.4	29.4	
60- 75	15					46.0	46.6	42.9	43.4	44.9	46.9	51.4	57.5	57.5	51.8	47.0	44.8	22.2	
75- 95	20					37.9	37.8	35.3	35.2	35.6	37.1	39.7	43.1	43.0	39.3	35.8	34.4	16.9	
95- 115	20					34.1	32.9	30.0	28.9	28.9	29.4	31.2	32.9	32.8	30.1	27.8	26.7	12.9	
115- 125	10					31.2	30.1	26.4	25.3	25.2	25.4	26.6	27.6	27.5	25.4	23.4	22.6	11.0	
125- 150	25					25.6	24.5	23.0	21.9	21.6	21.9	22.5	23.2	23.0	21.3	19.7	19.1	9.2	
150- 175	25					20.2	19.7	18.7	18.0	17.8	17.9	18.4	18.5	18.2	17.0	15.7	15.3	7.4	
175- 200	25					16.3	15.8	15.5	15.5	15.2	15.3	15.5	15.2	15.0	13.8	13.0	12.5	6.0	
200- 225	25					14.0	13.6	13.1	13.0	13.1	12.8	12.8	12.9	12.5	11.5	10.9	10.5	5.0	

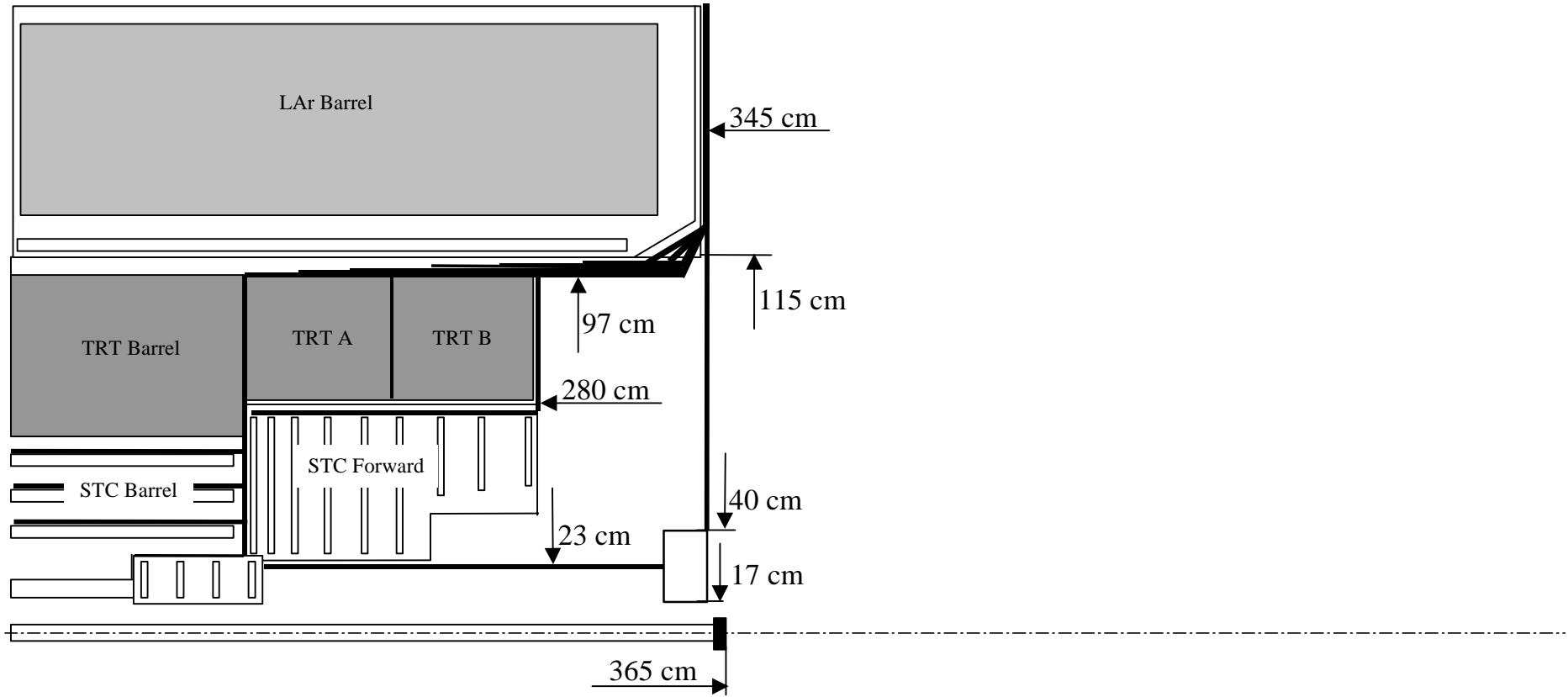


Fig. A5.4. Detector opening layout to calculations of access dose rate – TRT C, LAr EndCap, and VA removed.

Table A5.4

Equivalent dose rate in the ID access scenario for T= 2 y, t= 5 d – TRT C, LAr EndCap, and VA removed

R/Z, cm	dR\dZ	280	280- 290	290- 315	315- 340	340	340- 350	350- 365	365- 380	380- 405	405- 430	430- 480	480- 530	530- 580	580- 630	630- 660	660- 670	670
		0	10	25	25	0	10	15	15	25	25	50	50	50	50	30	10	0
0- 5	5								60.2	26.9	17.8	13.9	9.2	6.2	4.0	2.3	2.3	0.7
5- 10	5					106.5	89.2	70.6	46.5	26.4	17.9	13.9	9.2	6.2	4.1	2.3	2.3	0.7
10- 20	10					85.7	72.8	49.5	36.9	25.6	17.9	13.9	9.2	6.4	4.1	2.3	2.3	0.7
20- 30	10					62.8	56.6	41.9	33.0	24.8	18.1	13.5	9.2	6.6	4.1	2.3	2.3	0.7
30- 45	15					61.8	58.3	39.3	30.5	23.4	18.1	13.0	9.3	6.8	4.0	2.3	2.3	0.7
45- 60	15					63.1	61.2	37.1	28.5	22.2	17.7	12.6	9.2	6.8	4.0	2.3	2.2	0.7
60- 75	15					49.8	48.6	33.9	26.5	21.4	16.9	12.3	9.0	6.7	3.9	2.3	2.2	0.6
75- 95	20					41.7	40.2	30.6	24.7	20.0	16.2	12.3	8.4	6.8	3.8	2.3	2.2	0.6
95- 115	20					42.8	39.5	29.0	22.8	18.6	15.3	11.4	8.2	6.5	3.6	2.3	2.2	0.6
115- 125	10					41.4	38.3	27.2	21.5	17.6	14.4	11.2	8.0	6.2	3.6	2.3	2.2	0.5
125- 150	25					32.0	29.4	23.7	19.5	16.1	13.3	10.7	7.7	5.9	3.5	2.2	2.1	0.5
150- 175	25					24.7	22.7	19.3	16.5	14.0	11.6	9.4	7.3	5.6	3.4	2.2	2.0	0.5
175- 200	25					19.1	17.5	16.0	14.3	12.4	10.8	8.9	6.6	5.2	3.2	2.2	1.8	0.5
200- 225	25					15.4	14.0	12.8	11.9	10.3	9.0	7.5	6.1	4.8	2.9	2.0	1.7	0.5

Table A5.4 (continuation)

Equivalent dose rate in the ID access scenario for T= 2 y, t= 15 d – TRT C, LAr EndCap, and VA removed

R/Z, cm	dR\dZ	280	280- 290	290- 315	315- 340	340	340- 350	350- 365	365- 380	380- 405	405- 430	430- 480	480- 530	530- 580	580- 630	630- 660	660- 670	670
		0	10	25	25	0	10	15	15	25	25	50	50	50	50	30	10	0
0- 5	5								51.0	21.0	14.1	10.8	7.2	4.7	3.0	1.8	1.6	0.5
5- 10	5					82.8	70.6	59.0	38.6	20.8	14.2	10.8	7.2	4.7	3.0	1.8	1.6	0.5
10- 20	10					67.7	57.5	40.0	29.8	20.2	14.1	10.8	7.2	4.9	3.0	1.8	1.6	0.5
20- 30	10					49.8	45.1	33.5	25.9	19.4	14.2	10.6	7.2	5.0	2.9	1.8	1.6	0.5
30- 45	15					49.4	46.9	31.0	23.7	18.3	14.0	10.1	7.2	5.1	2.9	1.7	1.6	0.5
45- 60	15					50.8	49.3	29.5	21.9	17.5	13.7	9.7	7.0	5.2	3.0	1.7	1.6	0.5
60- 75	15					39.7	38.4	26.5	20.7	16.7	13.1	9.5	6.8	5.2	3.0	1.7	1.6	0.5
75- 95	20					32.9	32.0	23.8	19.4	15.6	12.5	9.4	6.5	5.1	3.0	1.7	1.6	0.5
95- 115	20					33.4	30.8	22.4	17.9	14.4	11.8	8.9	6.3	5.1	2.8	1.7	1.6	0.5
115- 125	10					32.2	29.7	21.1	16.5	13.4	10.9	8.5	6.2	4.8	2.8	1.6	1.6	0.5
125- 150	25					24.7	22.9	18.1	15.0	12.1	10.1	8.1	6.0	4.6	2.7	1.6	1.5	0.5
150- 175	25					18.5	17.0	14.5	12.5	10.6	9.1	7.2	5.5	4.3	2.5	1.6	1.4	0.5
175- 200	25					14.5	13.1	12.1	10.9	9.4	8.0	6.7	5.2	4.0	2.3	1.6	1.4	0.5
200- 225	25					11.7	10.7	10.0	9.0	7.9	6.9	5.8	4.5	3.8	2.2	1.4	1.3	0.5

Table A5.4 (continuation)

Equivalent dose rate in the ID access scenario for T= 2 y, t= 30 d – TRT C, LAr EndCap, and VA removed

R/Z, cm	dR\dZ	280	280- 290	290- 315	315- 340	340	340- 350	350- 365	365- 380	380- 405	405- 430	430- 480	480- 530	530- 580	580- 630	630- 660	660- 670	670
		0	10	25	25	0	10	15	15	25	25	50	50	50	50	30	10	0
0- 5	5								46.3	17.9	12.0	8.8	6.1	4.1	2.5	1.6	1.6	0.5
5- 10	5					69.0	59.7	53.5	34.2	17.6	12.0	8.8	6.0	4.1	2.5	1.6	1.6	0.5
10- 20	10					57.1	48.4	34.9	25.7	17.2	12.0	8.8	6.0	4.1	2.5	1.6	1.6	0.5
20- 30	10					42.2	38.0	28.8	22.0	16.4	11.9	8.7	6.0	4.3	2.5	1.6	1.6	0.5
30- 45	15					41.7	39.6	26.4	20.2	15.5	11.9	8.4	6.0	4.3	2.3	1.6	1.6	0.5
45- 60	15					43.5	42.1	24.8	18.7	14.8	11.4	8.1	5.9	4.3	2.4	1.6	1.5	0.5
60- 75	15					33.7	33.0	22.3	17.4	13.9	11.0	8.1	5.5	4.2	2.4	1.6	1.4	0.5
75- 95	20					27.8	26.9	20.0	16.0	13.1	10.5	7.7	5.4	4.2	2.3	1.6	1.4	0.5
95- 115	20					27.9	25.7	18.8	14.8	11.9	9.9	7.3	5.2	3.9	2.1	1.6	1.2	0.5
115- 125	10					26.9	24.8	17.6	13.9	11.3	9.0	6.9	5.1	3.8	2.1	1.6	1.2	0.5
125- 150	25					20.6	18.8	15.0	12.6	10.1	8.2	6.5	4.9	3.7	2.2	1.6	1.2	0.5
150- 175	25					15.3	14.1	12.0	10.4	8.9	7.2	5.9	4.6	3.6	2.2	1.4	1.1	0.5
175- 200	25					11.9	10.9	9.9	8.9	7.7	6.7	5.5	4.2	3.3	2.1	1.2	1.1	0.5
200- 225	25					9.8	8.9	7.9	7.5	6.7	5.7	4.7	3.8	3.0	2.0	1.1	1.0	0.5

Table A5.4 (continuation)

Equivalent dose rate in the ID access scenario for T= 2 y, t= 100 d – TRT C, LAr EndCap, and VA removed

R/Z, cm	dR\dZ	280	280- 290	290- 315	315- 340	340	340- 350	350- 365	365- 380	380- 405	405- 430	430- 480	480- 530	530- 580	580- 630	630- 660	660- 670	670
		0	10	25	25	0	10	15	15	25	25	50	50	50	50	30	10	0
0- 5	5								37.5	12.3	8.2	6.0	3.9	2.8	1.6	0.9	0.8	0.3
5- 10	5					45.6	41.2	42.0	26.4	12.3	8.2	6.0	3.9	2.8	1.6	0.9	0.8	0.3
10- 20	10					39.6	33.3	25.4	18.7	11.8	8.3	6.0	3.9	2.9	1.6	0.9	0.8	0.3
20- 30	10					29.4	25.9	20.1	15.6	11.3	8.2	5.9	3.9	2.9	1.6	0.9	0.8	0.3
30- 45	15					28.3	27.0	18.0	13.9	10.5	8.0	5.9	3.8	2.9	1.6	0.9	0.8	0.3
45- 60	15					28.9	28.3	16.9	12.9	9.8	7.6	5.8	3.7	2.8	1.5	0.8	0.8	0.3
60- 75	15					22.7	22.2	15.1	11.9	9.4	7.5	5.5	3.7	2.9	1.5	0.8	0.8	0.3
75- 95	20					19.1	18.3	13.7	11.2	8.7	7.1	5.3	3.7	2.8	1.5	0.8	0.8	0.2
95- 115	20					18.7	17.1	12.9	10.2	8.2	6.4	5.0	3.6	2.7	1.4	0.8	0.8	0.1
115- 125	10					17.8	16.4	11.6	9.3	7.6	6.0	4.8	3.4	2.6	1.4	0.8	0.8	0.1
125- 150	25					13.9	12.6	10.3	8.3	6.8	5.7	4.4	3.3	2.5	1.4	0.8	0.8	0.1
150- 175	25					10.4	9.8	8.2	6.9	5.9	5.0	4.2	3.0	2.3	1.4	0.8	0.8	0.1
175- 200	25					7.9	7.3	6.7	6.1	5.3	4.6	3.9	2.8	2.2	1.1	0.8	0.7	0.1
200- 225	25					6.7	6.2	5.5	5.1	4.7	3.9	3.2	2.6	2.0	1.1	0.8	0.6	0.1

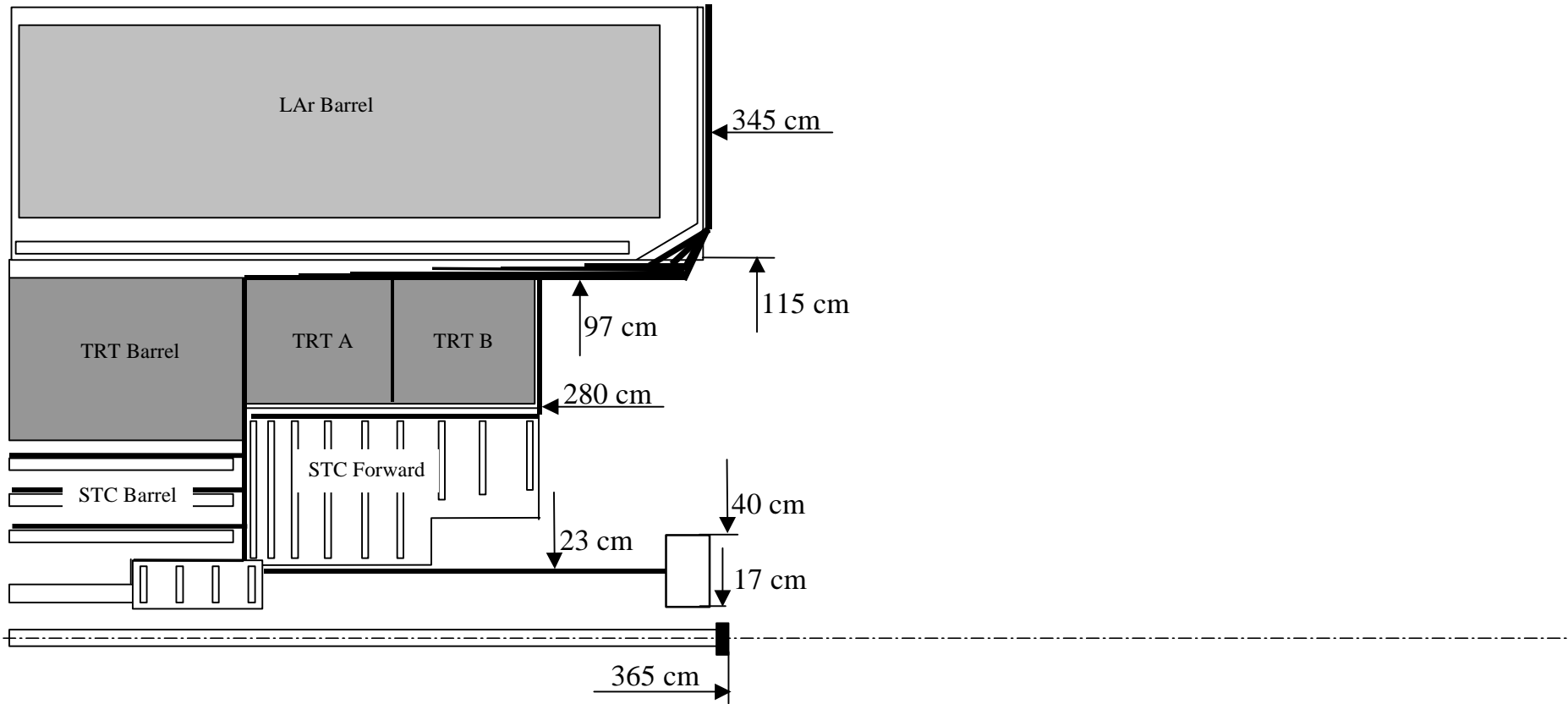


Fig. A5.5. Detector opening layout to calculations of access dose rate – TRT C, LAr EndCap, VA, and Pixel Tipe 2 services removed.

Table A5.5 (continuation)

Equivalent dose rate in the ID access scenario for T= 2 y, t= 5 d– TRT C, LAr EndCap, VA, and Pixel T1pe 2 services removed

R/Z, cm	dR\dZ	280	280- 290	290- 315	315- 340	340	340- 350	350- 365	365- 380	380- 405	405- 430	430- 480	480- 530	530- 580	580- 630	630- 660	660- 670	670
		0	10	25	25	0	10	15	15	25	25	50	50	50	50	30	10	0
0- 5	5								54.1	22.4	14.8	12.0	8.2	5.5	3.5	1.9	1.9	0.6
5- 10	5					98.4	81.1	63.1	40.3	21.9	14.9	12.0	8.2	5.5	3.6	1.9	1.9	0.6
10- 20	10					77.0	64.1	41.6	30.6	21.1	14.9	12.0	8.2	5.7	3.6	1.9	1.9	0.6
20- 30	10	42.2	41.2	38.3		52.4	46.3	33.1	26.4	20.2	15.1	11.7	8.2	5.9	3.6	1.9	1.9	0.6
30- 45	15	40.5	39.4	35.2		37.2	34.3	28.1	23.6	18.8	15.2	11.2	8.3	6.2	3.5	1.9	1.9	0.6
45- 60	15	43.6	40.4	34.0	31.0	28.8	27.8	24.9	21.6	17.9	14.9	10.9	8.2	6.2	3.5	1.9	1.9	0.6
60- 75	15	46.8	41.5	33.7	29.2	27.1	26.4	23.7	20.3	17.4	14.3	10.7	8.0	6.1	3.5	1.9	1.9	0.5
75- 95	20	44.1	40.8	34.5	29.7	27.5	26.3	23.2	19.7	16.6	13.9	10.8	7.5	6.2	3.4	1.9	1.9	0.5
95- 115	20					34.2	31.0	23.8	19.0	15.8	13.3	10.1	7.3	5.9	3.2	1.9	1.9	0.5
115- 125	10					35.1	32.0	23.2	18.4	15.2	12.6	9.9	7.2	5.7	3.2	1.9	1.9	0.4
125- 150	25					27.4	24.9	20.7	17.1	14.1	11.7	9.6	6.9	5.4	3.1	1.9	1.8	0.4
150- 175	25					21.7	19.7	17.2	14.7	12.5	10.4	8.5	6.6	5.1	3.0	1.9	1.7	0.4
175- 200	25					17.1	15.5	14.4	12.9	11.2	9.8	8.1	6.1	4.8	2.8	1.9	1.5	0.4
200- 225	25					14.0	12.6	11.7	10.9	9.4	8.2	6.8	5.6	4.4	2.6	1.7	1.4	0.4

Table A5.5 (continuation)

Equivalent dose rate in the ID access scenario for T= 2 y, t= 15 d– TRT C, LAr EndCap, VA, and Pixel Tipe 2 services removed

R/Z, cm	dR\dZ	280	280- 290	290- 315	315- 340	340	340- 350	350- 365	365- 380	380- 405	405- 430	430- 480	480- 530	530- 580	580- 630	630- 660	660- 670	670
		0	10	25	25	0	10	15	15	25	25	50	50	50	50	30	10	0
0- 5	5								45.9	17.2	11.5	9.2	6.3	4.2	2.6	1.5	1.3	0.4
5- 10	5					76.1	63.9	52.8	33.4	17.0	11.6	9.2	6.3	4.2	2.6	1.5	1.3	0.4
10- 20	10					60.4	50.3	33.4	24.5	16.4	11.5	9.2	6.3	4.4	2.6	1.5	1.3	0.4
20- 30	10	32.8	31.9	30.3		41.1	36.4	26.1	20.4	15.6	11.6	9.0	6.3	4.5	2.5	1.5	1.3	0.4
30- 45	15	31.7	30.5	27.3		28.9	26.8	21.6	17.8	14.5	11.6	8.7	6.3	4.6	2.5	1.4	1.3	0.4
45- 60	15	34.1	31.7	26.1	23.7	22.2	21.4	19.2	16.1	13.8	11.4	8.3	6.2	4.7	2.6	1.4	1.3	0.4
60- 75	15	36.1	32.1	26.1	22.5	20.6	19.8	18.0	15.5	13.4	10.9	8.2	6.0	4.7	2.6	1.4	1.3	0.4
75- 95	20	33.9	31.7	26.5	22.8	20.9	20.2	17.6	15.2	12.7	10.5	8.1	5.7	4.6	2.6	1.4	1.3	0.4
95- 115	20					26.1	23.6	18.1	14.7	12.0	10.1	7.7	5.6	4.6	2.4	1.4	1.3	0.4
115- 125	10					26.8	24.3	17.7	13.9	11.4	9.4	7.4	5.5	4.3	2.4	1.3	1.3	0.4
125- 150	25					20.7	19.0	15.5	12.9	10.5	8.8	7.2	5.3	4.2	2.4	1.3	1.2	0.4
150- 175	25					15.9	14.5	12.7	10.9	9.3	8.0	6.4	5.0	3.9	2.2	1.3	1.1	0.4
175- 200	25					12.7	11.5	10.8	9.7	8.4	7.2	6.0	4.7	3.6	2.0	1.3	1.1	0.4
200- 225	25					10.6	9.6	9.1	8.1	7.1	6.2	5.2	4.1	3.4	1.9	1.1	1.0	0.4

Table A5.5 (continuation)

Equivalent dose rate in the ID access scenario for T= 2y, t= 30 d– TRT C, LAr EndCap, VA, and Pixel Type 2 services removed

R/Z, cm	dR\dZ	280	280- 290	290- 315	315- 340	340	340- 350	350- 365	365- 380	380- 405	405- 430	430- 480	480- 530	530- 580	580- 630	630- 660	660- 670	670
		0	10	25	25	0	10	15	15	25	25	50	50	50	50	30	10	0
0- 5	5								41.8	14.6	9.8	7.5	5.3	3.6	2.1	1.3	1.3	0.4
5- 10	5					63.1	53.8	48.0	29.7	14.3	9.8	7.5	5.2	3.6	2.1	1.3	1.3	0.4
10- 20	10					50.9	42.2	29.2	21.1	13.9	9.8	7.5	5.2	3.6	2.1	1.3	1.3	0.4
20- 30	10	27.6	27.1	25.9		34.6	30.4	22.3	17.2	13.1	9.7	7.4	5.2	3.8	2.1	1.3	1.3	0.4
30- 45	15	26.6	25.6	23.2		24.1	22.3	18.3	15.2	12.2	9.8	7.1	5.2	3.8	2.0	1.3	1.3	0.4
45- 60	15	28.5	26.3	22.0	20.0	18.7	18.0	15.9	13.7	11.6	9.4	6.9	5.2	3.8	2.1	1.3	1.2	0.4
60- 75	15	29.9	26.6	21.8	18.8	17.1	16.8	14.9	12.8	11.0	9.1	6.9	4.8	3.8	2.1	1.3	1.1	0.4
75- 95	20	28.0	26.2	22.5	19.0	17.3	16.6	14.5	12.4	10.6	8.8	6.6	4.7	3.8	2.0	1.3	1.1	0.4
95- 115	20					21.5	19.4	15.0	12.0	9.8	8.4	6.3	4.5	3.5	1.8	1.3	0.9	0.4
115- 125	10					22.2	20.1	14.6	11.6	9.5	7.7	5.9	4.5	3.4	1.8	1.3	0.9	0.4
125- 150	25					17.1	15.3	12.7	10.7	8.7	7.1	5.7	4.3	3.3	1.9	1.3	0.9	0.4
150- 175	25					13.0	11.8	10.4	9.1	7.8	6.3	5.2	4.1	3.2	1.9	1.1	0.9	0.4
175- 200	25					10.4	9.4	8.8	7.9	6.8	6.0	4.9	3.8	3.0	1.8	0.9	0.9	0.4
200- 225	25					8.8	7.9	7.1	6.7	6.0	5.1	4.2	3.4	2.7	1.7	0.9	0.8	0.4

Table A5.5 (continuation)

Equivalent dose rate in the ID access scenario for T= 2 y, t= 100 d– TRT C, LAr EndCap, VA, and Pixel Tpe 2 services removed

R/Z, cm	dR\dZ	280	280- 290	290- 315	315- 340	340	340- 350	350- 365	365- 380	380- 405	405- 430	430- 480	480- 530	530- 580	580- 630	630- 660	660- 670	670
		0	10	25	25	0	10	15	15	25	25	50	50	50	50	30	10	0
0- 5	5								34.5	10.1	6.7	5.1	3.4	2.5	1.3	0.7	0.6	0.2
5- 10	5					41.7	37.3	38.4	23.4	10.0	6.7	5.1	3.4	2.5	1.3	0.7	0.6	0.2
10- 20	10					35.5	29.2	21.6	15.6	9.5	6.8	5.1	3.4	2.6	1.3	0.7	0.6	0.2
20- 30	10	19.6	19.3	18.2		24.4	21.0	15.8	12.4	9.0	6.7	5.0	3.4	2.6	1.3	0.7	0.6	0.2
30- 45	15	18.2	17.7	15.8		16.7	15.6	12.7	10.5	8.3	6.5	5.0	3.3	2.6	1.3	0.7	0.6	0.2
45- 60	15	18.9	17.6	14.9	13.4	12.5	12.3	11.0	9.5	7.6	6.3	4.9	3.2	2.5	1.3	0.6	0.6	0.2
60- 75	15	19.7	17.9	14.7	12.9	11.6	11.3	10.1	8.9	7.5	6.2	4.7	3.2	2.6	1.3	0.6	0.6	0.2
75- 95	20	18.8	17.5	15.1	12.9	11.9	11.3	10.0	8.7	7.0	5.9	4.5	3.2	2.5	1.3	0.6	0.6	0.2
95- 115	20					14.3	12.8	10.3	8.3	6.8	5.4	4.4	3.1	2.4	1.2	0.6	0.6	0.1
115- 125	10					14.5	13.2	9.6	7.7	6.4	5.1	4.2	3.0	2.3	1.2	0.6	0.6	0.1
125- 150	25					11.5	10.2	8.7	7.0	5.8	4.9	3.8	3.0	2.2	1.2	0.6	0.6	0.1
150- 175	25					8.8	8.2	7.1	6.0	5.1	4.4	3.7	2.7	2.0	1.2	0.6	0.6	0.1
175- 200	25					6.9	6.3	5.9	5.4	4.7	4.1	3.4	2.5	2.0	0.9	0.6	0.6	0.1
200- 225	25					5.9	5.4	4.9	4.6	4.2	3.4	2.9	2.3	1.8	0.9	0.6	0.5	0.1

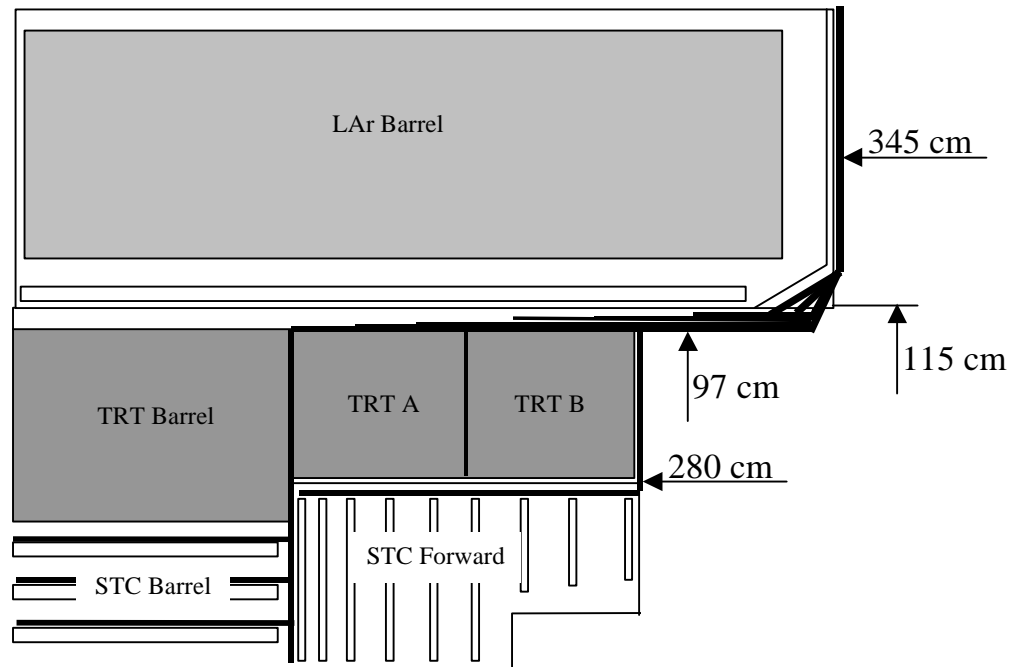


Fig. A5.6. Detector opening layout to calculations of access dose rate – TRT C, LAr EndCap, VA, Pixel Tipe 2 services, Pixel Detector, and VI removed.

Table A5.6 (continuation)

Equivalent dose rate in the ID access scenario for T= 2 y, t= 5 d– TRT C, LAr EndCap, VA, Pixel T1p2 services, Pixel
Detector, and VI removed

R/Z, cm	dR/dZ	280	280- 290	290- 315	315- 340	340	340- 350	350- 365	365- 380	380- 405	405- 430	430- 480	480- 530	530- 580	580- 630	630- 660	660- 670	670
		0	10	25	25	0	10	15	15	25	25	50	50	50	50	30	10	0
0- 5	5	31.5	30.8	26.1	23.4	21.9	20.5	18.2	17.1	15.7	11.9	10.5	7.4	4.9	3.0	1.6	1.6	0.5
5- 10	5	31.5	30.9	26.1	23.5	21.9	20.6	18.2	17.1	15.5	12.0	10.5	7.4	4.9	3.1	1.6	1.6	0.5
10- 20	10	32.0	31.2	26.3	23.5	22.0	20.6	18.5	17.2	15.3	12.1	10.5	7.4	5.1	3.1	1.6	1.6	0.5
20- 30	10	33.5	32.1	26.7	23.7	22.2	20.7	18.6	17.3	15.3	12.4	10.2	7.4	5.3	3.1	1.6	1.6	0.5
30- 45	15	34.7	33.3	27.6	23.9	22.2	20.8	19.0	17.3	14.9	12.8	9.8	7.5	5.6	3.0	1.6	1.6	0.5
45- 60	15	39.2	35.9	28.8	24.6	22.2	21.4	19.4	17.2	14.8	12.9	9.6	7.4	5.6	3.0	1.6	1.6	0.5
60- 75	15	43.3	38.0	29.9	25.1	22.9	22.3	19.9	17.1	14.9	12.5	9.5	7.2	5.5	3.0	1.6	1.6	0.4
75- 95	20	41.3	38.0	31.6	26.8	24.7	23.5	20.6	17.4	14.7	12.3	9.7	6.8	5.6	3.0	1.6	1.6	0.4
95- 115	20					32.1	29.0	21.9	17.2	14.3	12.0	9.2	6.6	5.4	2.9	1.6	1.6	0.4
115- 125	10					33.4	30.3	21.6	16.9	13.9	11.4	9.0	6.5	5.2	2.9	1.6	1.6	0.3
125- 150	25					26.0	23.5	19.3	15.8	12.9	10.7	8.8	6.3	4.9	2.8	1.6	1.5	0.3
150- 175	25					20.6	18.6	16.1	13.7	11.6	9.6	7.8	6.0	4.6	2.7	1.6	1.5	0.3
175- 200	25					16.1	14.6	13.5	12.0	10.4	9.0	7.4	5.6	4.4	2.5	1.6	1.3	0.3
200- 225	25					13.2	11.8	10.9	10.1	8.7	7.5	6.2	5.1	4.1	2.3	1.5	1.2	0.3

Table A5.6 (continuation)

Equivalent dose rate in the ID access scenario for T= 2 y, t= 15 d– TRT C, LAr EndCap, VA, Pixel Tipe 2 services, Pixel Detector, and VI removed

R/Z, cm	dR/dZ	280	280- 290	290- 315	315- 340	340	340- 350	350- 365	365- 380	380- 405	405- 430	430- 480	480- 530	530- 580	580- 630	630- 660	660- 670	670
		0	10	25	25	0	10	15	15	25	25	50	50	50	50	30	10	0
0- 5	5	23.5	23.2	19.9	17.7	16.3	15.5	13.8	13.0	11.7	9.1	7.9	5.6	3.7	2.3	1.3	1.1	0.3
5- 10	5	23.6	23.2	19.9	17.7	16.3	15.5	13.8	13.0	11.6	9.2	7.9	5.6	3.7	2.3	1.3	1.1	0.3
10- 20	10	23.9	23.7	20.1	17.9	16.4	15.6	13.9	13.0	11.6	9.2	7.9	5.6	3.9	2.3	1.3	1.1	0.3
20- 30	10	25.2	24.0	20.4	18.2	16.5	15.7	14.1	12.8	11.5	9.4	7.8	5.6	4.0	2.2	1.3	1.1	0.3
30- 45	15	26.7	25.3	21.0	18.2	16.7	15.9	14.2	12.7	11.3	9.6	7.6	5.6	4.1	2.2	1.2	1.1	0.3
45- 60	15	30.4	27.9	21.8	18.5	16.8	16.2	14.7	12.6	11.3	9.7	7.2	5.6	4.2	2.3	1.2	1.1	0.3
60- 75	15	33.2	29.2	23.0	19.1	17.3	16.6	15.0	12.9	11.4	9.4	7.2	5.4	4.2	2.3	1.2	1.1	0.3
75- 95	20	31.7	29.4	24.2	20.5	18.6	17.9	15.4	13.3	11.1	9.3	7.2	5.1	4.1	2.3	1.2	1.1	0.3
95- 115	20					24.5	22.0	16.6	13.3	10.7	9.0	6.9	5.0	4.1	2.1	1.2	1.1	0.3
115- 125	10					25.4	22.9	16.4	12.7	10.3	8.4	6.7	5.0	3.9	2.1	1.1	1.1	0.3
125- 150	25					19.5	17.8	14.4	11.9	9.6	8.0	6.5	4.8	3.8	2.1	1.1	1.0	0.3
150- 175	25					15.0	13.6	11.8	10.1	8.5	7.3	5.8	4.5	3.6	2.0	1.1	0.9	0.3
175- 200	25					11.9	10.7	10.0	9.0	7.7	6.6	5.5	4.2	3.3	1.8	1.1	0.9	0.3
200- 225	25					9.9	8.9	8.4	7.5	6.5	5.6	4.7	3.8	3.1	1.7	0.9	0.8	0.3

Table A5.6 (continuation)

Equivalent dose rate in the ID access scenario for T= 2 y, t= 30 d– TRT C, LAr EndCap, VA, Pixel Tipe 2 services, Pixel
Detector, and VI removed

R/Z, cm	dR\ dZ	280	280- 290	290- 315	315- 340	340	340- 350	350- 365	365- 380	380- 405	405- 430	430- 480	480- 530	530- 580	580- 630	630- 660	660- 670	670
		0	10	25	25	0	10	15	15	25	25	50	50	50	50	30	10	0
0- 5	5	19.4	19.0	16.6	14.8	13.4	12.6	11.7	10.7	9.5	7.7	6.4	4.7	3.2	1.8	1.1	1.1	0.3
5- 10	5	19.5	19.1	16.6	14.8	13.5	12.6	11.8	10.6	9.5	7.7	6.4	4.6	3.2	1.8	1.1	1.1	0.3
10- 20	10	19.8	19.2	16.8	14.7	13.4	12.6	11.8	10.6	9.5	7.7	6.4	4.6	3.2	1.8	1.1	1.1	0.3
20- 30	10	20.7	20.0	17.1	14.8	13.4	12.8	11.8	10.5	9.4	7.8	6.3	4.6	3.4	1.8	1.1	1.1	0.3
30- 45	15	22.1	21.0	17.6	15.2	13.6	12.9	11.8	10.6	9.3	8.0	6.1	4.6	3.4	1.8	1.1	1.1	0.3
45- 60	15	25.2	22.9	18.2	15.4	14.0	13.4	12.0	10.6	9.3	7.9	6.0	4.6	3.4	1.9	1.1	1.0	0.3
60- 75	15	27.4	24.1	19.1	15.8	14.2	13.9	12.3	10.5	9.2	7.8	6.0	4.3	3.4	1.9	1.1	0.9	0.3
75- 95	20	26.1	24.3	20.5	17.0	15.3	14.7	12.7	10.8	9.2	7.7	5.8	4.2	3.4	1.8	1.1	0.9	0.3
95- 115	20					20.1	18.0	13.7	10.8	8.7	7.5	5.6	4.0	3.1	1.6	1.1	0.7	0.3
115- 125	10					21.0	18.9	13.4	10.5	8.5	6.9	5.3	4.0	3.0	1.6	1.1	0.7	0.3
125- 150	25					16.1	14.4	11.8	9.8	7.9	6.4	5.1	3.8	3.0	1.7	1.1	0.7	0.3
150- 175	25					12.2	11.0	9.6	8.4	7.1	5.7	4.7	3.7	2.9	1.7	0.9	0.7	0.3
175- 200	25					9.7	8.7	8.1	7.3	6.2	5.5	4.4	3.4	2.8	1.6	0.7	0.7	0.3
200- 225	25					8.2	7.3	6.5	6.1	5.5	4.6	3.8	3.1	2.5	1.5	0.7	0.6	0.3

Table A5.6 (continuation)

Equivalent dose rate in the ID access scenario for T= 2 y, t= 100 d– TRT C, LAr EndCap, VA, Pixel Tipe 2 services, Pixel Detector, and VI removed

R/Z, cm	dR\dZ	280	280- 290	290- 315	315- 340	340	340- 350	350- 365	365- 380	380- 405	405- 430	430- 480	480- 530	530- 580	580- 630	630- 660	660- 670	670
		0	10	25	25	0	10	15	15	25	25	50	50	50	50	30	10	0
0- 5	5	13.1	12.6	11.0	9.8	8.9	8.3	7.8	7.2	6.1	5.1	4.3	3.0	2.2	1.1	0.6	0.5	0.1
5- 10	5	13.1	12.6	11.0	9.8	8.9	8.3	7.8	7.2	6.1	5.1	4.3	3.0	2.2	1.1	0.6	0.5	0.1
10- 20	10	13.3	12.9	11.3	9.7	9.1	8.4	7.8	7.1	6.1	5.2	4.3	3.0	2.3	1.1	0.6	0.5	0.1
20- 30	10	14.1	13.6	11.4	9.9	9.2	8.4	7.8	7.2	6.2	5.2	4.2	3.0	2.3	1.1	0.6	0.5	0.1
30- 45	15	14.9	14.2	11.6	9.9	9.1	8.8	7.9	7.1	6.1	5.2	4.2	2.9	2.3	1.1	0.6	0.5	0.1
45- 60	15	16.5	15.1	12.1	10.1	9.1	8.9	8.1	7.1	5.9	5.2	4.2	2.8	2.2	1.1	0.5	0.5	0.1
60- 75	15	17.9	16.0	12.7	10.7	9.4	9.2	8.2	7.2	6.1	5.2	4.0	2.8	2.3	1.1	0.5	0.5	0.1
75- 95	20	17.3	16.0	13.6	11.3	10.4	9.8	8.6	7.4	6.0	5.1	4.0	2.8	2.3	1.1	0.5	0.5	0.1
95- 115	20					13.2	11.7	9.3	7.3	5.9	4.8	3.9	2.7	2.2	1.0	0.5	0.5	0.0
115- 125	10					13.7	12.4	8.8	7.0	5.7	4.5	3.7	2.6	2.1	1.0	0.5	0.5	0.0
125- 150	25					10.8	9.5	8.0	6.4	5.2	4.4	3.4	2.6	2.0	1.0	0.5	0.5	0.0
150- 175	25					8.2	7.6	6.5	5.5	4.6	3.9	3.3	2.5	1.8	1.0	0.5	0.5	0.0
175- 200	25					6.4	5.8	5.4	4.9	4.2	3.7	3.0	2.3	1.8	0.8	0.5	0.5	0.0
200- 225	25					5.4	4.9	4.5	4.2	3.8	3.1	2.7	2.1	1.6	0.8	0.5	0.4	0.0