

# TABULATED DOSE UNIFORMITY RATIO AND MINIMUM DOSE DATA - RECTANGULAR COBALT-60 SOURCE PLAQUES

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December 1971

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The data tabulated herein extend to rectangular cobalt-60 plaques the information presented for square plaques in BNL 50145 (Revised). The user is referred to BNL 50145 (Revised) and to the other reports listed below for a complete discussion of the parameters involved in data generation and for instructions on the use of these data in gamma irradiator design.

The dimensions of the plaques covered herein are 20 inches x 30 inches, 20 x 60, 20 x 90, 20 x 120, 20 x 240, 30 x 40, 30 x 60, 30 x 90, 30 x 120, 30 x 240, 40 x 20, 40 x 60, 40 x 90, 40 x 120, 40 x 240, 60 x 90, 60 x 120, and 60 x 240.

Reports previously published in this series:

BNL 889, "Computational Methods of Gamma Irradiator Design,"

B. Manowitz, R. H. Bretton, L. Galanter, and F. X. Rizzo,  
(December 1964).

BNL 50126, "FUDGE 4A - A Computer Program for Gamma Dose Rate Distribution from Rectangular Sources," L. Galanter and K. Krishnamurthy, (August 1968).

BNL 50148, "GIRD - A Computer Program for Design of Shuffle-Dwell Gamma Irradiators," L. Galanter, S. Rosen, F. X. Rizzo, and L. Barguik, (March 1969).

BNL 50145 (Revised), "Tabulated Dose Uniformity Ratio and Minimum Dose Data for Gamma Irradiator Design," F. X. Rizzo, L. Galanter and K. Krishnamurthy, (December 1970).

BNL 50147 (Revised), "Tabulated Dose Distribution Data for Gamma Irradiator Design," F. X. Rizzo, L. Galanter, and K. Krishnamurthy, (December 1970).

BNL 50146, "Irradiator Design Calculational Techniques Based on Centerline Depth Dose Distributions," F. X. Rizzo, (December 1971).

BNL 50316, "Dose Distribution, Dose Uniformity, and Minimum Dose Data for Square Cesium-134 Source Plaques," L. Galanter, (November 1971).

The following reports are being published simultaneously:

BNL 50317, "Tabulated Dose Uniformity Ratio and Minimum Dose Data - Rectangular Cobalt-60 Source Plaques," L. Galanter, (December 1971).

BNL 50318, "Tabulated Dose Distribution Data - Rectangular Cobalt-60 Source Plaques," L. Galanter, (December 1971).

BNL 50319, "Tabulated Dose Uniformity Ratio and Minimum Dose Data - Rectangular Cesium-137 Source Plaques," L. Galanter, (December 1971).

BNL 50320, "Tabulated Dose Distribution Data - Rectangular Cesium-137 Source Plaques," L. Galanter, (December 1971).

Other reports are in preparation. The next will detail techniques for the modification of the tabulated data to encompass source and absorber alteration.

RECTANGULAR SLAB SOURCE = 20 IN. X 30 IN. AIR GAP = 0.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	99.3648E-02	10.0654E-01	10.0907E-01	10.1464E-01	10.1946E-01	10.1924E-01
4	10.7163E-01	10.6898E-01	10.6435E-01	11.0580E-01	10.9278E-01	10.8528E-01
6	12.8713E-01	11.6307E-01	11.5010E-01	12.3201E-01	11.9636E-01	11.8410E-01
8	13.2760E-01	12.8105E-01	12.5992E-01	13.8522E-01	13.321E-01	13.1174E-01
10	14.9065E-01	14.2085E-01	13.9191E-01	15.6501E-01	14.9284E-01	14.6786E-01
12	16.7593E-01	15.8204E-01	15.4557E-01	17.7243E-01	16.8180E-01	16.5334E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3526E-01	10.3297E-01	10.3032E-01	10.5625E-01	10.4753E-01	10.4272E-01
4	11.4431E-01	11.2210E-01	11.1231E-01	11.8801E-01	11.5759E-01	11.4594E-01
6	12.9041E-01	12.4915E-01	12.3402E-01	13.6289E-01	13.1484E-01	12.9973E-01
8	14.6973E-01	14.1202E-01	13.9363E-01	15.6137E-01	15.2032E-01	15.0430E-01
10	16.8434E-01	16.1250E-01	15.9246E-01	18.4890E-01	17.7830E-01	17.6302E-01
12	19.3762E-01	18.5331E-01	18.3310E-01	21.7241E-01	20.9501E-01	20.8127E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.7809E-01	10.6344E-01	10.5667E-01	11.2514E-01	10.9994E-01	10.8978E-01
4	12.3748E-01	11.9958E-01	11.8661E-01	13.5334E-01	13.0490E-01	12.9046E-01
6	14.5022E-01	13.9642E-01	13.8190E-01	16.7323E-01	16.1107E-01	15.9839E-01
8	17.2169E-01	16.5838E-01	16.4478E-01	20.9840E-01	20.3362E-01	20.2443E-01
10	20.6209E-01	19.9366E-01	19.8220E-01	26.3774E-01	25.9536E-01	25.8933E-01
12	24.8389E-01	24.1332E-01	24.0424E-01	33.8547E-01	33.2793E-01	33.2416E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	34.1465E+04	36.9396E+04	73.1598E+04	32.7680E+04	34.3284E+04	69.5010E+04
4	27.6651E+04	41.5877E+04	49.7509E+04	26.3014E+04	29.2327E+04	46.5290E+04
6	22.7931E+04	32.0324E+04	36.7567E+04	21.5604E+04	24.9190E+04	33.8598E+04
8	19.0997E+04	25.3724E+04	28.5699E+04	17.9743E+04	23.6197E+04	29.9269E+04
10	16.2202E+04	20.9444E+04	22.9765E+04	15.1726E+04	19.1224E+04	26.3414E+04
12	13.9226E+04	17.4857E+04	18.9327E+04	12.9313E+04	15.7705E+04	16.6819E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	31.3766E+04	51.4235E+04	65.1443E+04	30.0049E+04	48.6384E+04	60.6309E+04
4	24.7720E+04	36.3155E+04	42.6997E+04	23.1904E+04	33.2434E+04	30.1345E+04
6	20.0470E+04	27.0447E+04	30.1323E+04	18.4340E+04	24.2534E+04	26.5902E+04
8	16.4997E+04	21.0393E+04	22.9957E+04	14.9871E+04	18.3914E+04	19.3724E+04
10	13.7408E+04	16.7283E+04	17.5742E+04	12.1924E+04	14.3272E+04	14.7948E+04
12	11.5435E+04	13.5508E+04	14.0281E+04	10.7930E+04	11.3890E+04	11.6142E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	28.6718E+04	45.4996E+04	56.1732E+04	26.1451E+04	46.0102E+04	47.9919E+04
4	21.6232E+04	39.2390E+04	39.0646E+04	18.6847E+04	24.8272E+04	27.0553E+04
6	16.8277E+04	28.4898E+04	22.9649E+04	13.8431E+04	18.7080E+04	17.3688E+04
8	13.3277E+04	19.9241E+04	16.3179E+04	10.4541E+04	11.8198E+04	12.0215E+04
10	10.6737E+04	12.1465E+04	12.8944E+04	79.8172E+03	86.4349E+03	87.0549E+03
12	9.1372E+03	94.4499E+03	95.6877E+03	61.3794E+03	64.6118E+03	64.8122E+03

RECTANGULAR SLAB SOURCE = 20 IN. X 30 IN. AIR GAP = 1.0 IN. X = 0.00 Y = 0

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3303E-01	10.2853E-01	10.2559E-01	10.4290E-01	10.3504E-01	10.3089E-01
4	11.1326E-01	10.9362E-01	10.8395E-01	11.3284E-01	11.0820E-01	10.9736E-01
6	12.2176E-01	11.9333E-01	11.6659E-01	12.5106E-01	12.0869E-01	11.9167E-01
8	13.5323E-01	12.9501E-01	12.7047E-01	13.9450E-01	13.3450E-01	13.1227E-01
10	15.0607E-01	14.2647E-01	13.9462E-01	15.6308E-01	14.8567E-01	14.5928E-01
12	16.7980E-01	15.7762E-01	15.3862E-01	17.5757E-01	16.6306E-01	16.3354E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.5270E-01	10.4219E-01	10.3713E-01	10.6301E-01	10.5032E-01	10.4452E-01
4	11.5611E-01	11.2776E-01	11.1634E-01	11.8405E-01	11.5269E-01	11.4103E-01
6	12.9194E-01	12.4706E-01	12.3105E-01	13.4528E-01	12.9879E-01	12.8409E-01
8	14.5935E-01	13.9986E-01	13.8104E-01	15.4840E-01	14.9028E-01	14.7486E-01
10	16.6026E-01	15.8788E-01	15.6777E-01	17.9812E-01	17.3130E-01	17.1659E-01
12	18.9751E-01	18.1378E-01	17.9357E-01	21.0045E-01	20.2729E-01	20.1410E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.7422E-01	10.5963E-01	10.5321E-01	11.0038E-01	10.8237E-01	10.7494E-01
4	12.1729E-01	11.8335E-01	11.7165E-01	13.0136E-01	12.6308E-01	12.5176E-01
6	14.1190E-01	13.6423E-01	13.5103E-01	15.8847E-01	15.3958E-01	15.2932E-01
8	16.6305E-01	14.0669E-01	13.9431E-01	19.7763E-01	19.2941E-01	19.1778E-01
10	19.7949E-01	19.1816E-01	19.0746E-01	24.9244E-01	24.4120E-01	24.3069E-01
12	23.7226E-01	23.0864E-01	23.0026E-01	31.6370E-01	31.1571E-01	31.1248E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	27.9606E+04	47.1591E+04	61.1321E+04	27.3483E+04	45.8023E+04	59.0343E+04
4	22.9524E+04	35.0484E+04	42.3209E+04	22.2272E+04	33.5856E+04	40.1351E+04
6	19.1985E+04	27.3858E+04	31.6859E+04	18.4540E+04	25.9137E+04	29.5273E+04
8	16.2881E+04	22.1097E+04	24.8806E+04	15.5437E+04	20.6542E+04	22.7948E+04
10	13.9729E+04	18.2731E+04	20.1734E+04	13.2320E+04	16.8461E+04	18.1794E+04
12	12.0959E+04	15.3712E+04	16.7364E+04	11.3584E+04	13.9794E+04	14.8415E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	26.4636E+04	44.1107E+04	56.2577E+04	25.0292E+04	42.2320E+04	53.1565E+04
4	21.3216E+04	31.5867E+04	37.1053E+04	20.3099E+04	29.3598E+04	33.8280E+04
6	17.4470E+04	23.8506E+04	26.3990E+04	16.3036E+04	21.4049E+04	23.5817E+04
8	14.4844E+04	16.6248E+04	20.0754E+04	13.2800E+04	16.4821E+04	17.4004E+04
10	12.1470E+04	14.8954E+04	15.6932E+04	10.9237E+04	12.9099E+04	13.3423E+04
12	10.2651E+04	12.1276E+04	12.5800E+04	9.04994E+03	10.2920E+04	10.5098E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	25.1628E+04	40.2702E+04	49.9547E+04	23.5864E+04	36.3410E+04	43.7442E+04
4	19.2449E+04	27.0894E+04	30.8142E+04	17.8928E+04	22.7988E+04	24.8849E+04
6	15.1075E+04	19.3452E+04	20.7452E+04	12.7544E+04	15.4238E+04	16.0555E+04
8	12.0375E+04	14.4409E+04	14.9947E+04	9.6704E+03	10.9508E+04	11.1419E+04
10	9.8443E+03	11.0582E+04	11.2914E+04	7.0317E+03	8.2536E+03	8.0437E+03
12	7.8449E+03	8.4140E+03	8.74113E+03	5.0440E+03	6.01032E+03	6.02950E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 20 IN. X 30 IN. AIR GAP = 2.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2075E-01	10.2453E-01	10.2202E-01	10.3321E-01	10.2771E-01	10.2473E-01
4	10.9535E-01	10.7939E-01	10.7133E-01	11.0588E-01	10.8793E-01	10.7980E-01
6	11.8711E-01	11.5592E-01	11.4136E-01	12.0491E-01	11.7255E-01	11.5084E-01
8	12.9988E-01	12.5131E-01	12.3000E-01	13.2735E-01	12.7985E-01	12.6135E-01
10	14.3197E-01	13.6440E-01	13.3635E-01	14.7259E-01	14.0965E-01	13.8722E-01
12	15.8257E-01	14.9469E-01	14.6002E-01	16.4086E-01	15.6252E-01	15.3706E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3731E-01	10.3120E-01	10.2903E-01	10.4155E-01	10.3529E-01	10.3210E-01
4	11.1878E-01	11.0018E-01	10.9213E-01	11.3151E-01	11.1659E-01	11.0901E-01
6	12.3149E-01	11.9981E-01	11.8772E-01	12.4810E-01	12.3775E-01	12.2742E-01
8	13.7377E-01	13.2961E-01	13.1477E-01	14.0430E-01	13.9997E-01	13.8051E-01
10	15.4651E-01	14.9081E-01	14.7450E-01	16.3476E-01	16.0634E-01	15.9501E-01
12	17.5159E-01	16.8551E-01	16.6876E-01	19.1602E-01	18.6132E-01	18.5008E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.4630E-01	10.4019E-01	10.3707E-01	10.5833E-01	10.5292E-01	10.5004E-01
4	11.5267E-01	11.3736E-01	11.3066E-01	12.1103E-01	11.9343E-01	11.8759E-01
6	13.1566E-01	12.8680E-01	12.7812E-01	14.4890E-01	14.2079E-01	14.1475E-01
8	15.2830E-01	14.9167E-01	14.8300E-01	17.7579E-01	17.4542E-01	17.4033E-01
10	17.9982E-01	16.9795E-01	17.5027E-01	22.4619E-01	21.8467E-01	21.8129E-01
12	21.3897E-01	20.9942E-01	20.8761E-01	27.9355E-01	27.6278E-01	27.6055E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	23.0942E+04	39.4412E+04	51.3716E+04	22.7931E+04	38.6647E+04	50.2530E+04
4	19.2850E+04	29.8054E+04	36.3750E+04	18.8691E+04	28.8856E+04	34.7841E+04
6	16.3470E+04	23.6389E+04	27.3662E+04	15.8716E+04	22.9592E+04	25.8749E+04
8	14.0186E+04	19.2741E+04	21.8420E+04	13.5027E+04	18.1429E+04	20.1335E+04
10	12.1304E+04	16.0577E+04	17.8367E+04	11.5983E+04	14.9839E+04	16.1363E+04
12	10.5804E+04	13.9996E+04	14.8896E+04	10.0169E+04	12.4419E+04	13.2579E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	22.4289E+04	37.8913E+04	48.3475E+04	22.0144E+04	36.3534E+04	46.1177E+04
4	18.3058E+04	27.4391E+04	32.4458E+04	17.4271E+04	28.7628E+04	36.8467E+04
6	15.1726E+04	20.9584E+04	21.4932E+04	14.3391E+04	19.1649E+04	21.0002E+04
8	12.7173E+04	16.5003E+04	17.8550E+04	11.7877E+04	14.7328E+04	15.9355E+04
10	10.7460E+04	13.2808E+04	14.8325E+04	97.8426E+03	11.5978E+04	12.0148E+04
12	91.3872E+03	10.8494E+04	11.2990E+04	81.3568E+03	92.9518E+03	95.0235E+03

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	21.5604E+04	34.9946E+04	43.7390E+04	20.5496E+04	32.1455E+04	38.9543E+04
4	16.8868E+04	24.8054E+04	27.2503E+04	15.3079E+04	20.5794E+04	22.5233E+04
6	13.4344E+04	17.8663E+04	18.6448E+04	11.5768E+04	14.8649E+04	14.6504E+04
8	10.7990E+04	13.0234E+04	13.5483E+04	88.4621E+03	10.8439E+04	10.2266E+04
10	87.4413E+03	10.8248E+04	10.2454E+04	48.8873E+03	79.9422E+03	74.5140E+03
12	71.1423E+03	79.8619E+03	79.6127E+03	52.6759E+03	55.9628E+03	55.7444E+03

RECTANGULAR SLAB SOURCE = 20 IN. X 30 IN. AIR GAP = 3.0 IN. DENSITY = 6.00% W/O

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2310E-01	10.2014E-01	10.1827E-01	10.2509E-01	10.2167E-01	10.1968E-01
4	10.7876E-01	10.6864E-01	10.6035E-01	10.8424E-01	10.7172E-01	10.6365E-01
6	11.5734E-01	11.3243E-01	11.2617E-01	11.6802E-01	11.4376E-01	11.3277E-01
8	12.5520E-01	12.1504E-01	11.9660E-01	12.7354E-01	12.3619E-01	12.2092E-01
10	13.7056E-01	13.1334E-01	12.8965E-01	13.9982E-01	13.4874E-01	13.2965E-01
12	15.0249E-01	14.2678E-01	13.9592E-01	15.4675E-01	14.8176E-01	14.5974E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2646E-01	10.2330E-01	10.2166E-01	10.2771E-01	10.2580E-01	10.2378E-01
4	10.9113E-01	10.7395E-01	10.7408E-01	11.0052E-01	10.9099E-01	10.8611E-01
6	11.8540E-01	11.6369E-01	11.5468E-01	12.1095E-01	11.9240E-01	11.8537E-01
8	13.0733E-01	12.7508E-01	12.6345E-01	13.5814E-01	13.3129E-01	13.2294E-01
10	14.5713E-01	14.168E-01	14.0146E-01	15.4401E-01	15.0988E-01	15.0125E-01
12	16.3604E-01	15.8416E-01	15.7027E-01	17.7202E-01	17.3189E-01	17.2369E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2517E-01	10.2783E-01	10.2674E-01	10.3365E-01	10.3503E-01	10.3486E-01
4	11.1317E-01	11.0531E-01	11.0167E-01	11.5019E-01	11.4614E-01	11.4405E-01
6	12.4567E-01	12.3029E-01	12.2497E-01	13.4981E-01	13.3569E-01	13.3281E-01
8	14.2735E-01	14.0542E-01	13.9962E-01	16.2714E-01	16.1275E-01	16.1019E-01
10	16.6274E-01	16.3574E-01	16.3030E-01	20.0884E-01	19.9210E-01	19.9005E-01
12	19.5862E-01	19.2825E-01	19.2399E-01	25.1220E-01	24.9455E-01	24.9312E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/50 CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	19.3582E+04	33.6114E+04	44.0161E+04	19.1985E+04	32.9342E+04	43.1307E+04
4	16.3965E+04	25.7089E+04	31.5613E+04	16.1440E+04	25.0150E+04	30.3451E+04
6	14.0532E+04	20.5785E+04	24.1767E+04	13.7397E+04	19.7525E+04	22.8022E+04
8	12.1595E+04	16.9257E+04	19.3112E+04	11.7918E+04	16.0177E+04	17.8724E+04
10	10.6047E+04	14.2029E+04	15.8742E+04	10.1865E+04	13.2461E+04	14.4246E+04
12	93.1244E+03	12.1030E+04	13.3236E+04	88.7098E+03	11.1202E+04	11.8899E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	18.9896E+04	32.2216E+04	41.7499E+04	18.7391E+04	31.3460E+04	40.0742E+04
4	15.7878E+04	23.9219E+04	28.4737E+04	15.3004E+04	22.6185E+04	26.3531E+04
6	13.2320E+04	18.4712E+04	20.3134E+04	12.8095E+04	17.0960E+04	18.7101E+04
8	11.1930E+04	14.6577E+04	15.8238E+04	10.4608E+04	13.1728E+04	13.9894E+04
10	95.2837E+03	11.8766E+04	12.5798E+04	87.2821E+03	10.4303E+04	16.8250E+04
12	81.5413E+03	97.6562E+03	10.1738E+04	79.1610E+03	83.9789E+03	85.9713E+03

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	18.4540E+04	30.3425E+04	38.2422E+04	17.8031E+04	28.2281E+04	34.4582E+04
4	14.7681E+04	21.2201E+04	24.2075E+04	13.5880E+04	18.4321E+04	20.2454E+04
6	11.9885E+04	15.5167E+04	16.7110E+04	10.4251E+04	12.7375E+04	13.2883E+04
8	96.6270E+03	11.7227E+04	12.2168E+04	86.4135E+03	91.6336E+03	93.3500E+03
10	78.7949E+03	96.7394E+03	92.8342E+03	62.3015E+03	67.8098E+03	66.3548E+03
12	64.5192E+03	71.5201E+03	72.4352E+03	48.4404E+03	51.1494E+03	51.3453E+03



RECTANGULAR SLAB SOURCE = 20 IN. X 30 IN. AIR GAP = 4.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1910E-01	10.1699E-01	10.1951E-01	10.1974E-01	10.1758E-01	10.1620E-01
4	10.6663E-01	10.5719E-01	10.8193E-01	10.6914E-01	10.6017E-01	10.7532E-01
6	11.3921E-01	11.1480E-01	11.0429E-01	11.4132E-01	11.2267E-01	11.1967E-01
8	12.2150E-01	11.8752E-01	11.7126E-01	12.3363E-01	12.0360E-01	11.9057E-01
10	13.2370E-01	12.7425E-01	13.5218E-01	14.4995E-01	13.0265E-01	12.8613E-01
12	14.4075E-01	13.7444E-01	13.9657E-01	14.7499E-01	14.2005E-01	14.0072E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1970E-01	10.1810E-01	10.1714E-01	10.1938E-01	10.1899E-01	10.1846E-01
4	10.7235E-01	10.6531E-01	10.6151E-01	10.7739E-01	10.7306E-01	10.7047E-01
6	11.5259E-01	11.3769E-01	11.3089E-01	11.7065E-01	11.6015E-01	11.5547E-01
8	12.5862E-01	12.3488E-01	12.2564E-01	12.9831E-01	12.8109E-01	12.7505E-01
10	13.9030E-01	13.5761E-01	13.4677E-01	14.1608E-01	14.3807E-01	14.3151E-01
12	15.4840E-01	15.0727E-01	14.9564E-01	16.6345E-01	16.3429E-01	16.2784E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1906E-01	10.2018E-01	10.2027E-01	10.1934E-01	10.2417E-01	10.2558E-01
4	10.8902E-01	10.8371E-01	10.8229E-01	11.1001E-01	11.1458E-01	11.1503E-01
6	11.9657E-01	11.9038E-01	11.8748E-01	12.7510E-01	12.7602E-01	12.7539E-01
8	13.2416E-01	13.2474E-01	13.3908E-01	15.1981E-01	15.1692E-01	15.1386E-01
10	15.6175E-01	15.4821E-01	15.4148E-01	18.5619E-01	18.5035E-01	18.4932E-01
12	18.2357E-01	18.0288E-01	18.0051E-01	23.0237E-01	22.9457E-01	22.9379E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	16.4357E+04	28.6185E+04	37.9485E+04	16.3470E+04	28.3102E+04	37.3250E+04
4	14.0823E+04	22.3258E+04	27.6092E+04	13.9226E+04	21.8135E+04	26.6457E+04
6	12.1829E+04	18.0482E+04	21.3549E+04	11.9631E+04	17.3953E+04	20.7075E+04
8	10.6245E+04	14.9612E+04	17.1822E+04	10.3555E+04	14.2134E+04	15.9450E+04
10	93.2999E+03	12.6367E+04	14.7081E+04	90.1436E+03	11.8270E+04	12.9375E+04
12	82.4344E+03	10.8292E+04	11.9857E+04	78.9075E+03	99.8110E+03	10.7154E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	16.2202E+04	27.8085E+04	35.2833E+04	16.3602E+04	27.1673E+04	34.9804E+04
4	13.6627E+04	20.9591E+04	25.1073E+04	13.3259E+04	19.9141E+04	23.3379E+04
6	11.5983E+04	16.3462E+04	18.5127E+04	11.1071E+04	15.1250E+04	16.7075E+04
8	98.8568E+03	13.0654E+04	14.2512E+04	92.9767E+03	11.7890E+04	12.5578E+04
10	84.7478E+03	10.4433E+04	11.3133E+04	78.1314E+03	93.9544E+03	97.6938E+03
12	72.5635E+03	87.9925E+03	91.8721E+03	65.8815E+03	76.0250E+03	77.9046E+03

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	15.8716E+04	26.4284E+04	38.5282E+04	15.4243E+04	24.7809E+04	30.4661E+04
4	12.9134E+04	18.7785E+04	21.3307E+04	12.0284E+04	16.4729E+04	18.1616E+04
6	10.5956E+04	13.3647E+04	14.9846E+04	93.5667E+03	11.5027E+04	12.0209E+04
8	86.4445E+03	10.5535E+04	11.0192E+04	72.8644E+03	83.3582E+03	84.9838E+03
10	70.9977E+03	82.1470E+03	84.1373E+03	56.8515E+03	62.0337E+03	62.5536E+03
12	58.4728E+03	65.0556E+03	65.9217E+03	44.4459E+03	47.0259E+03	47.1944E+03

COBALT 60 SOURCE

RECTANGULAR GLASS SOURCE = 20 IN. X 30 IN. AIR GAP = 5.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1621E-01	10.1458E-01	10.1347E-01	10.1619E-01	10.1471E-01	10.1374E-01
4	10.3768E-01	10.3006E-01	10.4553E-01	10.3932E-01	10.5170E-01	10.4785E-01
6	11.1844E-01	11.0126E-01	10.9202E-01	11.2147E-01	11.0676E-01	10.9923E-01
8	11.9947E-01	11.8609E-01	11.5156E-01	12.0321E-01	11.7855E-01	11.6734E-01
10	12.8703E-01	12.4353E-01	12.2352E-01	13.0242E-01	12.6677E-01	12.5228E-01
12	13.9202E-01	13.3300E-01	13.0754E-01	14.1863E-01	13.7156E-01	13.5438E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1532E-01	10.1670E-01	10.1415E-01	10.1411E-01	10.1480E-01	10.1485E-01
4	10.5918E-01	10.5504E-01	10.5242E-01	10.6135E-01	10.6054E-01	10.5932E-01
6	11.2850E-01	11.1835E-01	11.1318E-01	11.4127E-01	11.3637E-01	11.3344E-01
8	12.2181E-01	12.0420E-01	11.9690E-01	12.5334E-01	12.4317E-01	12.3893E-01
10	13.3984E-01	13.1353E-01	13.0456E-01	13.9856E-01	13.8294E-01	13.7802E-01
12	14.8017E-01	14.4724E-01	14.3741E-01	15.7911E-01	15.5846E-01	15.5363E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1277E-01	10.1517E-01	10.1595E-01	10.1057E-01	10.1716E-01	10.1952E-01
4	10.6761E-01	10.6647E-01	10.6262E-01	10.8237E-01	10.9257E-01	10.9482E-01
6	11.6607E-01	11.4115E-01	11.5535E-01	12.2381E-01	12.3261E-01	12.3368E-01
8	12.7931E-01	12.9565E-01	12.9364E-01	14.3966E-01	14.4534E-01	14.4553E-01
10	14.6359E-01	14.1800E-01	14.2384E-01	17.4013E-01	17.4263E-01	17.4242E-01
12	17.5807E-01	17.3765E-01	17.0533E-01	21.4094E-01	21.4601E-01	21.4049E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR.) PER CURIE/SQ. CM. 1 FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	14.1035E+04	24.7432E+04	32.9996E+04	14.0532E+04	24.5322E+04	32.5442E+04
4	12.2002E+04	19.5361E+04	24.3245E+04	12.0959E+04	19.1450E+04	23.5403E+04
6	10.6398E+04	15.9341E+04	18.9815E+04	10.4831E+04	15.4045E+04	18.0039E+04
8	93.6385E+03	15.3032E+04	15.3755E+04	91.3882E+03	12.6748E+04	14.2943E+04
10	82.5638E+03	11.5038E+04	12.7839E+04	80.0789E+03	10.6073E+04	11.6553E+04
12	73.5587E+03	97.3765E+03	10.8348E+04	70.4905E+03	89.9577E+03	96.9359E+03

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	13.3729E+04	24.1694E+04	31.7333E+04	13.8660E+04	23.6835E+04	30.6930E+04
4	11.9100E+04	18.4594E+04	22.2492E+04	11.6593E+04	17.6040E+04	20.7467E+04
6	10.1565E+04	14.5249E+04	16.5366E+04	98.1745E+03	15.4921E+04	14.9656E+04
8	87.6518E+03	11.6903E+04	12.8029E+04	82.8532E+03	10.5966E+04	11.3097E+04
10	75.6392E+03	95.7563E+03	10.2093E+04	70.0957E+03	84.8304E+03	88.3737E+03
12	65.4948E+03	79.5347E+03	83.2284E+03	59.4467E+03	69.9532E+03	70.7458E+03

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	13.7357E+04	23.1114E+04	29.5151E+04	13.4162E+04	21.8673E+04	26.9894E+04
4	11.3504E+04	18.6628E+04	19.2008E+04	10.6721E+04	14.7263E+04	16.2976E+04
6	93.7570E+03	12.4203E+04	13.6422E+04	83.9106E+03	10.3820E+04	10.8697E+04
8	77.4321E+03	99.1427E+03	99.5960E+03	65.9501E+03	75.7650E+03	77.3082E+03
10	64.0361E+03	74.4556E+03	76.3447E+03	51.8216E+03	56.6985E+03	57.1946E+03
12	53.0431E+03	59.2323E+03	60.0498E+03	40.7424E+03	43.1826E+03	43.3442E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 20 IN. X 30 IN. AIR GAP = 6.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1408E-01	10.1281E-01	10.1190E-01	10.1358E-01	10.1261E-01	10.1189E-01
4	10.3081E-01	10.4449E-01	10.4057E-01	10.5023E-01	10.4521E-01	10.4209E-01
6	11.0929E-01	10.9047E-01	10.8224E-01	11.0612E-01	10.9470E-01	10.8788E-01
8	11.7469E-01	11.4882E-01	11.3567E-01	11.7910E-01	11.5860E-01	11.4883E-01
10	12.5739E-01	12.1856E-01	12.0027E-01	12.6315E-01	12.3789E-01	12.2305E-01
12	13.5226E-01	12.9916E-01	12.7570E-01	13.7301E-01	13.5222E-01	13.1684E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1231E-01	10.1221E-01	10.1196E-01	10.1057E-01	10.1109E-01	10.1226E-01
4	10.4790E-01	10.4729E-01	10.4583E-01	10.4971E-01	10.5121E-01	10.5098E-01
6	11.1009E-01	11.0335E-01	10.9944E-01	11.1897E-01	11.1811E-01	11.1634E-01
8	11.9294E-01	11.8017E-01	11.7424E-01	12.1829E-01	12.1548E-01	12.1068E-01
10	12.9704E-01	12.7832E-01	12.7089E-01	13.4851E-01	13.3916E-01	13.3599E-01
12	14.2513E-01	13.9884E-01	13.9052E-01	15.1146E-01	14.9766E-01	14.9382E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0862E-01	10.1167E-01	10.1288E-01	10.0488E-01	10.1235E-01	10.1529E-01
4	10.5160E-01	10.5724E-01	10.5851E-01	10.6250E-01	10.7650E-01	10.8006E-01
6	11.3392E-01	11.3887E-01	11.3916E-01	11.8514E-01	11.9978E-01	12.0219E-01
8	12.5671E-01	12.5898E-01	12.5831E-01	13.7767E-01	13.8998E-01	13.9119E-01
10	14.2241E-01	14.2131E-01	14.2008E-01	15.4893E-01	15.5804E-01	15.5835E-01
12	16.3521E-01	16.3081E-01	16.2937E-01	20.1279E-01	20.1804E-01	20.1895E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/50 CM<sup>2</sup>) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	12.2112E+04	21.5650E+04	28.9106E+04	12.1829E+04	21.4222E+04	28.5681E+04
4	10.8500E+04	17.2314E+04	21.5662E+04	10.5804E+04	16.9039E+04	20.9142E+04
6	93.5379E+03	14.2514E+04	18.9675E+04	92.3932E+03	13.7129E+04	16.1212E+04
8	82.6618E+03	11.8927E+04	13.8302E+04	81.0768E+03	11.3595E+04	12.9733E+04
10	73.4557E+03	10.1816E+04	11.9578E+04	71.4594E+03	95.5430E+03	10.5447E+04
12	65.6037E+03	87.9630E+03	94.3859E+03	63.2344E+03	81.4003E+03	88.1390E+03

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	12.1304E+04	21.1493E+04	27.9202E+04	18.0546E+04	20.7667E+04	27.0723E+04
4	10.4432E+04	14.7418E+04	19.8128E+04	10.3145E+04	15.6286E+04	18.9187E+04
6	90.1486E+03	12.9648E+04	14.8344E+04	87.1031E+03	12.8774E+04	13.4517E+04
8	78.0430E+03	10.5005E+04	11.5454E+04	74.0609E+03	95.4428E+03	10.2165E+04
10	67.7358E+03	84.4539E+03	92.4548E+03	63.0559E+03	76.7945E+03	80.1589E+03
12	58.9852E+03	72.1233E+03	75.6432E+03	53.7703E+03	62.6918E+03	64.4030E+03

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	11.9631E+04	20.3127E+04	26.8985E+04	11.7272E+04	19.2502E+04	23.9820E+04
4	10.8163E+04	14.8358E+04	17.1794E+04	94.5234E+03	13.1874E+04	14.6498E+04
6	83.4952E+03	11.1513E+04	12.1262E+04	73.1098E+03	93.7834E+03	98.3752E+03
8	69.5891E+03	89.9557E+03	90.1045E+03	59.7062E+03	68.8822E+03	70.3538E+03
10	57.8584E+03	67.6071E+03	69.4054E+03	47.2384E+03	51.8302E+03	52.3039E+03
12	48.1932E+03	54.0179E+03	54.8091E+03	37.1479E+03	39.4569E+03	39.8115E+03

RECTANGULAR SLAB SOURCE = 20 IN. X 30 IN. AIR GAP = 7.0 IN.  $\mu = 0.00$   $v = 0$ 

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1293E-01	10.1140E-01	10.1064E-01	10.1167E-01	10.1100E-01	10.1046E-01
4	10.9534E-01	10.9397E-01	10.9365E-01	10.9393E-01	10.9404E-01	10.9746E-01
6	10.9492E-01	10.9159E-01	10.7419E-01	10.9383E-01	10.8414E-01	10.7866E-01
8	11.5748E-01	11.3449E-01	11.2249E-01	11.5957E-01	11.4222E-01	11.3366E-01
10	12.3265E-01	11.9773E-01	11.8089E-01	12.4015E-01	12.1397E-01	12.0294E-01
12	13.1896E-01	12.7077E-01	12.4906E-01	13.3505E-01	12.9946E-01	12.8563E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1012E-01	10.1033E-01	10.1029E-01	10.0807E-01	10.0965E-01	10.1030E-01
4	10.4209E-01	10.4320E-01	10.4008E-01	10.4089E-01	10.4398E-01	10.4447E-01
6	10.9582E-01	10.9133E-01	10.8841E-01	11.0145E-01	11.0360E-01	11.0310E-01
8	11.6944E-01	11.6054E-01	11.5582E-01	11.9011E-01	11.8951E-01	11.8790E-01
10	12.6422E-01	12.4938E-01	12.4326E-01	13.0768E-01	13.0343E-01	13.0100E-01
12	13.7960E-01	13.5880E-01	13.5178E-01	14.5574E-01	14.4760E-01	14.4479E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0573E-01	10.0911E-01	10.1059E-01	10.0099E-01	10.0887E-01	10.1218E-01
4	10.4107E-01	10.4481E-01	10.5070E-01	10.4764E-01	10.6626E-01	10.6885E-01
6	11.1283E-01	11.2128E-01	11.2269E-01	11.5502E-01	11.7471E-01	11.7762E-01
8	12.2259E-01	12.2954E-01	12.2999E-01	13.2827E-01	13.4588E-01	13.4796E-01
10	13.7261E-01	13.7688E-01	13.7600E-01	15.7527E-01	15.8983E-01	15.9088E-01
12	15.6657E-01	15.6783E-01	15.6716E-01	19.0836E-01	19.1958E-01	19.2095E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.6551E+04	16.9279E+04	25.4956E+04	10.6398E+04	18.8270E+04	25.2317E+04
4	93.5968E+03	15.2534E+04	19.2294E+04	93.1244E+03	15.0078E+04	16.6780E+04
6	82.7271E+03	12.6364E+04	15.2453E+04	81.8726E+03	12.2669E+04	14.5033E+04
8	73.5260E+03	10.6844E+04	12.4994E+04	72.2766E+03	10.2194E+04	11.6437E+04
10	65.6776E+03	91.7670E+03	10.4957E+04	64.0474E+03	86.4114E+03	95.7834E+03
12	58.9377E+03	79.7980E+03	89.7103E+03	56.9537E+03	73.9374E+03	80.2599E+03

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.6047E+04	18.6126E+04	24.7043E+04	10.5519E+04	18.3107E+04	23.9997E+04
4	92.0866E+03	14.5387E+04	17.7258E+04	90.5856E+03	13.9350E+04	16.5980E+04
6	80.0789E+03	11.6220E+04	13.3632E+04	77.5884E+03	10.8511E+04	12.1345E+04
8	69.7709E+03	94.6827E+03	10.4513E+04	66.4241E+03	86.2454E+03	92.5852E+03
10	60.9173E+03	78.3296E+03	84.0192E+03	56.8892E+03	69.7232E+03	72.9173E+03
12	53.3005E+03	65.6147E+03	68.9723E+03	48.7644E+03	57.1483E+03	58.7633E+03

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.4831E+04	17.9428E+04	23.1820E+04	10.3039E+04	17.0747E+04	21.3843E+04
4	88.708E+03	13.2582E+04	15.4254E+04	84.1271E+03	11.8385E+04	13.2004E+04
6	74.5967E+03	10.0421E+04	10.9353E+04	67.7079E+03	84.8586E+03	89.1846E+03
8	62.5514E+03	77.8524E+03	81.7743E+03	54.1142E+03	62.7111E+03	64.1019E+03
10	52.3917E+03	61.5239E+03	63.2355E+03	43.0953E+03	47.4215E+03	47.8740E+03
12	43.8717E+03	49.3594E+03	50.1168E+03	34.2574E+03	36.4441E+03	36.5929E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 20 IN. X 60 IN.

AIR GAP = 0.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	99.4949E-02	10.0448E-01	10.0667E-01	10.1435E-01	10.1776E-01	10.1680E-01
4	10.4960E-01	10.4915E-01	10.4556E-01	10.8854E-01	10.7615E-01	10.6888E-01
6	11.3468E-01	11.1620E-01	11.0511E-01	11.9005E-01	11.5876E-01	11.4458E-01
8	12.3771E-01	11.9907E-01	11.8045E-01	13.1111E-01	12.6078E-01	12.4076E-01
10	13.5505E-01	12.9546E-01	12.6967E-01	14.5005E-01	13.8134E-01	13.5675E-01
12	14.8524E-01	14.0439E-01	13.7186E-01	16.0664E-01	15.2058E-01	14.9264E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3441E-01	10.3087E-01	10.2793E-01	10.5508E-01	10.4554E-01	10.4348E-01
4	11.3029E-01	11.0796E-01	10.9788E-01	11.7654E-01	11.4556E-01	11.3341E-01
6	12.5619E-01	12.1491E-01	11.9915E-01	13.3486E-01	12.8596E-01	12.6929E-01
8	14.0783E-01	13.4952E-01	13.3012E-01	15.2950E-01	14.6580E-01	14.4815E-01
10	15.8575E-01	15.1257E-01	14.9139E-01	17.6398E-01	16.8978E-01	16.7255E-01
12	17.9159E-01	17.0579E-01	16.8427E-01	20.4298E-01	19.6058E-01	19.4507E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.7677E-01	10.6163E-01	10.5466E-01	11.2401E-01	10.9860E-01	10.8839E-01
4	12.2813E-01	11.8953E-01	11.7589E-01	13.4927E-01	12.9809E-01	12.8300E-01
6	14.2730E-01	13.7160E-01	13.5544E-01	16.5811E-01	15.9378E-01	15.7997E-01
8	16.7825E-01	16.1126E-01	15.9594E-01	20.6815E-01	19.9949E-01	19.8907E-01
10	19.8886E-01	19.1510E-01	19.0190E-01	26.0344E-01	25.3577E-01	25.2848E-01
12	23.6880E-01	22.9176E-01	22.8112E-01	32.9430E-01	32.3058E-01	32.2405E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CH.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	35.0005E+04	59.9651E+04	78.6846E+04	33.3700E+04	56.4573E+04	73.4188E+04
4	29.3880E+04	45.8454E+04	56.3810E+04	27.5011E+04	42.2547E+04	51.2477E+04
6	24.9647E+04	36.6428E+04	43.3916E+04	23.0873E+04	33.1883E+04	38.4870E+04
8	21.4948E+04	30.1847E+04	34.7478E+04	19.6756E+04	26.8866E+04	30.2018E+04
10	18.7195E+04	25.4083E+04	28.6762E+04	16.9613E+04	22.2400E+04	24.4166E+04
12	16.4574E+04	21.7386E+04	24.1636E+04	14.7536E+04	18.7306E+04	20.1728E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	31.7975E+04	52.8756E+04	67.8162E+04	30.2974E+04	49.4117E+04	62.3814E+04
4	25.5870E+04	38.3466E+04	45.5344E+04	23.7358E+04	34.5493E+04	40.1296E+04
6	21.0780E+04	29.3188E+04	33.1194E+04	19.1143E+04	25.6435E+04	28.2962E+04
8	17.6451E+04	23.1690E+04	25.2802E+04	15.6557E+04	19.7248E+04	20.9895E+04
10	14.9406E+04	18.7374E+04	19.9502E+04	12.9697E+04	15.5624E+04	16.1071E+04
12	12.7597E+04	15.4170E+04	16.1297E+04	10.8335E+04	12.5120E+04	12.8958E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	28.8748E+04	46.1451E+04	57.3123E+04	26.2621E+04	40.2903E+04	48.4448E+04
4	21.9837E+04	31.0903E+04	35.0111E+04	18.6411E+04	25.1659E+04	27.5324E+04
6	17.2703E+04	22.5996E+04	24.0837E+04	14.0282E+04	17.0402E+04	17.7711E+04
8	13.8006E+04	16.7415E+04	17.4743E+04	10.6471E+04	12.1188E+04	12.9421E+04
10	11.1672E+04	12.8974E+04	13.2108E+04	81.7446E+03	89.0536E+03	89.8142E+03
12	91.0363E+03	10.1317E+04	10.2734E+04	63.2427E+03	66.9150E+03	67.1648E+03

RECTANGULAR SLAB SOURCE = 20 IN. X 60 IN. AIR GAP = 1.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2364E-01	10.2060E-01	10.1058E-01	10.3518E-01	10.2864E-01	10.2905E-01
4	10.0927E-01	10.6043E-01	10.6044E-01	11.0904E-01	10.8733E-01	10.7728E-01
6	11.6448E-01	11.3226E-01	11.1044E-01	12.0462E-01	11.6588E-01	11.6958E-01
8	12.6128E-01	12.1101E-01	11.9513E-01	13.1797E-01	12.8207E-01	12.4088E-01
10	13.7116E-01	13.0260E-01	12.7492E-01	14.6802E-01	13.7546E-01	13.5008E-01
12	14.9500E-01	14.0400E-01	13.7935E-01	15.9456E-01	15.0622E-01	14.7702E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.4686E-01	10.3725E-01	10.3251E-01	10.5923E-01	10.4692E-01	10.4020E-01
4	11.3792E-01	11.1101E-01	10.9977E-01	11.7138E-01	11.6016E-01	11.5283E-01
6	12.5527E-01	12.1140E-01	11.9521E-01	13.1805E-01	12.7059E-01	12.5998E-01
8	13.9687E-01	13.3779E-01	13.1836E-01	14.9949E-01	14.3902E-01	14.2228E-01
10	15.6331E-01	14.9084E-01	14.6994E-01	17.1873E-01	16.4839E-01	16.3218E-01
12	17.5593E-01	16.7218E-01	16.5111E-01	19.7985E-01	19.0268E-01	18.0700E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.7270E-01	10.5740E-01	10.5131E-01	11.0370E-01	10.8420E-01	10.7614E-01
4	12.1014E-01	11.7515E-01	11.6270E-01	13.0539E-01	12.6380E-01	12.5131E-01
6	13.9394E-01	13.4370E-01	13.2913E-01	15.8860E-01	15.3514E-01	15.2340E-01
8	16.2752E-01	15.6691E-01	15.5288E-01	19.6876E-01	19.1057E-01	19.0196E-01
10	19.1767E-01	18.5072E-01	18.3859E-01	24.6693E-01	24.0880E-01	24.0269E-01
12	22.7297E-01	22.0290E-01	21.9311E-01	31.1066E-01	30.5540E-01	30.5141E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	29.0360E+04	51.5194E+04	68.0836E+04	28.9270E+04	49.3311E+04	64.5603E+04
4	25.2415E+04	39.9115E+04	49.5070E+04	24.0603E+04	37.7897E+04	45.5651E+04
6	21.6834E+04	32.2720E+04	38.4681E+04	20.4041E+04	29.6633E+04	36.6116E+04
8	18.8577E+04	26.8336E+04	31.1089E+04	17.5389E+04	24.2191E+04	27.3458E+04
10	16.5642E+04	22.7603E+04	25.8476E+04	15.2291E+04	20.1774E+04	22.2261E+04
12	14.6700E+04	19.5980E+04	21.9336E+04	13.3294E+04	17.0670E+04	18.4446E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	27.9007E+04	46.9012E+04	60.4965E+04	27.0204E+04	44.4119E+04	56.3498E+04
4	22.7549E+04	36.4267E+04	41.1052E+04	21.4128E+04	31.4286E+04	36.6370E+04
6	18.9205E+04	26.5521E+04	30.1234E+04	17.3911E+04	23.4900E+04	25.9433E+04
8	15.9577E+04	21.1197E+04	23.1234E+04	14.3363E+04	18.1666E+04	19.3733E+04
10	13.5933E+04	17.1600E+04	18.3263E+04	11.9383E+04	14.3936E+04	15.0024E+04
12	11.6718E+04	14.1861E+04	14.8699E+04	10.0157E+04	11.6129E+04	11.9256E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	28.0627E+04	41.9589E+04	52.3402E+04	24.1930E+04	37.3206E+04	45.0678E+04
4	20.0843E+04	28.3768E+04	32.5600E+04	17.5678E+04	23.5330E+04	25.0887E+04
6	15.8978E+04	20.6899E+04	22.3275E+04	13.1606E+04	18.0265E+04	18.7277E+04
8	12.7409E+04	15.5583E+04	16.2605E+04	10.9265E+04	11.4331E+04	11.5890E+04
10	10.3804E+04	12.0216E+04	12.3291E+04	7.71903E+03	84.2026E+03	84.9389E+03
12	84.0249E+03	94.7523E+03	96.1212E+03	59.8514E+03	63.7861E+03	63.6306E+03

RECTANGULAR SLAB SOURCE = 20 IN. X 60 IN.

AIR GAP = 2.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES.

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2199E-01	10.1880E-01	10.1676E-01	10.2845E-01	10.2347E-01	10.2070E-01
4	10.7346E-01	10.6017E-01	10.5312E-01	10.8961E-01	10.7274E-01	10.6473E-01
6	11.4341E-01	11.1432E-01	11.0330E-01	11.7084E-01	11.3909E-01	11.2655E-01
8	12.2742E-01	11.8459E-01	11.6546E-01	12.6866E-01	12.2302E-01	12.0504E-01
10	13.2337E-01	12.6376E-01	12.3869E-01	13.8190E-01	13.2165E-01	12.9997E-01
12	14.3069E-01	13.5314E-01	13.2239E-01	15.0988E-01	14.3585E-01	14.1142E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3463E-01	10.2833E-01	10.2532E-01	10.4123E-01	10.3439E-01	10.3089E-01
4	11.0817E-01	10.8926E-01	10.8090E-01	11.3067E-01	11.1025E-01	11.0197E-01
6	12.0715E-01	11.7453E-01	11.6185E-01	12.5419E-01	12.2078E-01	12.0917E-01
8	13.2908E-01	12.6346E-01	12.6786E-01	14.1361E-01	13.6605E-01	13.5310E-01
10	14.7387E-01	14.1857E-01	13.9947E-01	16.0174E-01	15.4834E-01	15.3552E-01
12	15.4247E-01	15.7508E-01	15.5762E-01	18.3072E-01	17.7076E-01	17.5899E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.4866E-01	10.4126E-01	10.3756E-01	10.6693E-01	10.5856E-01	10.5450E-01
4	11.5788E-01	11.3841E-01	11.2817E-01	12.2792E-01	12.0446E-01	11.9676E-01
6	13.1295E-01	12.7917E-01	12.6876E-01	14.6886E-01	14.3484E-01	14.2696E-01
8	15.1481E-01	14.7189E-01	14.6139E-01	17.9852E-01	17.5948E-01	17.5312E-01
10	17.6832E-01	17.1920E-01	17.0993E-01	22.3476E-01	21.9424E-01	21.8973E-01
12	20.8943E-01	20.2781E-01	20.2018E-01	28.0070E-01	27.6116E-01	27.5818E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CH.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	25.5015E+04	44.4068E+04	59.2360E+04	24.9647E+04	43.0445E+04	56.7596E+04
4	21.8586E+04	35.9081E+04	43.7792E+04	21.0837E+04	33.1596E+04	40.7912E+04
6	18.9852E+04	28.8244E+04	34.3779E+04	18.0818E+04	26.5890E+04	31.2172E+04
8	16.6625E+04	24.0053E+04	28.0178E+04	15.8798E+04	21.8794E+04	24.8327E+04
10	14.7492E+04	20.3027E+04	23.4232E+04	13.7132E+04	18.3413E+04	20.2892E+04
12	13.1495E+04	17.7564E+04	19.9512E+04	12.0759E+04	15.5930E+04	16.9099E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	24.3718E+04	41.3321E+04	53.7078E+04	23.7413E+04	39.4956E+04	50.4669E+04
4	20.1655E+04	30.8490E+04	37.0607E+04	19.1741E+04	28.4234E+04	33.3056E+04
6	16.9613E+04	24.0359E+04	27.4009E+04	15.7542E+04	21.4519E+04	23.7782E+04
8	14.4274E+04	19.2561E+04	21.1591E+04	13.0910E+04	16.7002E+04	17.8518E+04
10	12.3747E+04	15.7397E+04	18.8463E+04	10.9713E+04	13.2875E+04	13.8917E+04
12	10.6836E+04	13.0644E+04	13.7208E+04	9.25137E+03	10.7718E+04	11.0731E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	23.0873E+04	37.6242E+04	47.2439E+04	21.7486E+04	33.9739E+04	41.2261E+04
4	18.1952E+04	26.9613E+04	29.8146E+04	16.1421E+04	21.7853E+04	23.9327E+04
6	14.5368E+04	19.8393E+04	20.4019E+04	12.2253E+04	14.9480E+04	15.6207E+04
8	11.7748E+04	14.4071E+04	15.0800E+04	9.37625E+03	10.7190E+04	10.9368E+04
10	96.1971E+03	11.1824E+04	11.4783E+04	72.5214E+03	79.2479E+03	79.9608E+03
12	79.0617E+03	86.4582E+03	84.7810E+03	56.4320E+03	59.8343E+03	60.0716E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 20 IN. X 60 IN.

AIR GAP = 3.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1830E-01	10.1579E-01	10.1418E-01	10.7183E-01	10.1855E-01	10.1661E-01
4	10.6140E-01	10.5117E-01	10.4535E-01	10.7584E-01	10.3964E-01	10.5348E-01
6	11.2194E-01	10.9970E-01	10.8847E-01	11.4065E-01	11.1695E-01	11.0424E-01
8	11.9446E-01	11.5910E-01	11.4262E-01	12.2496E-01	11.8879E-01	11.7398E-01
10	12.7887E-01	12.2827E-01	12.0642E-01	13.2344E-01	12.7468E-01	12.5631E-01
12	13.7232E-01	13.0657E-01	12.7954E-01	14.3594E-01	13.7460E-01	13.5386E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2486E-01	10.2148E-01	10.1951E-01	10.2803E-01	10.2498E-01	10.2313E-01
4	10.8359E-01	10.7125E-01	10.6535E-01	10.9855E-01	10.8678E-01	10.8126E-01
6	11.6668E-01	11.4355E-01	11.3399E-01	12.0206E-01	11.8017E-01	11.7105E-01
8	12.7144E-01	12.3748E-01	12.2529E-01	13.3672E-01	13.0556E-01	12.9598E-01
10	13.9743E-01	13.5342E-01	13.3972E-01	15.0351E-01	14.6480E-01	14.5478E-01
12	15.4519E-01	14.9229E-01	14.7807E-01	17.3477E-01	16.5986E-01	16.5069E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3376E-01	10.2927E-01	10.2780E-01	10.4190E-01	10.4072E-01	10.3943E-01
4	11.1760E-01	11.0438E-01	11.0145E-01	11.6961E-01	11.5943E-01	11.5541E-01
6	12.4795E-01	12.2733E-01	12.2042E-01	13.7401E-01	13.5545E-01	13.5087E-01
8	14.2238E-01	13.9398E-01	13.8459E-01	16.6112E-01	16.3798E-01	16.3342E-01
10	16.4433E-01	16.1024E-01	16.0342E-01	20.4484E-01	20.1886E-01	20.1577E-01
12	19.1942E-01	18.8167E-01	18.7592E-01	25.4302E-01	25.1861E-01	25.1651E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	22.0184E+04	38.7700E+04	51.9794E+04	21.6854E+04	37.7775E+04	50.1675E+04
4	19.1007E+04	30.9480E+04	38.9928E+04	18.5718E+04	29.5457E+04	36.5989E+04
6	16.7516E+04	25.5992E+04	30.9137E+04	16.0941E+04	23.9288E+04	28.2641E+04
8	14.8211E+04	21.6002E+04	25.3723E+04	14.0712E+04	19.8364E+04	22.8272E+04
10	13.2093E+04	18.5641E+04	21.3302E+04	12.3901E+04	16.7253E+04	18.5790E+04
12	11.8471E+04	16.1626E+04	18.2532E+04	10.9738E+04	14.2877E+04	15.5474E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	21.2943E+04	34.3235E+04	47.8034E+04	20.8643E+04	35.1247E+04	45.2087E+04
4	17.9037E+04	27.6966E+04	33.4832E+04	17.1568E+04	25.7035E+04	30.2787E+04
6	15.2291E+04	21.7999E+04	24.9482E+04	14.2624E+04	19.5880E+04	21.7932E+04
8	13.0431E+04	17.5851E+04	19.3988E+04	11.9535E+04	15.3524E+04	16.4522E+04
10	11.2799E+04	14.4522E+04	15.5102E+04	10.0620E+04	12.2872E+04	12.8480E+04
12	97.9284E+03	12.0491E+04	12.6795E+04	85.4678E+03	99.9486E+03	10.2853E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	20.4041E+04	33.6644E+04	42.5685E+04	19.4260E+04	30.7254E+04	37.5192E+04
4	16.3629E+04	23.7174E+04	27.2581E+04	14.7383E+04	20.0474E+04	22.0905E+04
6	13.2603E+04	17.4939E+04	18.9822E+04	11.2994E+04	13.8839E+04	14.5292E+04
8	10.8325E+04	13.3240E+04	13.9691E+04	87.3457E+03	10.0176E+04	10.2269E+04
10	89.0401E+03	10.3923E+04	10.6775E+04	67.9381E+03	74.3903E+03	75.0056E+03
12	73.5459E+03	82.5329E+03	83.8115E+03	53.3933E+03	56.3632E+03	56.5987E+03



RECTANGULAR SLAB SOURCE = 20 IN. X 60 IN.

AIR GAP = 4.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1522E-01	10.1332E-01	10.1205E-01	10.1705E-01	10.1492E-01	10.1356E-01
4	10.5237E-01	10.4389E-01	10.3907E-01	10.5848E-01	10.4964E-01	10.4430E-01
6	11.0462E-01	10.8630E-01	10.7691E-01	11.1729E-01	10.9910E-01	10.9047E-01
8	11.6871E-01	11.3853E-01	11.2926E-01	11.9598E-01	11.6193E-01	11.4958E-01
10	12.4280E-01	11.9959E-01	11.8043E-01	12.7702E-01	12.3737E-01	12.2207E-01
12	13.2581E-01	12.6889E-01	12.4497E-01	13.7602E-01	13.2566E-01	13.0785E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1823E-01	10.1654E-01	10.1539E-01	10.1473E-01	10.1855E-01	10.1776E-01
4	10.6562E-01	10.5790E-01	10.5381E-01	10.7537E-01	10.6940E-01	10.6612E-01
6	11.3599E-01	11.1988E-01	11.1275E-01	11.6274E-01	11.4941E-01	11.4302E-01
8	12.2665E-01	12.0172E-01	11.9224E-01	12.7959E-01	12.5876E-01	12.5100E-01
10	13.3721E-01	13.0369E-01	12.9276E-01	14.2639E-01	13.9892E-01	13.9156E-01
12	14.6783E-01	14.2657E-01	14.1499E-01	16.0494E-01	15.7210E-01	15.6490E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2075E-01	10.2117E-01	10.2082E-01	10.2563E-01	10.2877E-01	10.2929E-01
4	10.8864E-01	10.8455E-01	10.8205E-01	11.2759E-01	11.2677E-01	11.2548E-01
6	11.9901E-01	11.8825E-01	11.8399E-01	13.0274E-01	12.9599E-01	12.9359E-01
8	13.5103E-01	13.3390E-01	13.2893E-01	15.5521E-01	15.4365E-01	15.4125E-01
10	15.4718E-01	15.2494E-01	15.2012E-01	18.9641E-01	18.8183E-01	18.7993E-01
12	17.9206E-01	17.6621E-01	17.6201E-01	23.4343E-01	23.2749E-01	23.2610E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	19.2033E+04	34.0883E+04	45.9818E+04	18.9852E+04	33.3793E+04	44.6137E+04
4	16.8306E+04	27.5545E+04	34.9563E+04	16.4574E+04	26.4613E+04	32.9940E+04
6	14.8850E+04	22.9605E+04	27.9543E+04	14.3940E+04	21.6254E+04	25.6933E+04
8	13.2632E+04	19.9385E+04	23.0901E+04	12.6792E+04	18.0498E+04	20.6908E+04
10	11.8935E+04	16.8873E+04	19.5103E+04	11.2344E+04	15.3014E+04	17.0649E+04
12	10.7240E+04	14.7732E+04	16.7670E+04	10.0039E+04	13.1301E+04	14.3360E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	18.7195E+04	32.4327E+04	42.7357E+04	18.4157E+04	31.3433E+04	40.6161E+04
4	15.9809E+04	24.9534E+04	30.3475E+04	15.3826E+04	23.2849E+04	27.5773E+04
6	13.7132E+04	19.8174E+04	22.8103E+04	12.9276E+04	17.9032E+04	20.0010E+04
8	11.8557E+04	16.0954E+04	17.8157E+04	10.9235E+04	14.1284E+04	15.1791E+04
10	10.3031E+04	13.2965E+04	14.3087E+04	92.7272E+03	11.3644E+04	11.9029E+04
12	89.9293E+03	11.1328E+04	11.7386E+04	79.0231E+03	92.8221E+03	95.6218E+03

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	18.0818E+04	30.1750E+04	38.4168E+04	17.3495E+04	27.7699E+04	34.1250E+04
4	14.7538E+04	21.5953E+04	24.9344E+04	13.4276E+04	18.4174E+04	20.3604E+04
6	12.0942E+04	16.0761E+04	17.4940E+04	10.4204E+04	12.8728E+04	13.4917E+04
8	99.6210E+03	12.3279E+04	12.0415E+04	81.2156E+03	93.4470E+03	95.4830E+03
10	82.4079E+03	93.5868E+03	99.3344E+03	63.5507E+03	69.7399E+03	70.4082E+03
12	68.4166E+03	77.0147E+03	78.2509E+03	49.8963E+03	53.0489E+03	53.2728E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 20 IN. X 60 IN.

AIR GAP = 5.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1200E-01	10.1141E-01	10.1046E-01	10.1367E-01	10.1227E-01	10.1138E-01
4	10.8501E-01	10.8301E-01	10.8412E-01	10.4848E-01	10.4202E-01	10.3035E-01
6	10.9052E-01	10.7564E-01	10.6758E-01	10.7927E-01	10.6522E-01	10.7023E-01
8	11.8773E-01	11.2208E-01	11.4957E-01	11.6357E-01	11.4038E-01	11.3038E-01
10	12.1377E-01	11.7631E-01	11.5955E-01	12.4011E-01	12.0768E-01	11.9570E-01
12	12.0803E-01	12.3045E-01	12.1709E-01	13.2830E-01	12.8649E-01	12.7624E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1370E-01	10.1303E-01	10.1242E-01	10.1349E-01	10.1405E-01	10.1395E-01
4	10.5246E-01	10.4722E-01	10.4517E-01	10.5848E-01	10.5659E-01	10.5650E-01
6	11.1244E-01	11.0169E-01	10.9645E-01	11.3285E-01	11.2502E-01	11.2295E-01
8	11.9170E-01	11.7375E-01	11.6644E-01	12.3508E-01	12.2272E-01	12.1703E-01
10	12.8952E-01	12.6433E-01	12.5564E-01	13.6540E-01	13.4703E-01	13.3163E-01
12	14.0602E-01	13.7411E-01	13.6471E-01	15.2525E-01	15.0213E-01	14.9079E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1343E-01	10.1556E-01	10.1607E-01	10.1480E-01	10.2053E-01	10.2225E-01
4	10.6755E-01	10.6844E-01	10.6774E-01	10.9880E-01	11.0267E-01	11.0342E-01
6	11.6179E-01	11.5839E-01	11.5622E-01	12.4828E-01	12.5031E-01	12.4985E-01
8	12.9542E-01	12.8707E-01	12.8406E-01	14.7248E-01	14.7035E-01	14.6937E-01
10	14.7039E-01	14.5757E-01	14.5438E-01	17.7897E-01	17.7261E-01	17.7201E-01
12	16.9042E-01	16.7419E-01	16.7126E-01	21.8265E-01	21.7519E-01	21.7438E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	16.8983E+04	30.2083E+04	40.9687E+04	16.7516E+04	29.6871E+04	39.9097E+04
4	17.9802E+04	24.6894E+04	31.5195E+04	12.6700E+04	23.8182E+04	29.8814E+04
6	13.3100E+04	20.7379E+04	25.8046E+04	12.9355E+04	19.6271E+04	23.4577E+04
8	11.9343E+04	17.7577E+04	21.1066E+04	11.8714E+04	16.4834E+04	18.9853E+04
10	10.7604E+04	15.4270E+04	17.9174E+04	10.2226E+04	14.0433E+04	15.7264E+04
12	97.4922E+03	13.5748E+04	15.4580E+04	91.4818E+03	12.1008E+04	13.2560E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	16.5642E+04	28.9542E+04	38.3872E+04	16.3430E+04	28.0861E+04	36.6263E+04
4	14.2910E+04	22.5664E+04	27.6035E+04	13.8358E+04	21.1511E+04	25.1816E+04
6	12.3901E+04	18.0729E+04	20.9003E+04	11.7431E+04	16.4974E+04	18.3927E+04
8	10.7097E+04	14.7693E+04	16.4068E+04	99.9880E+03	13.0231E+04	14.0273E+04
10	94.3300E+03	12.2604E+04	13.2293E+04	85.4019E+03	10.5255E+04	11.0428E+04
12	82.7541E+03	10.3066E+04	10.4890E+04	73.1530E+03	86.3093E+03	80.0093E+03

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	16.0941E+04	27.1369E+04	34.7883E+04	15.5330E+04	25.1375E+04	31.0789E+04
4	13.3294E+04	19.6973E+04	22.8483E+04	12.2346E+04	16.9218E+04	18.7097E+04
6	11.0429E+04	14.7898E+04	16.1412E+04	96.0451E+03	11.9312E+04	12.5280E+04
8	91.6846E+03	11.4054E+04	11.9998E+04	75.4674E+03	87.1663E+03	89.1131E+03
10	76.3156E+03	89.8292E+03	92.4770E+03	59.4136E+03	65.4513E+03	65.9985E+03
12	63.6790E+03	71.9084E+03	73.1039E+03	46.8718E+03	49.9071E+03	50.1249E+03

COSALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 20 IN. X 60 IN.

AIR GAP = 6.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1109E-01	10.0991E-01	10.0909E-01	10.1120E-01	10.1027E-01	10.0990E-01
4	10.3021E-01	10.3350E-01	10.3016E-01	10.4085E-01	10.3610E-01	10.3923E-01
6	10.7096E-01	10.6705E-01	10.6002E-01	10.8514E-01	10.7422E-01	10.6852E-01
8	11.3073E-01	11.0867E-01	10.9766E-01	11.4199E-01	11.9326E-01	11.1499E-01
10	11.9009E-01	11.5765E-01	11.4252E-01	12.1028E-01	11.8365E-01	11.7260E-01
12	12.5704E-01	12.1340E-01	11.9428E-01	12.8944E-01	12.5451E-01	12.4439E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1950E-01	10.1045E-01	10.1021E-01	10.0944E-01	10.1020E-01	10.1110E-01
4	10.4254E-01	10.4028E-01	10.3853E-01	10.4507E-01	10.4685E-01	10.4695E-01
6	10.9420E-01	10.8742E-01	10.8357E-01	11.0965E-01	11.0753E-01	11.0800E-01
8	11.6394E-01	11.5746E-01	11.4591E-01	11.9775E-01	11.9326E-01	11.9017E-01
10	12.5113E-01	12.3263E-01	12.2579E-01	13.1633E-01	13.0530E-01	13.0195E-01
12	13.5981E-01	13.3154E-01	13.2396E-01	14.6059E-01	14.4540E-01	14.4160E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3840E-01	10.1153E-01	10.1262E-01	10.0735E-01	10.1463E-01	10.1780E-01
4	10.5180E-01	10.5623E-01	10.5683E-01	10.7365E-01	10.8439E-01	10.8076E-01
6	11.3287E-01	11.3510E-01	11.3460E-01	12.0574E-01	12.1663E-01	12.1572E-01
8	12.5124E-01	12.4986E-01	12.4946E-01	14.0533E-01	14.1198E-01	14.1219E-01
10	14.0847E-01	14.0337E-01	14.0156E-01	16.8425E-01	16.8640E-01	16.8620E-01
12	16.0787E-01	15.9957E-01	15.9771E-01	20.5204E-01	20.5159E-01	20.5129E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	14.9860E+04	26.9552E+04	26.7333E+04	14.8450E+04	26.5632E+04	35.8968E+04
4	13.3694E+04	22.2475E+04	28.5672E+04	13.1495E+04	21.9406E+04	27.1792E+04
6	11.9691E+04	18.8216E+04	23.1907E+04	11.6782E+04	17.8832E+04	21.4775E+04
8	10.7919E+04	16.2085E+04	19.3747E+04	10.4193E+04	15.1047E+04	17.4774E+04
10	97.7815E+03	14.1474E+04	16.5143E+04	93.3368E+03	12.9200E+04	16.5336E+04
12	86.9910E+03	12.4804E+04	14.2488E+04	83.9092E+03	11.1028E+04	12.2983E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	14.7492E+04	25.9837E+04	34.6415E+04	14.5840E+04	25.2791E+04	35.1579E+04
4	12.0542E+04	20.4956E+04	25.1981E+04	12.4896E+04	19.2713E+04	23.0595E+04
6	11.2344E+04	16.5320E+04	19.2064E+04	10.6951E+04	15.0668E+04	16.9521E+04
8	98.4821E+03	13.5883E+04	15.1480E+04	91.7109E+03	12.0772E+04	12.9875E+04
10	86.5783E+03	11.3311E+04	12.2590E+04	78.7879E+03	97.6433E+03	10.2615E+04
12	76.3159E+03	95.6119E+03	10.1213E+04	67.6168E+03	80.3672E+03	82.9720E+03

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	14.3940E+04	24.4950E+04	31.5694E+04	13.9553E+04	22.8117E+04	28.0666E+04
4	12.0759E+04	18.0081E+04	20.9230E+04	11.1617E+04	15.5449E+04	17.0226E+04
6	10.1010E+04	13.6291E+04	16.9174E+04	88.5444E+03	11.0642E+04	11.0339E+04
8	94.4699E+03	19.3715E+04	11.1409E+04	70.1343E+03	81.3092E+03	83.1874E+03
10	70.7464E+03	83.6316E+03	86.1838E+03	55.5488E+03	61.2599E+03	61.0772E+03
12	59.3220E+03	67.2004E+03	68.1567E+03	44.6322E+03	46.9749E+03	47.0641E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 20 IN. X 60 IN.

AIR GAP = 7.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0963E-01	10.0871E-01	10.0804E-01	10.0934E-01	10.0874E-01	10.0825E-01
4	10.3465E-01	10.2986E-01	10.2692E-01	10.3488E-01	10.3139E-01	10.2914E-01
6	10.7099E-01	10.5997E-01	10.5383E-01	10.7381E-01	10.6533E-01	10.6067E-01
8	11.1674E-01	10.9760E-01	10.8781E-01	11.2444E-01	11.0960E-01	11.0243E-01
10	11.7044E-01	11.4199E-01	11.2841E-01	11.8578E-01	11.6387E-01	11.5442E-01
12	12.3123E-01	11.9268E-01	11.7530E-01	12.5729E-01	12.2808E-01	12.1673E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0816E-01	10.0851E-01	10.0851E-01	10.0654E-01	10.0837E-01	10.0906E-01
4	10.3491E-01	10.3427E-01	10.3328E-01	10.3621E-01	10.3324E-01	10.3366E-01
6	10.7971E-01	10.7598E-01	10.7342E-01	10.9126E-01	10.9286E-01	10.9224E-01
8	11.4147E-01	11.3335E-01	11.2926E-01	11.7118E-01	11.6577E-01	11.6031E-01
10	12.1968E-01	12.0644E-01	12.0136E-01	12.7624E-01	12.7114E-01	12.6899E-01
12	13.1436E-01	12.9641E-01	12.9395E-01	14.0714E-01	13.9863E-01	13.9596E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0482E-01	10.0853E-01	10.1001E-01	10.0207E-01	10.1027E-01	10.1339E-01
4	10.3376E-01	10.4673E-01	10.4844E-01	10.5583E-01	10.7019E-01	10.7379E-01
6	11.0992E-01	11.1653E-01	11.1748E-01	11.7181E-01	11.8615E-01	11.8854E-01
8	12.1546E-01	12.1972E-01	12.1968E-01	13.5295E-01	13.6463E-01	13.6584E-01
10	13.5776E-01	13.5901E-01	13.5836E-01	16.0648E-01	16.1490E-01	16.1539E-01
12	15.3970E-01	15.3803E-01	15.3711E-01	19.4411E-01	19.4957E-01	19.4970E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CH.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	13.3808E+04	24.1990E+04	33.1204E+04	13.3100E+04	23.6986E+04	32.4483E+04
4	11.9976E+04	20.1484E+04	26.0106E+04	11.8671E+04	19.5656E+04	26.8292E+04
6	10.8182E+04	17.1573E+04	21.2553E+04	10.5885E+04	16.3546E+04	19.7406E+04
8	98.0281E+03	14.8520E+04	17.8420E+04	94.9888E+03	13.8862E+04	16.1386E+04
10	89.2138E+03	13.0194E+04	15.2715E+04	85.4977E+03	11.7397E+04	13.4691E+04
12	81.5074E+03	11.5280E+04	13.2688E+04	77.1856E+03	10.3615E+04	11.4239E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	13.2095E+04	23.4322E+04	31.3984E+04	13.0835E+04	22.8513E+04	30.1334E+04
4	11.6130E+04	18.8862E+04	23.0771E+04	11.3164E+04	17.6132E+04	21.1773E+04
6	10.2226E+04	15.1709E+04	17.7008E+04	97.4788E+03	13.8695E+04	15.6615E+04
8	90.1523E+03	12.5344E+04	14.0211E+04	84.3663E+03	11.1301E+04	12.0690E+04
10	79.6625E+03	10.4962E+04	11.3853E+04	72.8202E+03	90.7400E+03	95.5196E+03
12	70.5319E+03	88.8775E+03	94.2676E+03	62.5688E+03	74.9478E+03	77.4617E+03

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	12.9355E+04	22.1947E+04	28.7615E+04	12.5261E+04	20.7613E+04	25.9571E+04
4	10.8736E+04	18.5061E+04	19.3147E+04	10.2024E+04	14.3403E+04	16.0125E+04
6	92.5920E+03	12.5837E+04	13.0129E+04	81.7321E+03	10.2705E+04	10.8173E+04
8	77.9254E+03	98.1277E+03	10.3793E+04	65.2280E+03	73.8965E+03	77.7085E+03
10	65.6481E+03	77.9297E+03	80.4206E+03	51.6281E+03	57.4257E+03	58.0329E+03
12	55.3221E+03	62.8678E+03	63.9845E+03	41.3788E+03	44.1934E+03	44.3978E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 20 IN. X 90 IN. AIR GAP = 0.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	99.5991E-02	10.0515E-01	10.0694E-01	10.1526E-01	10.1744E-01	10.1666E-01
4	10.4993E-01	10.4780E-01	10.4371E-01	10.0066E-01	10.7345E-01	10.6744E-01
6	11.2924E-01	11.0940E-01	10.9772E-01	11.0695E-01	11.5435E-01	11.3945E-01
8	12.2393E-01	11.0407E-01	11.6461E-01	13.0306E-01	12.5093E-01	12.2979E-01
10	13.3005E-01	12.6966E-01	12.4270E-01	14.3523E-01	13.6394E-01	13.3770E-01
12	14.4700E-01	13.6817E-01	13.3112E-01	15.0302E-01	14.9339E-01	14.6331E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2481E-01	10.3096E-01	10.2791E-01	10.5524E-01	10.4556E-01	10.4044E-01
4	11.3017E-01	11.0724E-01	10.9608E-01	11.7638E-01	11.4508E-01	11.3774E-01
6	12.5430E-01	12.1209E-01	11.9574E-01	13.3371E-01	12.8381E-01	12.6744E-01
8	14.0301E-01	13.4318E-01	13.2280E-01	15.2664E-01	14.6186E-01	14.4933E-01
10	15.7671E-01	15.0117E-01	14.7860E-01	17.5853E-01	16.8217E-01	16.6412E-01
12	17.7676E-01	16.8756E-01	16.6432E-01	20.3378E-01	19.4881E-01	19.3221E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.7683E-01	10.6163E-01	10.5463E-01	11.2601E-01	10.9059E-01	10.6037E-01
4	12.7799E-01	11.8923E-01	11.7548E-01	13.8921E-01	12.9798E-01	12.8286E-01
6	14.2661E-01	13.7055E-01	13.5433E-01	16.5788E-01	15.9343E-01	15.7954E-01
8	16.7658E-01	15.0089E-01	15.9315E-01	20.5760E-01	19.3809E-01	19.0814E-01
10	19.8561E-01	19.1069E-01	18.9695E-01	26.0232E-01	25.3623E-01	25.2700E-01
12	23.6316E-01	22.8441E-01	22.7319E-01	32.9224E-01	32.2790E-01	32.2924E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ. CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	35.0607E+04	60.4571E+04	79.8205E+04	35.4001E+04	56.6940E+04	73.9704E+04
4	29.6440E+04	46.8099E+04	58.1405E+04	27.6233E+04	42.7244E+04	52.1190E+04
6	25.3963E+04	37.8641E+04	45.3399E+04	23.2939E+04	33.7908E+04	39.4788E+04
8	22.0520E+04	31.5470E+04	36.8327E+04	19.9452E+04	27.5595E+04	31.2179E+04
10	19.3686E+04	26.8392E+04	30.7499E+04	17.2764E+04	22.9644E+04	25.0084E+04
12	17.1007E+04	23.1938E+04	26.1782E+04	15.1011E+04	19.4419E+04	21.1170E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	31.8125E+04	52.9843E+04	68.0664E+04	30.3048E+04	49.4604E+04	62.4910E+04
4	25.6435E+04	38.5586E+04	45.9222E+04	23.7614E+04	34.6612E+04	40.2939E+04
6	21.1718E+04	29.5872E+04	33.5468E+04	19.1557E+04	25.7574E+04	29.4135E+04
8	17.7667E+04	22.4844E+04	25.7105E+04	15.7086E+04	19.8477E+04	21.1613E+04
10	15.0821E+04	19.0418E+04	20.3591E+04	13.0305E+04	15.6867E+04	16.3562E+04
12	12.9191E+04	15.7193E+04	16.5094E+04	10.8998E+04	12.6332E+04	12.9814E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	28.8784E+04	46.1667E+04	57.3595E+04	26.2529E+04	40.2945E+04	48.4733E+04
4	21.9983E+04	31.1294E+04	39.3820E+04	18.8431E+04	25.1722E+04	27.5436E+04
6	17.2803E+04	22.4067E+04	24.1546E+04	14.0315E+04	17.0480E+04	17.7821E+04
8	13.8311E+04	16.7913E+04	17.5411E+04	10.6510E+04	12.1267E+04	12.3610E+04
10	11.1928E+04	12.9407E+04	13.2712E+04	8.0782E+03	8.9.1288E+03	8.9.0006E+03
12	9.13113E+03	10.1789E+04	10.3274E+04	6.2089E+03	6.6.9847E+03	6.7.2418E+03

COBALT 60 SOURCE

RECTANGULAR SLAP SOURCE = 20 IN. X 90 IN. AIR GAP = 1.0 IN. H = 0.00 V = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES					
	2	4	6	2	4	6
2	10.2249E-01	10.3953E-01	10.1742E-01	10.3421E-01	10.2771E-01	10.2419E-01
4	10.7786E-01	10.6328E-01	10.5541E-01	11.0518E-01	10.6369E-01	10.7368E-01
6	11.5286E-01	11.2169E-01	11.0692E-01	11.9637E-01	11.5762E-01	11.4136E-01
8	12.3990E-01	11.9149E-01	11.6999E-01	12.8283E-01	12.4772E-01	12.2968E-01
10	13.2879E-01	12.7100E-01	12.4229E-01	14.2623E-01	13.5200E-01	13.2625E-01
12	14.4716E-01	13.5959E-01	13.2436E-01	15.6312E-01	14.7307E-01	14.4314E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES					
	2	4	6	2	4	6
2	10.4611E-01	10.3659E-01	10.3187E-01	10.5893E-01	10.4657E-01	10.4008E-01
4	11.3540E-01	11.0863E-01	10.9733E-01	11.7007E-01	11.3805E-01	11.2674E-01
6	12.5008E-01	12.0622E-01	11.8962E-01	13.1528E-01	12.6754E-01	12.5198E-01
8	13.8795E-01	13.2827E-01	13.0813E-01	14.9653E-01	14.3333E-01	14.1259E-01
10	15.4932E-01	14.7547E-01	14.5347E-01	17.1060E-01	16.3807E-01	16.2179E-01
12	17.3530E-01	16.4914E-01	16.2667E-01	19.6730E-01	18.3774E-01	18.2209E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES					
	2	4	6	2	4	6
2	10.7270E-01	10.5785E-01	10.5124E-01	11.0445E-01	10.8469E-01	10.7694E-01
4	12.0988E-01	11.7473E-01	11.6217E-01	13.0636E-01	12.6468E-01	12.5206E-01
6	13.9306E-01	13.4244E-01	13.2761E-01	15.9027E-01	15.3632E-01	15.2441E-01
8	16.2554E-01	15.6419E-01	15.4973E-01	19.7072E-01	19.1191E-01	19.0272E-01
10	19.1392E-01	18.4576E-01	18.3310E-01	24.6902E-01	24.1011E-01	24.0374E-01
12	22.6654E-01	21.9473E-01	21.8437E-01	31.1260E-01	30.5642E-01	30.5227E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES					
	2	4	6	2	4	6
2	30.1417E+04	22.4303E+04	69.7348E+04	29.1408E+04	49.9027E+04	65.5516E+04
4	25.7256E+04	41.1722E+04	51.3928E+04	24.3615E+04	38.1264E+04	44.8506E+04
6	22.2886E+04	33.6998E+04	40.6857E+04	20.7621E+04	30.4719E+04	39.8322E+04
8	19.5438E+04	28.3381E+04	33.3300E+04	17.9341E+04	25.0527E+04	28.5332E+04
10	17.3045E+04	24.2905E+04	28.0100E+04	15.6489E+04	21.0091E+04	23.3496E+04
12	15.4466E+04	21.1229E+04	23.9777E+04	13.7649E+04	17.8808E+04	19.4926E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES					
	2	4	6	2	4	6
2	28.1282E+04	47.2499E+04	61.0642E+04	27.1213E+04	44.4222E+04	56.6699E+04
4	22.9369E+04	34.8303E+04	41.7224E+04	21.5201E+04	31.6435E+04	36.9476E+04
6	19.1217E+04	26.9711E+04	20.7263E+04	17.9088E+04	23.6990E+04	26.2294E+04
8	16.1704E+04	21.5352E+04	23.6838E+04	14.4465E+04	18.3648E+04	19.6280E+04
10	13.8143E+04	17.5695E+04	18.8372E+04	12.0477E+04	14.5781E+04	15.2246E+04
12	11.8938E+04	14.5681E+04	15.3917E+04	10.1235E+04	11.7832E+04	12.7208E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES					
	2	4	6	2	4	6
2	24.1306E+04	42.0872E+04	51.5208E+04	24.2213E+04	37.3982E+04	45.1293E+04
4	20.1448E+04	28.6901E+04	31.7147E+04	17.5885E+04	23.5845E+04	25.8476E+04
6	15.9566E+04	20.7884E+04	22.4594E+04	13.1796E+04	16.0508E+04	16.7565E+04
8	12.8367E+04	15.6508E+04	18.3727E+04	10.0403E+04	11.4529E+04	11.6803E+04
10	10.4336E+04	12.1047E+04	12.4246E+04	7.73115E+03	84.3678E+03	85.1168E+03
12	8.4335E+03	9.4462E+03	9.4387E+03	59.9599E+03	63.5252E+03	63.7764E+03

COBALT 60 SOURCE

RECTANGULAR GLASS SOURCE = 20 IN. X 90 IN. AIR GAP = 2.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2032E-01	10.1730E-01	10.1537E-01	10.2737E-01	10.2228E-01	10.1921E-01
4	10.0755E-01	10.5092E-01	10.4809E-01	10.8599E-01	10.6941E-01	10.6140E-01
6	11.5134E-01	11.0925E-01	10.9241E-01	11.6302E-01	11.3205E-01	11.1909E-01
8	12.0736E-01	11.6522E-01	11.4652E-01	12.8011E-01	12.4101E-01	12.0966E-01
10	12.9329E-01	12.3472E-01	12.0950E-01	13.6230E-01	13.0138E-01	12.7022E-01
12	13.0706E-01	13.1103E-01	12.8077E-01	14.0168E-01	14.0610E-01	13.0056E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3434E-01	10.2821E-01	10.2498E-01	10.4189E-01	10.3470E-01	10.3114E-01
4	11.0686E-01	10.0778E-01	10.7927E-01	11.3171E-01	11.1072E-01	11.0204E-01
6	12.0397E-01	11.7086E-01	11.5776E-01	12.5098E-01	12.2000E-01	12.0059E-01
8	13.2299E-01	12.7631E-01	12.5998E-01	14.1044E-01	13.6625E-01	13.5057E-01
10	14.6364E-01	14.0454E-01	13.8640E-01	15.9972E-01	15.4400E-01	15.3036E-01
12	16.2655E-01	15.5659E-01	15.3780E-01	18.2573E-01	17.6202E-01	17.5007E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.5036E-01	10.4237E-01	10.3842E-01	10.7076E-01	10.6113E-01	10.5663E-01
4	11.6117E-01	11.3856E-01	11.2990E-01	12.3510E-01	12.0980E-01	12.0162E-01
6	13.1736E-01	12.8201E-01	12.7109E-01	14.7915E-01	14.4327E-01	14.3422E-01
8	15.1990E-01	14.7456E-01	14.6589E-01	18.1295E-01	17.7138E-01	17.6464E-01
10	17.7361E-01	17.2211E-01	17.1216E-01	22.5274E-01	22.1014E-01	22.0333E-01
12	20.8527E-01	20.2904E-01	20.2156E-01	28.2330E-01	27.8168E-01	27.7849E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	26.0428E+04	45.7575E+04	61.3158E+04	25.3963E+04	43.9693E+04	58.1917E+04
4	22.3142E+04	36.4924E+04	46.1052E+04	21.3391E+04	34.1395E+04	42.2600E+04
6	19.7147E+04	30.1891E+04	36.7417E+04	18.3730E+04	27.3745E+04	32.6267E+04
8	17.4402E+04	25.6092E+04	30.3307E+04	16.1832E+04	23.9915E+04	26.1641E+04
10	15.3385E+04	22.1009E+04	25.6435E+04	14.2224E+04	19.2816E+04	21.5245E+04
12	13.9782E+04	19.3281E+04	22.0613E+04	12.5869E+04	16.4938E+04	18.0456E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	24.7122E+04	41.185E+04	54.6594E+04	24.6074E+04	39.9579E+04	51.0941E+04
4	20.4916E+04	3.422E+04	37.9235E+04	19.3951E+04	28.6013E+04	33.8012E+04
6	17.2744E+04	24.6102E+04	28.1757E+04	15.9504E+04	21.7755E+04	24.1885E+04
8	14.7326E+04	19.1915E+04	21.8666E+04	13.2715E+04	16.943E+04	18.194E+04
10	12.6769E+04	16.2264E+04	17.4570E+04	11.1362E+04	13.5493E+04	14.1738E+04
12	10.9707E+04	13.5235E+04	14.2619E+04	9.4057E+03	10.9950E+03	11.3232E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	23.2939E+04	37.9505E+04	47.6597E+04	21.8711E+04	34.1395E+04	41.6168E+04
4	20.3042E+04	26.2904E+04	36.1012E+04	18.2074E+04	21.8713E+04	26.0299E+04
6	14.6544E+04	19.2198E+04	20.8183E+04	12.2694E+04	15.0041E+04	15.8076E+04
8	11.8787E+04	14.5559E+04	15.2515E+04	9.0814E+03	10.7604E+03	10.9804E+04
10	97.0420E+03	11.3080E+04	11.6177E+04	72.7732E+03	79.5386E+03	83.2861E+03
12	79.8625E+03	89.5334E+03	90.9355E+03	56.6390E+03	60.0809E+03	63.3249E+03

RECTANGULAR SLAB SOURCE = 20 IN. X 90 IN. AIR GAP = 3.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES.

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1686E-01	10.1451E-01	10.1298E-01	10.2114E-01	10.1790E-01	10.1596E-01
4	10.5680E-01	10.4666E-01	10.4100E-01	10.6929E-01	10.5709E-01	10.5086E-01
6	11.1164E-01	10.9011E-01	10.7921E-01	11.3498E-01	11.1111E-01	11.0014E-01
8	11.7762E-01	11.4254E-01	11.2610E-01	12.1484E-01	11.7813E-01	11.6280E-01
10	12.5265E-01	12.0201E-01	11.8088E-01	13.0735E-01	12.5756E-01	12.3859E-01
12	13.3547E-01	12.7024E-01	12.4305E-01	14.1180E-01	13.4925E-01	13.2746E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2511E-01	10.2156E-01	10.1949E-01	10.2944E-01	10.2590E-01	10.2382E-01
4	10.8366E-01	10.7079E-01	10.6461E-01	11.0156E-01	10.8849E-01	10.8257E-01
6	11.6574E-01	11.4161E-01	11.3153E-01	12.0606E-01	11.8232E-01	11.7339E-01
8	12.6852E-01	12.3295E-01	12.1995E-01	13.4103E-01	13.0739E-01	12.9689E-01
10	13.9136E-01	13.4503E-01	13.3028E-01	15.0731E-01	14.6531E-01	14.5449E-01
12	15.3454E-01	14.7861E-01	14.6315E-01	17.0710E-01	16.5850E-01	16.4826E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3450E-01	10.3113E-01	10.2908E-01	10.4758E-01	10.4459E-01	10.4263E-01
4	11.2365E-01	11.1053E-01	11.0493E-01	11.8159E-01	11.6834E-01	11.6347E-01
6	12.5682E-01	12.3366E-01	12.2594E-01	13.9207E-01	13.7024E-01	13.6472E-01
8	14.3372E-01	14.0226E-01	13.9403E-01	16.8580E-01	16.5876E-01	16.5403E-01
10	16.5779E-01	16.2023E-01	16.1261E-01	20.7716E-01	20.4779E-01	20.4429E-01
12	19.3459E-01	18.9304E-01	18.8657E-01	25.8635E-01	25.5673E-01	25.5435E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	22.7265E+04	40.2936E+04	54.3601E+04	22.2886E+04	38.9811E+04	51.9539E+04
4	19.8747E+04	32.5267E+04	41.4830E+04	19.1751E+04	30.7217E+04	38.2972E+04
6	17.5671E+04	27.2343E+04	33.3743E+04	16.6924E+04	25.0634E+04	29.8454E+04
8	15.6626E+04	23.2709E+04	27.7428E+04	14.8626E+04	20.9209E+04	24.0808E+04
10	14.0665E+04	20.2065E+04	23.5841E+04	12.9729E+04	17.7549E+04	19.9058E+04
12	12.7120E+04	17.7626E+04	20.3814E+04	11.5466E+04	15.2603E+04	16.7551E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	21.8063E+04	37.4551E+04	49.1028E+04	21.2939E+04	35.8423E+04	46.1466E+04
4	18.3631E+04	28.5035E+04	34.5709E+04	17.4969E+04	26.2447E+04	30.9638E+04
6	15.6489E+04	22.5131E+04	25.9024E+04	14.5484E+04	20.0296E+04	22.3303E+04
8	13.4542E+04	18.2312E+04	20.2025E+04	12.2029E+04	15.7252E+04	16.8908E+04
10	11.0476E+04	15.0389E+04	16.2129E+04	10.3044E+04	12.6077E+04	13.2113E+04
12	10.1404E+04	12.5796E+04	13.2938E+04	87.4789E+03	10.2734E+04	10.5911E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	20.7621E+04	34.2136E+04	43.2485E+04	19.6707E+04	31.0524E+04	37.8895E+04
4	16.4122E+04	24.0799E+04	31.4912E+04	14.8685E+04	20.2119E+04	22.2709E+04
6	13.4915E+04	17.7637E+04	19.2944E+04	11.3816E+04	13.9832E+04	14.4390E+04
8	10.9879E+04	13.5243E+04	14.2075E+04	87.9229E+03	10.6372E+04	10.3000E+04
10	90.3444E+03	10.5658E+04	10.8659E+04	68.3714E+03	74.8991E+03	75.6041E+03
12	74.6765E+03	83.9779E+03	85.3409E+03	53.4335E+03	56.7568E+03	56.9949E+03



RECTANGULAR SLAB SOURCE = 20 IN. X 90 IN. AIR GAP = 4.0 IN.  $\epsilon = 0.00$   $\mu = 0.00$

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATIONS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	1 G/CC		3 G/CC		5 G/CC		7 G/CC		9 G/CC		1.3 G/CC	
	NUMBER OF PASSES	MINIMUM SPECIFIC DOSE RATE (RAD./HR.) PER CURIE/50 CM. 2 FOR 2+6 PASS IRRADIATIONS IN TARGETS OF VARIOUS DENSITIES	NUMBER OF PASSES	MINIMUM SPECIFIC DOSE RATE (RAD./HR.) PER CURIE/50 CM. 2 FOR 2+6 PASS IRRADIATIONS IN TARGETS OF VARIOUS DENSITIES	NUMBER OF PASSES	MINIMUM SPECIFIC DOSE RATE (RAD./HR.) PER CURIE/50 CM. 2 FOR 2+6 PASS IRRADIATIONS IN TARGETS OF VARIOUS DENSITIES	NUMBER OF PASSES	MINIMUM SPECIFIC DOSE RATE (RAD./HR.) PER CURIE/50 CM. 2 FOR 2+6 PASS IRRADIATIONS IN TARGETS OF VARIOUS DENSITIES	NUMBER OF PASSES	MINIMUM SPECIFIC DOSE RATE (RAD./HR.) PER CURIE/50 CM. 2 FOR 2+6 PASS IRRADIATIONS IN TARGETS OF VARIOUS DENSITIES	NUMBER OF PASSES	MINIMUM SPECIFIC DOSE RATE (RAD./HR.) PER CURIE/50 CM. 2 FOR 2+6 PASS IRRADIATIONS IN TARGETS OF VARIOUS DENSITIES
2	10.1405E-01	10.1225E-01	10.1106E-01	10.1666E-01	10.1550E-01	10.1550E-01	10.2087E-01	10.1561E-01	10.1676E-01	10.1550E-01	10.1561E-01	10.1561E-01
4	10.1817E-01	10.4001E-01	10.3529E-01	10.5656E-01	10.4001E-01	10.4001E-01	10.7916E-01	10.4796E-01	10.4796E-01	10.4796E-01	10.4796E-01	10.4796E-01
6	10.9577E-01	10.7790E-01	10.6860E-01	11.1275E-01	10.7790E-01	10.7790E-01	11.1275E-01	10.9429E-01	10.8529E-01	10.8529E-01	10.8529E-01	10.8529E-01
8	12.1925E-01	11.2390E-01	11.5739E-01	12.6327E-01	11.5739E-01	11.5739E-01	12.6327E-01	12.2228E-01	12.0678E-01	12.0678E-01	12.0678E-01	12.0678E-01
10	12.9201E-01	12.3669E-01	12.1256E-01	13.9538E-01	12.3669E-01	12.3669E-01	13.9538E-01	13.0342E-01	12.045E-01	12.045E-01	12.045E-01	12.045E-01
12	13.6632E-01	13.5972E-01	13.5972E-01	14.1666E-01	13.5972E-01	13.5972E-01	14.1666E-01	13.6612E-01	13.6612E-01	13.6612E-01	13.6612E-01	13.6612E-01
2	10.1866E-01	10.1676E-01	10.1550E-01	10.1550E-01	10.1550E-01	10.1550E-01	10.2087E-01	10.1561E-01	10.1676E-01	10.1550E-01	10.1561E-01	10.1561E-01
4	10.4632E-01	10.7922E-01	10.5351E-01	10.7916E-01	10.5351E-01	10.5351E-01	10.7916E-01	10.4796E-01	10.4796E-01	10.4796E-01	10.4796E-01	10.4796E-01
6	11.3615E-01	11.1889E-01	11.1193E-01	11.6832E-01	11.1193E-01	11.1193E-01	11.6832E-01	11.6440E-01	11.6440E-01	11.6440E-01	11.6440E-01	11.6440E-01
8	12.2591E-01	11.9872E-01	11.8843E-01	12.6632E-01	11.8843E-01	11.8843E-01	12.6632E-01	12.6469E-01	12.6469E-01	12.6469E-01	12.6469E-01	12.6469E-01
10	13.3582E-01	12.9755E-01	12.8560E-01	14.3355E-01	12.9755E-01	12.9755E-01	14.3355E-01	14.2956E-01	13.9415E-01	13.9415E-01	13.9415E-01	13.9415E-01
12	14.6043E-01	14.1605E-01	14.0328E-01	16.1166E-01	14.1605E-01	14.1605E-01	16.1166E-01	15.7474E-01	15.6612E-01	15.6612E-01	15.6612E-01	15.6612E-01
2	20.2022E+04	35.7809E+04	48.5638E+04	19.7147E+04	34.7909E+04	46.6641E+04	19.7147E+04	34.7909E+04	46.6641E+04	34.7909E+04	46.6641E+04	46.6641E+04
4	15.7888E+04	24.7019E+04	30.4731E+04	35.0733E+04	22.8756E+04	27.4010E+04	35.0733E+04	22.8756E+04	27.4010E+04	22.8756E+04	27.4010E+04	27.4010E+04
6	14.1482E+04	21.2138E+04	25.4930E+04	13.3401E+04	19.2292E+04	22.2292E+04	13.3401E+04	19.2292E+04	22.2292E+04	19.2292E+04	22.2292E+04	22.2292E+04
8	12.7829E+04	18.3561E+04	21.7795E+04	11.8781E+04	16.4823E+04	18.4823E+04	11.8781E+04	16.4823E+04	18.4823E+04	16.4823E+04	18.4823E+04	18.4823E+04
10	11.6129E+04	16.3883E+04	18.8995E+04	10.6269E+04	14.1603E+04	15.6009E+04	10.6269E+04	14.1603E+04	15.6009E+04	14.1603E+04	15.6009E+04	15.6009E+04
12	11.6129E+04	16.3883E+04	18.8995E+04	10.6269E+04	14.1603E+04	15.6009E+04	10.6269E+04	14.1603E+04	15.6009E+04	14.1603E+04	15.6009E+04	15.6009E+04
2	17.370E+04	30.9314E+04	39.2417E+04	17.713E+04	28.262E+04	34.888E+04	17.713E+04	28.262E+04	34.888E+04	28.262E+04	34.888E+04	34.888E+04
4	13.1011E+04	22.0904E+04	25.5164E+04	13.6324E+04	18.772E+04	20.4371E+04	13.6324E+04	18.772E+04	20.4371E+04	18.772E+04	20.4371E+04	20.4371E+04
6	12.3948E+04	18.4379E+04	17.9050E+04	10.5499E+04	13.829E+04	15.5499E+04	10.5499E+04	13.829E+04	15.5499E+04	13.829E+04	15.5499E+04	15.5499E+04
8	10.1732E+04	12.6823E+04	13.7459E+04	8.2109E+04	10.7209E+04	11.7209E+04	8.2109E+04	10.7209E+04	11.7209E+04	10.7209E+04	11.7209E+04	11.7209E+04
10	8.41532E+03	8.81532E+03	10.172E+04	5.2664E+03	5.2664E+03	5.2664E+03	5.2664E+03	5.2664E+03	5.2664E+03	5.2664E+03	5.2664E+03	5.2664E+03
12	5.9147E+03	7.8044E+03	8.01724E+03	3.9044E+03	3.9044E+03	3.9044E+03	3.9044E+03	3.9044E+03	3.9044E+03	3.9044E+03	3.9044E+03	3.9044E+03



COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 20 IN. X 90 IN. AIR GAP = 6.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1019E-01	10.0909E-01	10.0829E-01	10.1085E-01	10.0990E-01	10.0919E-01
4	10.3594E-01	10.3044E-01	10.2707E-01	10.3931E-01	10.3411E-01	10.3144E-01
6	10.7279E-01	10.6010E-01	10.5316E-01	10.8141E-01	10.7012E-01	10.6420E-01
8	11.1021E-01	10.9477E-01	10.8537E-01	11.3494E-01	11.1946E-01	11.0576E-01
10	11.7068E-01	11.3872E-01	11.2377E-01	11.9866E-01	11.7111E-01	11.5941E-01
12	12.2920E-01	11.8634E-01	11.6742E-01	12.7189E-01	12.3579E-01	12.2216E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1076E-01	10.1061E-01	10.1029E-01	10.1051E-01	10.1164E-01	10.1185E-01
4	10.4316E-01	10.4039E-01	10.3832E-01	10.4927E-01	10.4912E-01	10.4810E-01
6	10.9471E-01	10.8481E-01	10.8254E-01	11.1538E-01	11.1117E-01	11.0846E-01
8	11.6357E-01	11.4936E-01	11.4311E-01	12.0740E-01	11.9799E-01	11.9399E-01
10	12.4894E-01	12.2813E-01	12.2046E-01	13.2529E-01	13.1048E-01	13.0598E-01
12	13.5070E-01	13.2399E-01	13.1512E-01	14.7011E-01	14.5088E-01	14.4605E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1032E-01	10.1520E-01	10.1400E-01	10.1228E-01	10.1870E-01	10.2032E-01
4	10.5855E-01	10.6108E-01	10.6099E-01	10.6827E-01	10.9541E-01	10.9662E-01
6	11.4461E-01	11.4371E-01	11.4229E-01	12.3093E-01	12.3495E-01	12.3498E-01
8	12.6791E-01	12.6256E-01	12.6017E-01	14.4329E-01	14.4322E-01	14.4290E-01
10	14.2995E-01	14.2537E-01	14.1766E-01	17.3422E-01	17.3127E-01	17.3031E-01
12	16.3407E-01	16.2101E-01	16.1841E-01	21.1794E-01	21.1294E-01	21.1167E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/50.CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	15.9226E+04	20.8285E+04	39.5289E+04	15.7586E+04	20.2264E+04	30.2032E+04
4	14.2885E+04	24.9979E+04	51.2780E+04	13.9782E+04	23.0624E+04	29.2098E+04
6	12.9059E+04	20.6273E+04	25.7933E+04	12.4678E+04	19.2868E+04	23.5466E+04
8	11.7228E+04	17.9549E+04	21.1881E+04	11.1741E+04	16.4011E+04	19.1597E+04
10	10.7064E+04	15.8113E+04	18.7754E+04	10.0564E+04	14.1272E+04	16.0319E+04
12	98.0529E+03	14.0464E+04	16.4166E+04	90.8423E+03	12.2927E+04	13.6326E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	15.5983E+04	27.4344E+04	34.6238E+04	15.3504E+04	24.5321E+04	34.7868E+04
4	13.4406E+04	21.3094E+04	29.7631E+04	13.0978E+04	20.3093E+04	24.3278E+04
6	11.8761E+04	17.5641E+04	20.4939E+04	11.3037E+04	15.6088E+04	17.8230E+04
8	10.4298E+04	14.4892E+04	16.2263E+04	94.0493E+03	12.6330E+04	13.6734E+04
10	91.8939E+03	12.1192E+04	13.1741E+04	82.5475E+03	10.2698E+04	10.8156E+04
12	81.2044E+03	10.2587E+04	10.9066E+04	71.1149E+03	84.6330E+03	87.5399E+03

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	15.0753E+04	25.5722E+04	32.9065E+04	14.5184E+04	23.6362E+04	29.2704E+04
4	12.5685E+04	18.7330E+04	21.0277E+04	11.9119E+04	16.8028E+04	17.7959E+04
6	10.4769E+04	14.1885E+04	15.3111E+04	90.8778E+03	11.3305E+04	11.9217E+04
8	87.6550E+03	10.9764E+04	11.5016E+04	71.7491E+03	83.1381E+03	8.0794E+03
10	73.3303E+03	86.8434E+03	89.5196E+03	56.7223E+03	62.9542E+03	63.2844E+03
12	61.4890E+03	69.7934E+03	71.8487E+03	44.9159E+03	47.9177E+03	48.1303E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 20 IN. X 40 IN. AIR GAP = 7.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0885E-01	10.0796E-01	10.0730E-01	10.0897E-01	10.0835E-01	10.0789E-01
4	10.3154E-01	10.2693E-01	10.2404E-01	10.3333E-01	10.2972E-01	10.2740E-01
6	10.6433E-01	10.5340E-01	10.4744E-01	10.7014E-01	10.6136E-01	10.5653E-01
8	11.0502E-01	10.8621E-01	10.7658E-01	11.757E-01	11.0223E-01	10.9482E-01
10	11.5225E-01	11.2432E-01	11.1101E-01	11.7456E-01	11.5195E-01	11.4219E-01
12	12.0510E-01	11.6738E-01	11.5043E-01	12.4046E-01	12.1039E-01	11.9669E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0826E-01	10.0857E-01	0.0853E-01	10.0729E-01	10.0902E-01	10.0760E-01
4	10.3523E-01	10.3418E-01	10.3297E-01	10.3904E-01	10.4118E-01	10.4115E-01
6	10.7988E-01	10.7521E-01	10.7221E-01	10.9638E-01	10.9613E-01	10.9480E-01
8	11.4082E-01	11.3119E-01	11.2649E-01	11.7829E-01	11.7417E-01	11.7167E-01
10	12.1735E-01	12.0225E-01	11.9626E-01	12.8472E-01	12.7634E-01	12.7311E-01
12	13.0932E-01	12.8894E-01	12.8206E-01	14.1655E-01	14.0416E-01	14.0065E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0645E-01	10.0993E-01	10.1119E-01	10.0617E-01	10.1357E-01	10.1618E-01
4	10.4573E-01	10.5112E-01	10.5214E-01	10.6955E-01	10.8062E-01	10.8313E-01
6	11.2094E-01	11.2469E-01	11.2459E-01	11.9658E-01	12.0613E-01	12.0743E-01
8	12.3140E-01	12.3203E-01	12.3103E-01	13.8999E-01	13.9632E-01	13.9668E-01
10	13.7899E-01	13.7594E-01	13.7432E-01	16.5743E-01	16.6006E-01	16.6091E-01
12	15.6597E-01	15.5961E-01	15.5796E-01	20.1143E-01	20.1198E-01	20.1174E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	14.3455E+04	26.1145E+04	35.9633E+04	14.2224E+04	25.6335E+04	34.7323E+04
4	12.9568E+04	22.0208E+04	29.7292E+04	12.7126E+04	21.1488E+04	27.0026E+04
6	11.7492E+04	18.9731E+04	23.8209E+04	11.6115E+04	17.8093E+04	21.6723E+04
8	10.7428E+04	16.8007E+04	20.2456E+04	10.2832E+04	15.2311E+04	17.8544E+04
10	98.4478E+03	14.4874E+04	17.5149E+04	92.9882E+03	13.1666E+04	14.9876E+04
12	90.6397E+03	13.1338E+04	15.3578E+04	84.3479E+03	11.4966E+04	12.7990E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	14.8665E+04	24.9769E+04	33.5124E+04	13.8838E+04	24.2132E+04	31.9119E+04
4	12.3775E+04	19.9538E+04	24.7462E+04	11.9819E+04	18.6437E+04	22.4370E+04
6	10.9103E+04	16.7706E+04	19.0670E+04	10.3294E+04	14.8848E+04	16.6162E+04
8	96.3887E+03	13.4864E+04	15.1613E+04	89.1132E+03	11.7967E+04	12.7996E+04
10	83.5551E+03	11.3319E+04	12.3502E+04	76.9870E+03	96.2813E+03	10.1374E+04
12	75.7553E+03	96.2511E+03	10.2528E+04	66.6179E+03	79.6192E+03	82.4494E+03

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	13.6741E+04	23.3098E+04	30.2932E+04	13.2203E+04	21.6759E+04	27.0158E+04
4	11.5464E+04	17.3267E+04	20.2782E+04	10.6157E+04	14.8422E+04	16.5761E+04
6	97.8998E+03	13.1878E+04	14.4850E+04	84.5520E+03	10.8826E+04	11.1649E+04
8	81.0114E+03	10.2761E+04	10.8590E+04	67.1998E+03	78.1582E+03	88.0256E+03
10	65.8427E+03	81.6198E+03	94.2781E+03	53.4826E+03	56.8268E+03	59.8594E+03
12	57.0914E+03	69.8139E+03	67.8349E+03	42.4451E+03	45.3782E+03	45.9899E+03

RECTANGULAR SLAB SOURCE = 20 LN. X120 IN.

AIR GAP = 0.0 IN.

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	99.6531E-02	10.0541E-01	10.0708E-01	10.1544E-01	10.1772E-01	10.1688E-01
4	10.5103E-01	10.4790E-01	10.4345E-01	10.8846E-01	10.7512E-01	10.6724E-01
6	11.2924E-01	11.0808E-01	10.9585E-01	11.8691E-01	11.5348E-01	11.3844E-01
8	12.2147E-01	11.8093E-01	11.5974E-01	13.0205E-01	12.4899E-01	12.2724E-01
10	13.2459E-01	12.6168E-01	12.3357E-01	14.3270E-01	13.6006E-01	13.3294E-01
12	14.3706E-01	13.5203E-01	13.1642E-01	15.7935E-01	14.8661E-01	14.5551E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3487E-01	10.3099E-01	10.2791E-01	10.5526E-01	10.4557E-01	10.4044E-01
4	11.3027E-01	11.0720E-01	10.9677E-01	11.7640E-01	11.4506E-01	11.3269E-01
6	12.9423E-01	12.1177E-01	11.9526E-01	13.3366E-01	12.8367E-01	12.6693E-01
8	14.0257E-01	13.4231E-01	13.2163E-01	15.2645E-01	14.6149E-01	14.4303E-01
10	15.7563E-01	14.9941E-01	14.7638E-01	17.5808E-01	16.8142E-01	16.6317E-01
12	17.7476E-01	16.8452E-01	16.6064E-01	20.3294E-01	19.4749E-01	19.3084E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.7684E-01	10.6163E-01	10.5463E-01	11.2401E-01	10.9859E-01	10.8937E-01
4	12.2800E-01	11.8921E-01	11.7545E-01	13.4921E-01	12.9796E-01	12.8284E-01
6	14.2659E-01	13.7049E-01	13.5425E-01	16.3788E-01	15.9342E-01	15.7953E-01
8	16.7602E-01	16.0874E-01	15.9254E-01	20.6755E-01	19.9867E-01	19.8812E-01
10	19.8543E-01	19.1038E-01	18.9656E-01	26.0229E-01	25.3418E-01	25.2694E-01
12	23.5281E-01	22.8586E-01	22.7254E-01	32.9218E-01	32.2781E-01	32.2314E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	35.0661E+04	40.5728E+04	40.1492E+04	33.4320E+04	56.7312E+04	74.0768E+04
4	29.6925E+04	47.1026E+04	56.7676E+04	27.6390E+04	42.8219E+04	52.3274E+04
6	25.5067E+04	38.2907E+04	46.1258E+04	23.3291E+04	33.9322E+04	39.7411E+04
8	22.2192E+04	32.7612E+04	37.7038E+04	19.9990E+04	27.7306E+04	31.5062E+04
10	19.5764E+04	27.4115E+04	31.6607E+04	17.3456E+04	23.1548E+04	25.7055E+04
12	17.4100E+04	23.8032E+04	27.1026E+04	15.1829E+04	19.6435E+04	21.4124E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	31.8132E+04	52.9957E+04	88.0981E+04	30.3090E+04	49.4638E+04	62.5001E+04
4	25.6484E+04	38.5874E+04	45.9830E+04	23.7629E+04	36.6649E+04	46.3187E+04
6	21.1825E+04	29.6285E+04	33.6218E+04	19.1588E+04	25.7688E+04	28.4336E+04
8	17.7826E+04	23.5137E+04	25.7980E+04	15.7131E+04	19.8611E+04	21.1821E+04
10	15.1925E+04	19.0938E+04	22.4390E+04	13.0563E+04	15.7810E+04	16.3766E+04
12	12.9391E+04	15.7757E+04	16.5876E+04	10.9065E+04	12.6479E+04	13.0807E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	26.8785E+04	46.1677E+04	57.3421E+04	26.2630E+04	48.2946E+04	48.4735E+04
4	21.9987E+04	31.1316E+04	35.3804E+04	18.8434E+04	29.1724E+04	27.5440E+04
6	17.2492E+04	22.4891E+04	24.1598E+04	14.8316E+04	17.0482E+04	17.7824E+04
8	13.8123E+04	16.7988E+04	17.3444E+04	10.6511E+04	12.1769E+04	12.3622E+04
10	11.1943E+04	12.4444E+04	13.2762E+04	81.7893E+03	89.1312E+03	89.9035E+03
12	91.3294E+03	10.1826E+04	10.3320E+04	63.2896E+03	66.9670E+03	67.2444E+03

RECTANGULAR SLAB SOURCE = 20 IN. X120 IN.

AIR GAP = 1.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2244E-01	10.1944E-01	10.1723E-01	10.3414E-01	10.2757E-01	10.2400E-01
4	10.7709E-01	10.6208E-01	10.5404E-01	11.0452E-01	10.8293E-01	10.7284E-01
6	11.4921E-01	11.1495E-01	11.0324E-01	11.9465E-01	11.5351E-01	11.3928E-01
8	12.3383E-01	11.8474E-01	11.6243E-01	13.0055E-01	12.4404E-01	12.2101E-01
10	13.2849E-01	12.5994E-01	12.3046E-01	14.2087E-01	13.4672E-01	13.1949E-01
12	14.3173E-01	13.4302E-01	13.0649E-01	15.5507E-01	14.6382E-01	14.3299E-01

  

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.4400E-01	10.3648E-01	10.3177E-01	10.5878E-01	10.6452E-01	10.4081E-01
4	11.3494E-01	11.0822E-01	10.9689E-01	11.3990E-01	11.3848E-01	11.2655E-01
6	12.4917E-01	12.0524E-01	11.8854E-01	13.1491E-01	12.6713E-01	12.5112E-01
8	13.8633E-01	13.2844E-01	13.0604E-01	14.9388E-01	14.3254E-01	14.1502E-01
10	15.4672E-01	14.7242E-01	14.5002E-01	17.0955E-01	16.3753E-01	16.2026E-01
12	17.3138E-01	16.4444E-01	16.2140E-01	19.6562E-01	18.8563E-01	18.6972E-01

  

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.7271E-01	10.5785E-01	10.5124E-01	11.0454E-01	10.8477E-01	10.7460E-01
4	12.0988E-01	11.7471E-01	11.6214E-01	13.0455E-01	12.6482E-01	12.5219E-01
6	13.9303E-01	13.4234E-01	13.2749E-01	15.9035E-01	15.3652E-01	15.2481E-01
8	16.2542E-01	15.6398E-01	15.4947E-01	19.7104E-01	19.1219E-01	19.0298E-01
10	19.1345E-01	18.4535E-01	18.3260E-01	24.6945E-01	24.1044E-01	24.0409E-01
12	22.6405E-01	21.9401E-01	21.8344E-01	31.1313E-01	30.5487E-01	30.5271E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.-CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	30.2057E+04	32.6849E+04	70.2602E+04	29.1774E+04	50.0228E+04	45.7812E+04
4	25.8378E+04	41.6818E+04	53.3744E+04	24.8244E+04	38.3678E+04	47.1844E+04
6	22.4792E+04	34.2354E+04	41.5921E+04	20.8473E+04	30.4874E+04	36.1832E+04
8	19.7794E+04	28.9394E+04	34.2932E+04	18.0329E+04	25.2879E+04	28.6948E+04
10	17.5753E+04	24.9320E+04	28.8925E+04	15.7548E+04	21.2544E+04	23.7075E+04
12	15.7439E+04	21.7875E+04	24.8548E+04	13.8830E+04	18.1297E+04	19.8389E+04

  

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	28.1491E+04	47.3851E+04	61.1598E+04	27.1331E+04	44.6478E+04	56.7095E+04
4	22.4645E+04	34.4912E+04	41.6373E+04	21.6321E+04	31.6707E+04	36.4681E+04
6	19.1560E+04	27.8494E+04	30.8454E+04	17.5149E+04	23.7263E+04	26.2482E+04
8	16.2882E+04	21.8163E+04	23.8004E+04	14.4405E+04	18.3919E+04	19.6419E+04
10	13.8547E+04	17.6509E+04	18.9482E+04	12.0618E+04	14.6037E+04	15.2373E+04
12	11.9358E+04	14.6481E+04	15.4392E+04	10.1574E+04	11.6075E+04	12.1502E+04

  

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	26.1372E+04	42.8991E+04	51.2376E+04	24.2233E+04	37.4810E+04	45.1327E+04
4	20.1725E+04	28.7805E+04	32.7290E+04	17.5874E+04	23.5861E+04	25.8497E+04
6	15.9619E+04	20.7978E+04	22.4720E+04	13.8377E+04	16.0520E+04	18.7578E+04
8	12.8417E+04	16.6594E+04	16.3837E+04	10.6409E+04	11.4238E+04	11.6814E+04
10	10.4385E+04	12.1126E+04	12.4941E+04	7.7316E+03	84.3754E+03	89.1251E+03
12	8.5479E+03	9.9394E+03	97.0219E+03	59.9648E+03	63.5323E+03	63.7832E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 20 IN. X 120 IN.

AIR GAP = 2.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1991E-01	10.1696E-01	10.1393E-01	10.2704E-01	10.2224E-01	10.1935E-01
4	10.6567E-01	10.5309E-01	10.4427E-01	10.8492E-01	10.6841E-01	10.6039E-01
6	11.2709E-01	11.0112E-01	10.8023E-01	11.6170E-01	11.3094E-01	11.1679E-01
8	11.9988E-01	11.5826E-01	11.3806E-01	12.5210E-01	12.0422E-01	11.8743E-01
10	12.8178E-01	12.2917E-01	11.9733E-01	13.5640E-01	12.9966E-01	12.7197E-01
12	13.7139E-01	12.9909E-01	12.6333E-01	14.7313E-01	13.9680E-01	13.7037E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3430E-01	10.2856E-01	10.2492E-01	10.4220E-01	10.3496E-01	10.3129E-01
4	11.0665E-01	10.8752E-01	10.7897E-01	11.3232E-01	11.1109E-01	11.0232E-01
6	12.3941E-01	11.7015E-01	11.5695E-01	12.6574E-01	12.2091E-01	12.0065E-01
8	13.2104E-01	12.7488E-01	12.5831E-01	14.1124E-01	13.4464E-01	13.2076E-01
10	14.4167E-01	14.0204E-01	13.8350E-01	16.0050E-01	15.4415E-01	15.2028E-01
12	16.2343E-01	15.5257E-01	15.3328E-01	18.2631E-01	17.4265E-01	17.4959E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.9104E-01	10.4281E-01	10.3877E-01	10.7203E-01	10.6197E-01	10.5733E-01
4	11.6243E-01	11.3344E-01	11.3065E-01	12.3734E-01	12.1147E-01	12.0309E-01
6	13.1918E-01	12.8330E-01	12.7224E-01	14.8221E-01	14.4577E-01	14.3729E-01
8	15.2818E-01	14.7664E-01	14.6344E-01	18.1461E-01	17.7491E-01	17.6009E-01
10	17.7629E-01	17.2421E-01	17.1413E-01	22.5000E-01	22.1495E-01	22.1006E-01
12	20.6842E-01	20.3234E-01	20.2391E-01	26.3014E-01	27.0005E-01	27.0481E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ. CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	26.2007E+04	46.1704E+04	62.6550E+04	29.5667E+04	44.2179E+04	58.7912E+04
4	22.7311E+04	37.0448E+04	47.8130E+04	31.6403E+04	34.4210E+04	42.5900E+04
6	19.9756E+04	30.8267E+04	37.7512E+04	10.7112E+04	27.8735E+04	33.0622E+04
8	17.7340E+04	26.2830E+04	31.3698E+04	16.3269E+04	23.1526E+04	28.6822E+04
10	15.8786E+04	22.7991E+04	26.6832E+04	14.3733E+04	19.3819E+04	21.9428E+04
12	14.3149E+04	20.0377E+04	23.0643E+04	12.7407E+04	16.7893E+04	18.4617E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	24.7883E+04	42.1339E+04	54.8700E+04	24.8594E+04	46.0434E+04	51.2844E+04
4	20.5361E+04	31.5677E+04	38.1160E+04	19.4360E+04	28.8050E+04	33.0050E+04
6	17.3450E+04	25.7388E+04	28.3523E+04	13.7000E+04	21.8299E+04	26.2371E+04
8	14.7990E+04	19.9124E+04	22.0098E+04	13.3011E+04	17.9312E+04	18.2544E+04
10	12.7361E+04	16.3584E+04	17.6034E+04	11.1638E+04	13.7980E+04	14.2234E+04
12	11.0341E+04	13.6507E+04	14.3343E+04	94.2969E+03	11.8329E+04	11.3661E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	23.3291E+04	38.0017E+04	47.7216E+04	21.8878E+04	34.1829E+04	41.4379E+04
4	18.3259E+04	28.3215E+04	36.1302E+04	16.2134E+04	21.8700E+04	24.9302E+04
6	14.4729E+04	19.3433E+04	23.8853E+04	12.2379E+04	15.8883E+04	18.6871E+04
8	11.8015E+04	14.9733E+04	18.2724E+04	94.1889E+03	14.7832E+04	16.7832E+04
10	97.1991E+03	11.3202E+04	11.4347E+04	72.7899E+03	79.3783E+03	86.3868E+03
12	79.9930E+03	89.6610E+03	91.8792E+03	56.6317E+03	66.8799E+03	69.3482E+03

RECTANGULAR SLAB SOURCE = 20 IN. X120 IN.

AIR GAP = 3.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1622E-01	10.1401E-01	10.1250E-01	10.2029E-01	10.1749E-01	10.1576E-01
4	10.5491E-01	10.4482E-01	10.3921E-01	10.4849E-01	10.3629E-01	10.3080E-01
6	11.0743E-01	10.8614E-01	10.7524E-01	11.3323E-01	11.0929E-01	10.9820E-01
8	11.7044E-01	11.3500E-01	11.1904E-01	12.1173E-01	11.7478E-01	11.5917E-01
10	12.4174E-01	11.9202E-01	11.6981E-01	13.0240E-01	12.5210E-01	12.3265E-01
12	13.2001E-01	12.5470E-01	12.2703E-01	14.0448E-01	13.4105E-01	13.1956E-01

  

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2539E-01	10.2173E-01	10.1961E-01	10.3032E-01	10.2649E-01	10.2429E-01
4	10.8620E-01	10.7109E-01	10.6474E-01	11.0344E-01	10.8974E-01	10.8361E-01
6	11.6634E-01	11.4176E-01	11.3145E-01	12.0878E-01	11.8420E-01	11.7499E-01
8	12.6897E-01	12.3273E-01	12.1900E-01	13.4466E-01	13.0982E-01	12.9899E-01
10	13.9138E-01	13.4413E-01	13.2892E-01	15.1137E-01	14.5802E-01	14.5702E-01
12	15.3384E-01	14.7468E-01	14.6083E-01	17.1109E-01	16.3175E-01	16.3113E-01

  

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3603E-01	10.3214E-01	10.2989E-01	10.5033E-01	10.4641E-01	10.4413E-01
4	11.2475E-01	11.1271E-01	11.0683E-01	11.8445E-01	11.7210E-01	11.6488E-01
6	12.6132E-01	12.3703E-01	12.2982E-01	13.9930E-01	13.7613E-01	13.7034E-01
8	14.3999E-01	14.0693E-01	13.9842E-01	16.9549E-01	16.6719E-01	16.6228E-01
10	16.6511E-01	16.2630E-01	16.1842E-01	20.8922E-01	20.5931E-01	20.5567E-01
12	19.4348E-01	19.0045E-01	18.9395E-01	26.0267E-01	25.7203E-01	25.6957E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CH.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	22.9724E+04	40.8774E+04	55.2803E+04	22.4792E+04	39.3435E+04	52.5244E+04
4	26.1624E+04	33.2428E+04	42.5294E+04	19.3668E+04	31.1018E+04	38.8563E+04
6	17.6850E+04	27.9400E+04	34.4672E+04	16.8843E+04	25.7519E+04	30.3812E+04
8	16.0527E+04	24.0828E+04	28.8428E+04	14.8538E+04	21.2888E+04	24.5877E+04
10	14.4229E+04	20.9501E+04	24.6692E+04	13.1627E+04	18.1872E+04	20.3811E+04
12	13.0804E+04	18.5088E+04	21.4387E+04	11.7351E+04	15.9946E+04	17.1979E+04

  

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	21.9522E+04	37.7107E+04	49.4510E+04	21.4045E+04	36.0135E+04	46.3480E+04
4	18.4867E+04	28.7140E+04	34.5320E+04	17.3742E+04	28.3464E+04	31.1057E+04
6	15.7585E+04	22.6749E+04	28.1427E+04	14.6891E+04	20.1184E+04	22.4442E+04
8	13.5548E+04	18.3988E+04	20.6118E+04	12.7390E+04	15.7978E+04	18.7644E+04
10	11.7403E+04	15.1863E+04	16.3975E+04	10.5474E+04	12.6498E+04	13.2818E+04
12	10.2273E+04	12.7199E+04	13.4571E+04	87.8589E+03	10.3263E+04	10.6563E+04

  

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	20.8453E+04	34.3296E+04	43.3040E+04	19.7170E+04	31.1879E+04	37.9488E+04
4	16.6681E+04	26.1643E+04	27.7649E+04	14.8865E+04	20.2326E+04	22.2727E+04
6	13.4843E+04	17.8078E+04	19.3495E+04	11.3908E+04	13.9958E+04	14.6441E+04
8	11.8123E+04	13.5689E+04	14.2031E+04	87.9787E+03	10.8935E+04	10.3864E+04
10	98.3486E+03	10.9999E+04	10.8932E+04	68.4890E+03	74.9418E+03	79.8501E+03
12	74.8370E+03	84.1818E+03	89.5799E+03	53.4684E+03	56.7873E+03	57.0262E+03



RECTANGULAR SLAB SOURCE = 20 IN. X120 IN.

AIR GAP = 4.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1355E-01	10.1180E-01	10.1060E-01	10.1651E-01	10.1433E-01	10.1295E-01
4	10.4636E-01	10.3834E-01	10.3366E-01	10.5609E-01	10.4703E-01	10.4213E-01
6	10.9195E-01	10.7429E-01	10.6499E-01	11.1156E-01	10.9280E-01	10.8375E-01
8	11.4703E-01	11.1757E-01	11.0325E-01	11.7983E-01	11.4798E-01	11.3694E-01
10	12.0969E-01	11.6714E-01	11.4775E-01	12.5938E-01	12.1794E-01	12.0146E-01
12	12.7870E-01	12.2234E-01	11.9803E-01	13.4942E-01	12.9647E-01	12.7722E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1915E-01	10.1709E-01	10.1575E-01	10.2209E-01	10.2045E-01	10.1926E-01
4	10.6745E-01	10.5860E-01	10.5399E-01	10.8201E-01	10.7376E-01	10.6959E-01
6	11.3775E-01	11.1976E-01	11.1176E-01	11.7266E-01	11.5588E-01	11.4908E-01
8	12.2735E-01	11.9996E-01	11.8885E-01	12.9203E-01	12.6680E-01	12.5843E-01
10	13.3541E-01	12.9810E-01	12.8562E-01	14.4053E-01	14.0784E-01	13.9896E-01
12	14.6197E-01	14.1594E-01	14.0259E-01	16.1987E-01	15.8108E-01	15.7248E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2568E-01	10.2459E-01	10.2358E-01	10.3544E-01	10.3552E-01	10.3487E-01
4	11.0037E-01	10.9277E-01	10.8906E-01	11.4943E-01	11.4302E-01	11.4016E-01
6	12.1705E-01	12.0153E-01	11.9586E-01	13.3631E-01	13.2314E-01	13.1943E-01
8	13.7505E-01	13.5240E-01	13.4607E-01	16.0158E-01	15.8366E-01	15.8027E-01
10	15.7705E-01	15.4882E-01	15.4276E-01	19.5768E-01	19.3713E-01	19.3452E-01
12	18.2776E-01	17.9562E-01	17.9035E-01	24.2251E-01	24.0103E-01	23.9920E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	20.3383E+04	36.4596E+04	49.8290E+04	19.9756E+04	35.2908E+04	47.3927E+04
4	18.0269E+04	30.0339E+04	38.8947E+04	17.4100E+04	29.2567E+04	39.5377E+04
6	16.1213E+04	25.4674E+04	31.8333E+04	15.3152E+04	23.3192E+04	28.0196E+04
8	14.9247E+04	22.0294E+04	26.6404E+04	13.5725E+04	19.6451E+04	22.8105E+04
10	13.1595E+04	19.3353E+04	22.8996E+04	12.1019E+04	16.8022E+04	18.9938E+04
12	12.0066E+04	17.1617E+04	19.9830E+04	10.8466E+04	14.5398E+04	16.0866E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	19.5764E+04	33.9496E+04	44.8048E+04	19.1521E+04	32.5418E+04	42.1543E+04
4	16.7016E+04	26.2071E+04	31.9987E+04	15.9496E+04	26.1522E+04	33.6457E+04
6	14.3733E+04	20.8994E+04	24.1893E+04	13.3898E+04	18.5918E+04	20.8146E+04
8	12.6556E+04	17.0688E+04	18.9880E+04	11.3147E+04	16.8884E+04	18.8250E+04
10	10.8592E+04	14.1451E+04	15.3166E+04	96.1248E+03	11.8352E+04	12.4293E+04
12	95.0555E+03	11.8933E+04	12.6130E+04	82.0262E+03	96.8439E+03	99.9967E+03

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	18.7112E+04	31.1244E+04	39.5703E+04	17.8038E+04	29.3724E+04	34.8002E+04
4	15.1829E+04	22.1970E+04	25.6357E+04	13.6688E+04	18.7137E+04	20.6802E+04
6	12.1313E+04	16.5075E+04	17.9816E+04	10.5685E+04	13.0494E+04	13.6784E+04
8	10.2130E+04	12.6524E+04	13.3038E+04	82.2196E+03	94.6347E+03	96.7008E+03
10	84.4599E+03	99.2030E+03	10.2139E+04	64.2783E+03	70.5489E+03	71.2579E+03
12	70.1409E+03	79.1444E+03	80.4884E+03	50.4486E+03	53.6442E+03	53.8972E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE: = 20 IN. X 120 IN.

AIR GAP = 5.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1145E-01	10.1008E-01	10.0912E-01	10.1328E-01	10.1181E-01	10.1081E-01
4	10.3977E-01	10.3321E-01	10.2927E-01	10.4440E-01	10.3984E-01	10.3597E-01
6	10.7965E-01	10.6482E-01	10.5682E-01	10.6350E-01	10.5795E-01	10.5233E-01
8	11.2022E-01	11.0306E-01	10.9058E-01	11.5432E-01	11.5012E-01	11.4619E-01
10	11.6373E-01	11.4701E-01	11.2994E-01	12.2462E-01	11.9037E-01	11.7639E-01
12	12.4568E-01	11.9607E-01	11.7450E-01	13.0465E-01	12.6029E-01	12.4377E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1644E-01	10.1305E-01	10.1285E-01	10.1617E-01	10.1599E-01	10.1551E-01
4	10.5467E-01	10.4697E-01	10.4546E-01	10.6565E-01	10.6141E-01	10.5676E-01
6	11.1925E-01	11.0295E-01	10.9623E-01	11.4422E-01	11.3351E-01	11.2645E-01
8	11.9403E-01	11.7299E-01	11.6445E-01	12.5000E-01	12.3232E-01	12.2599E-01
10	12.9010E-01	12.6089E-01	12.5009E-01	13.6314E-01	13.5902E-01	13.5206E-01
12	14.0239E-01	13.6056E-01	13.5548E-01	15.4499E-01	15.1541E-01	15.0853E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1023E-01	10.1902E-01	10.1889E-01	10.2464E-01	10.2749E-01	10.2801E-01
4	10.8020E-01	10.7740E-01	10.7539E-01	11.2099E-01	11.2989E-01	11.1967E-01
6	11.6219E-01	11.7350E-01	11.6979E-01	12.8690E-01	12.8154E-01	12.7951E-01
8	13.2335E-01	13.0875E-01	13.0423E-01	15.2678E-01	15.1715E-01	15.1502E-01
10	15.0579E-01	14.8622E-01	14.8168E-01	18.3139E-01	18.3693E-01	18.3715E-01
12	17.3391E-01	17.1022E-01	17.0615E-01	22.7666E-01	22.6269E-01	22.6138E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	18.1584E+04	32.7777E+04	44.8585E+04	17.8850E+04	31.8455E+04	43.0132E+04
4	16.2313E+04	27.2978E+04	35.3974E+04	15.7439E+04	25.8025E+04	32.6539E+04
6	14.6193E+04	23.3326E+04	29.1074E+04	13.9605E+04	21.4492E+04	25.9439E+04
8	13.2526E+04	20.3084E+04	24.7066E+04	12.4542E+04	18.1989E+04	21.2354E+04
10	12.0008E+04	17.9135E+04	21.3344E+04	11.1677E+04	15.6424E+04	17.7561E+04
12	11.0664E+04	15.9696E+04	18.6873E+04	10.0584E+04	13.5910E+04	15.0895E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	17.5753E+04	30.7302E+04	40.8057E+04	17.2392E+04	29.9517E+04	38.5034E+04
4	15.2643E+04	24.0232E+04	29.4981E+04	14.5349E+04	22.2102E+04	28.4722E+04
6	17.1629E+04	19.3140E+04	22.4589E+04	12.3125E+04	17.3328E+04	19.3634E+04
8	11.4857E+04	15.8494E+04	17.7172E+04	10.4774E+04	13.8927E+04	14.7890E+04
10	10.2676E+04	13.2123E+04	14.3561E+04	89.5178E+03	11.0624E+04	11.6586E+04
12	88.5890E+03	11.1521E+04	11.8313E+04	76.7525E+03	91.0193E+03	94.0884E+03

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	16.8843E+04	28.3403E+04	36.2136E+04	16.1399E+04	25.9562E+04	32.0002E+04
4	13.8830E+04	20.4683E+04	23.7187E+04	12.5742E+04	17.3337E+04	19.2148E+04
6	11.4544E+04	15.3397E+04	16.7558E+04	98.1427E+03	12.1807E+04	12.7849E+04
8	94.9173E+03	11.8222E+04	12.4520E+04	76.8994E+03	88.8085E+03	90.8089E+03
10	78.9335E+03	93.0941E+03	95.9458E+03	63.4403E+03	66.9019E+03	67.1725E+03
12	65.8535E+03	74.5397E+03	75.8477E+03	47.6399E+03	50.7500E+03	50.9774E+03

CUBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 20 IN. X 120 IN.

AIR GAP = 6.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.6981E-01	10.0873E-01	10.0794E-01	10.1085E-01	10.0984E-01	10.0914E-01
4	10.3451E-01	10.2907E-01	10.2572E-01	10.3916E-01	10.3411E-01	10.3105E-01
6	10.8968E-01	10.5710E-01	10.5016E-01	10.8081E-01	10.6971E-01	10.6311E-01
8	11.1281E-01	10.9117E-01	10.8621E-01	11.3353E-01	11.1371E-01	11.0474E-01
10	11.8235E-01	11.3043E-01	11.1535E-01	11.9604E-01	11.6772E-01	11.5578E-01
12	12.1727E-01	11.7438E-01	11.5525E-01	12.6762E-01	12.3049E-01	12.1624E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1129E-01	10.1181E-01	10.1061E-01	10.1177E-01	10.1258E-01	10.1261E-01
4	10.8467E-01	10.4135E-01	10.3407E-01	10.5281E-01	10.5818E-01	10.5018E-01
6	10.9717E-01	10.8834E-01	10.8370E-01	11.2128E-01	11.1541E-01	11.1217E-01
8	11.6681E-01	11.5129E-01	11.4457E-01	12.1558E-01	12.0411E-01	11.9950E-01
10	12.5273E-01	12.3928E-01	12.2201E-01	13.3572E-01	13.1875E-01	13.1545E-01
12	13.5681E-01	13.2572E-01	13.1457E-01	14.8278E-01	14.6097E-01	14.5957E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1246E-01	10.1474E-01	10.1527E-01	10.1450E-01	10.2193E-01	10.2274E-01
4	10.6431E-01	10.6320E-01	10.6454E-01	10.9849E-01	11.0297E-01	11.0344E-01
6	11.9402E-01	11.9082E-01	11.4871E-01	12.4698E-01	12.4793E-01	12.4731E-01
8	12.8098E-01	12.7301E-01	12.7022E-01	14.6543E-01	14.6264E-01	14.6177E-01
10	14.6690E-01	14.3456E-01	14.0134E-01	17.6387E-01	17.5914E-01	17.5709E-01
12	16.9521E-01	16.3939E-01	16.3637E-01	21.5600E-01	21.4034E-01	21.4749E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2.46 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	16.3316E+04	29.6607E+04	40.7895E+04	16.1213E+04	28.9833E+04	39.2468E+04
4	14.7606E+04	24.7443E+04	32.3378E+04	14.3169E+04	23.8715E+04	30.1317E+04
6	13.3291E+04	21.4749E+04	27.0032E+04	12.7646E+04	19.8530E+04	24.1892E+04
8	12.1495E+04	18.7973E+04	22.9969E+04	11.4734E+04	16.9169E+04	19.8324E+04
10	11.1289E+04	16.6592E+04	19.9413E+04	10.3415E+04	14.6469E+04	16.6427E+04
12	10.2383E+04	14.9078E+04	17.5274E+04	9.5695E+04	12.7482E+04	14.1910E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	15.8766E+04	27.9784E+04	37.3429E+04	15.6057E+04	26.9457E+04	35.3233E+04
4	13.8342E+04	22.1122E+04	27.2970E+04	13.1912E+04	20.4993E+04	24.5483E+04
6	12.1019E+04	17.9108E+04	20.9205E+04	11.3671E+04	16.0228E+04	18.0689E+04
8	10.6249E+04	14.7795E+04	16.3793E+04	97.2982E+03	12.7985E+04	13.8582E+04
10	93.6445E+03	12.3741E+04	13.4722E+04	83.5753E+03	10.4828E+04	10.9612E+04
12	82.7799E+03	10.4825E+04	11.1620E+04	71.9806E+03	89.7293E+03	88.7102E+03

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	15.3152E+04	25.9102E+04	33.3107E+04	14.6952E+04	23.8299E+04	29.5202E+04
4	12.7487E+04	18.7933E+04	22.8908E+04	11.5979E+04	16.1810E+04	17.8781E+04
6	10.6890E+04	14.6234E+04	19.6599E+04	91.2481E+03	11.7992E+04	11.9748E+04
8	98.4263E+03	11.0718E+04	11.8811E+04	72.8295E+03	89.4418E+03	59.4910E+03
10	73.2493E+03	87.3999E+03	99.3104E+03	54.9021E+03	62.7485E+03	65.4815E+03
12	61.9458E+03	70.3319E+03	71.4865E+03	45.8387E+03	48.8487E+03	48.2789E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 20 IN. X 120 IN.

AIR GAP = 7.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0851E-01	10.0743E-01	10.0690E-01	10.0897E-01	10.0832E-01	10.0780E-01
4	10.3023E-01	10.2547E-01	10.2200E-01	10.3319E-01	10.2945E-01	10.2704E-01
6	10.6144E-01	10.5070E-01	10.4444E-01	10.6961E-01	10.6053E-01	10.5530E-01
8	11.0001E-01	10.8124E-01	10.7160E-01	11.1632E-01	11.0047E-01	10.9278E-01
10	11.4447E-01	11.1459E-01	11.0317E-01	11.7222E-01	11.4804E-01	11.3749E-01
12	11.9394E-01	11.5822E-01	11.3912E-01	12.3659E-01	12.0447E-01	11.9325E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0873E-01	10.0094E-01	10.0082E-01	10.0041E-01	10.0090E-01	10.1033E-01
4	10.3640E-01	10.3519E-01	10.3372E-01	10.4251E-01	10.4367E-01	10.4323E-01
6	10.8236E-01	10.7879E-01	10.7342E-01	11.0242E-01	11.0051E-01	10.9841E-01
8	11.4422E-01	11.3326E-01	11.2007E-01	11.8091E-01	11.8063E-01	11.7749E-01
10	12.2144E-01	12.0447E-01	11.9009E-01	12.9589E-01	12.8500E-01	12.8114E-01
12	13.1393E-01	12.9140E-01	12.8394E-01	14.3029E-01	14.1515E-01	14.1104E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0840E-01	10.1142E-01	10.1242E-01	10.1019E-01	10.1647E-01	10.1857E-01
4	10.5151E-01	10.5529E-01	10.5574E-01	10.8023E-01	10.8853E-01	10.9024E-01
6	11.3078E-01	11.3210E-01	11.3135E-01	12.1390E-01	12.2015E-01	12.2894E-01
8	12.4540E-01	12.4320E-01	12.4155E-01	14.1457E-01	14.1755E-01	14.1741E-01
10	13.9737E-01	13.9121E-01	13.9013E-01	16.9036E-01	16.9041E-01	16.8998E-01
12	15.8910E-01	15.7960E-01	15.7759E-01	20.5436E-01	20.5211E-01	20.5164E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/50.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	14.7837E+04	26.9957E+04	37.2849E+04	14.6192E+04	26.3755E+04	36.9829E+04
4	13.3983E+04	22.9033E+04	30.8305E+04	13.0004E+04	21.0009E+04	27.9110E+04
6	12.2121E+04	19.8445E+04	25.0963E+04	11.7562E+04	18.4077E+04	22.6785E+04
8	11.1041E+04	17.4614E+04	21.4760E+04	10.6084E+04	15.7749E+04	18.5765E+04
10	10.2912E+04	15.5810E+04	18.6944E+04	9.6973E+03	12.6782E+04	15.6478E+04
12	95.8465E+03	13.9571E+04	16.4837E+04	87.2647E+03	11.9719E+04	13.5780E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	14.4229E+04	25.9906E+04	34.3256E+04	14.2014E+04	24.7179E+04	32.6904E+04
4	12.6772E+04	20.4317E+04	25.3499E+04	12.2213E+04	18.9667E+04	22.8992E+04
6	11.1677E+04	16.6534E+04	19.5471E+04	10.3159E+04	14.9404E+04	18.9888E+04
8	99.6301E+03	13.8208E+04	15.5565E+04	90.6111E+03	11.9936E+04	13.8100E+04
10	87.3497E+03	11.6185E+04	12.4824E+04	78.2205E+03	97.8507E+03	10.3200E+04
12	77.5445E+03	90.7502E+03	10.5163E+04	67.6545E+03	80.9515E+03	81.8272E+03

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	13.9605E+04	23.0010E+04	30.7412E+04	13.4170E+04	21.0571E+04	27.3220E+04
4	11.7331E+04	17.5734E+04	20.5430E+04	10.7290E+04	14.9400E+04	18.7122E+04
6	98.4247E+03	13.3522E+04	14.6427E+04	85.1200E+03	10.6739E+04	11.2734E+04
8	88.5041E+03	10.7922E+04	10.9031E+04	67.5904E+03	78.5700E+03	80.0543E+03
10	69.3039E+03	82.4010E+03	85.1017E+03	53.6840E+03	59.3977E+03	59.9330E+03
12	58.3033E+03	66.4044E+03	67.7207E+03	42.6304E+03	49.9539E+03	49.7709E+03

COSALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 20 IN. X240 IN. AIR GAP = 0.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	97.6207E-02	10.0559E-01	10.0716E-01	10.1547E-01	10.1779E-01	10.1670E-01
4	10.5201E-01	10.4018E-01	10.4326E-01	10.2712E-01	10.2919E-01	10.2719E-01
6	11.3034E-01	11.0701E-01	10.9401E-01	11.0711E-01	11.5934E-01	11.3009E-01
8	12.2197E-01	11.7010E-01	11.5033E-01	11.0203E-01	12.4033E-01	12.2023E-01
10	13.2311E-01	12.5001E-01	12.2671E-01	14.3222E-01	13.5003E-01	13.3000E-01
12	14.3290E-01	13.4206E-01	13.0043E-01	15.7704E-01	16.0410E-01	16.5192E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3407E-01	10.3099E-01	10.2791E-01	10.5524E-01	10.4537E-01	10.4044E-01
4	11.2000E-01	11.0700E-01	10.9679E-01	11.7041E-01	11.4500E-01	11.3200E-01
6	12.5420E-01	12.1172E-01	11.9516E-01	13.3307E-01	12.8300E-01	12.6000E-01
8	14.0234E-01	13.4214E-01	13.2130E-01	15.2044E-01	14.6100E-01	14.4200E-01
10	15.7500E-01	14.9002E-01	14.7500E-01	17.5000E-01	16.8333E-01	16.6300E-01
12	17.7441E-01	16.0370E-01	16.5966E-01	20.3200E-01	19.4700E-01	19.3000E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.7000E-01	10.6163E-01	10.5663E-01	11.2001E-01	10.9099E-01	10.8000E-01
4	12.2000E-01	11.9001E-01	11.7500E-01	13.4000E-01	12.8700E-01	12.8000E-01
6	14.2000E-01	13.7000E-01	13.5000E-01	16.0000E-01	15.0000E-01	15.0000E-01
8	16.4000E-01	14.0000E-01	13.9000E-01	18.0000E-01	16.0000E-01	16.0000E-01
10	18.8000E-01	17.1000E-01	16.9000E-01	20.0000E-01	18.0000E-01	18.0000E-01
12	21.0000E-01	22.0000E-01	22.0000E-01	22.0000E-01	22.0000E-01	22.0000E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/50.CC. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	39.0000E+00	60.6100E+00	60.3200E+00	32.0000E+00	40.7000E+00	74.1000E+00
4	29.7000E+00	47.1000E+00	50.2300E+00	27.0000E+00	32.0000E+00	52.0000E+00
6	25.5000E+00	38.0000E+00	46.7000E+00	23.0000E+00	28.0000E+00	39.0000E+00
8	22.0000E+00	32.0000E+00	36.0000E+00	20.0000E+00	24.0000E+00	31.0000E+00
10	19.0000E+00	27.0000E+00	32.0000E+00	17.0000E+00	21.0000E+00	28.0000E+00
12	17.0000E+00	24.0000E+00	28.0000E+00	15.0000E+00	19.0000E+00	25.0000E+00

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	31.0000E+00	52.0000E+00	60.1000E+00	20.0000E+00	40.0000E+00	62.0000E+00
4	25.0000E+00	40.0000E+00	45.0000E+00	17.0000E+00	30.0000E+00	40.0000E+00
6	21.0000E+00	30.0000E+00	35.0000E+00	15.0000E+00	25.0000E+00	35.0000E+00
8	17.0000E+00	25.0000E+00	28.0000E+00	13.0000E+00	20.0000E+00	28.0000E+00
10	15.0000E+00	20.0000E+00	25.0000E+00	12.0000E+00	18.0000E+00	25.0000E+00
12	13.0000E+00	18.0000E+00	20.0000E+00	10.0000E+00	15.0000E+00	20.0000E+00

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	20.0000E+00	40.1000E+00	57.1000E+00	10.0000E+00	20.0000E+00	40.0000E+00
4	17.0000E+00	35.0000E+00	50.0000E+00	9.0000E+00	17.0000E+00	35.0000E+00
6	15.0000E+00	30.0000E+00	45.0000E+00	8.0000E+00	15.0000E+00	30.0000E+00
8	13.0000E+00	25.0000E+00	40.0000E+00	7.0000E+00	13.0000E+00	25.0000E+00
10	11.0000E+00	20.0000E+00	35.0000E+00	6.0000E+00	11.0000E+00	20.0000E+00
12	9.0000E+00	18.0000E+00	30.0000E+00	5.0000E+00	9.0000E+00	18.0000E+00

RECTANGULAR SLAB SOURCE = 20 IN. X 240 IN. AIR GAP = 1.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2190E-01	10.4950E-01	10.1726E-01	10.2410E-01	10.2797E-01	10.2197E-01
4	10.7737E-01	10.4167E-01	10.9346E-01	11.0449E-01	10.8279E-01	10.7254E-01
6	11.6814E-01	11.1667E-01	11.0999E-01	11.9471E-01	11.9529E-01	11.3041E-01
8	12.3197E-01	11.8064E-01	11.5774E-01	12.9404E-01	12.4250E-01	12.1408E-01
10	13.7227E-01	12.6213E-01	12.8101E-01	14.3899E-01	13.4092E-01	12.1874E-01
12	14.2232E-01	13.3624E-01	13.9193E-01	15.9194E-01	14.5959E-01	14.2779E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.4599E-01	10.3046E-01	10.2179E-01	10.5072E-01	10.4691E-01	10.4082E-01
4	11.2400E-01	11.0012E-01	10.9070E-01	11.0407E-01	11.0033E-01	10.9052E-01
6	12.0004E-01	11.8006E-01	11.6019E-01	11.8103E-01	11.8706E-01	12.0187E-01
8	12.9193E-01	12.7504E-01	12.6506E-01	12.9374E-01	12.9731E-01	13.0406E-01
10	13.4494E-01	13.7156E-01	13.4900E-01	13.9734E-01	13.9736E-01	13.9974E-01
12	13.9932E-01	14.4305E-01	14.1979E-01	14.6533E-01	14.6724E-01	14.6724E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.7271E-01	10.5700E-01	10.5124E-01	11.0450E-01	10.8470E-01	10.7001E-01
4	12.0998E-01	11.7027E-01	11.6214E-01	12.0504E-01	12.0404E-01	12.0221E-01
6	13.9302E-01	13.0237E-01	13.2745E-01	13.9979E-01	13.9466E-01	13.9404E-01
8	14.7541E-01	13.9797E-01	13.9944E-01	14.7111E-01	14.7224E-01	14.7302E-01
10	15.7303E-01	14.9510E-01	14.7294E-01	15.6999E-01	15.6994E-01	15.6919E-01
12	16.6491E-01	15.9304E-01	15.6946E-01	16.7327E-01	16.7493E-01	16.7274E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/50 CM. ) FOR 2.4.6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	20.2297E+00	20.8125E+00	20.5824E+00	20.1004E+00	20.0617E+00	20.0003E+00
4	25.4201E+00	21.0924E+00	21.0954E+00	24.4444E+00	24.1744E+00	24.3094E+00
6	22.5047E+00	24.6375E+00	24.3971E+00	20.6790E+00	20.7020E+00	20.5011E+00
8	19.9720E+00	20.6911E+00	20.2100E+00	18.9712E+00	19.3977E+00	19.0700E+00
10	17.7599E+00	20.9166E+00	20.0912E+00	18.0004E+00	21.1746E+00	21.0007E+00
12	15.0746E+00	22.0231E+00	20.0111E+00	17.9391E+00	20.2767E+00	20.0716E+00

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	20.1931E+00	47.7174E+00	41.1020E+00	27.1340E+00	44.0510E+00	50.7190E+00
4	22.0710E+00	34.0190E+00	41.0070E+00	21.0792E+00	31.0792E+00	30.0905E+00
6	19.1048E+00	27.0702E+00	30.0793E+00	17.0103E+00	23.0750E+00	20.2750E+00
8	16.2170E+00	21.0304E+00	23.0731E+00	14.0029E+00	18.0900E+00	18.0000E+00
10	13.0952E+00	17.0304E+00	18.0029E+00	12.0042E+00	14.0000E+00	13.0000E+00
12	11.0941E+00	14.0710E+00	15.0000E+00	10.0000E+00	11.0119E+00	10.0000E+00

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	24.1900E+00	42.1000E+00	52.5700E+00	20.2210E+00	37.4000E+00	49.1320E+00
4	20.1532E+00	20.7014E+00	32.7305E+00	17.5097E+00	23.5042E+00	25.0000E+00
6	15.9079E+00	20.7000E+00	27.6733E+00	13.1770E+00	16.0790E+00	16.0790E+00
8	12.0422E+00	15.0000E+00	14.0000E+00	10.0000E+00	11.0000E+00	11.0000E+00
10	10.0000E+00	12.1134E+00	12.0000E+00	7.7177E+00	10.0000E+00	10.0000E+00
12	09.0000E+00	09.5700E+00	07.0000E+00	09.0000E+00	09.5700E+00	09.5700E+00

COMPLY OR SOURCE

RECTANGULAR SLAB SOURCE = 20 IN. X 40 IN. AIR GAP = 2.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1992E-01	10.1674E-01	10.1474E-01	10.2693E-01	10.7212E-01	10.1942E-01
4	10.6504E-01	10.5202E-01	10.4500E-01	10.8641E-01	10.6791E-01	10.5987E-01
6	11.2665E-01	10.9292E-01	10.8104E-01	11.6007E-01	11.2829E-01	11.1535E-01
8	11.9517E-01	11.5292E-01	11.3762E-01	12.1672E-01	12.0610E-01	11.9580E-01
10	12.7352E-01	12.1397E-01	12.0682E-01	13.3330E-01	12.9200E-01	12.8892E-01
12	13.5044E-01	12.8641E-01	12.6596E-01	14.6850E-01	13.9157E-01	13.6644E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3439E-01	10.2015E-01	10.2491E-01	10.4239E-01	10.3500E-01	10.3025E-01
4	11.0647E-01	10.6748E-01	10.7692E-01	11.3250E-01	11.1123E-01	11.0352E-01
6	12.0320E-01	11.6090E-01	11.5669E-01	12.5622E-01	12.2124E-01	12.0822E-01
8	13.2157E-01	12.7048E-01	12.5792E-01	14.3165E-01	13.8500E-01	13.5930E-01
10	14.6114E-01	14.0282E-01	13.8257E-01	16.0117E-01	15.6471E-01	15.2052E-01
12	16.2254E-01	15.6133E-01	15.3192E-01	18.2705E-01	17.6314E-01	17.0782E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.5159E-01	10.4303E-01	10.3695E-01	10.7260E-01	10.6734E-01	10.5762E-01
4	11.6333E-01	11.3964E-01	11.3102E-01	12.3013E-01	12.1211E-01	12.0360E-01
6	13.1097E-01	12.7927E-01	12.7200E-01	14.0379E-01	14.0479E-01	14.0022E-01
8	15.2316E-01	14.7750E-01	14.6627E-01	16.1017E-01	16.1602E-01	16.0932E-01
10	17.7257E-01	17.2592E-01	17.1514E-01	22.6011E-01	22.1400E-01	22.1102E-01
12	20.6997E-01	20.3380E-01	20.2523E-01	26.3270E-01	27.0970E-01	27.0764E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/50.CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	26.2301E+04	44.4371E+04	62.9731E+04	25.9523E+04	44.1200E+04	59.7701E+04
4	22.6437E+04	37.6402E+04	47.8235E+04	21.7372E+04	36.5972E+04	42.9225E+04
6	20.1571E+04	31.3404E+04	40.4090E+04	18.7765E+04	28.0262E+04	33.3312E+04
8	17.9277E+04	26.6027E+04	32.4162E+04	16.4003E+04	23.3112E+04	26.6040E+04
10	16.1359E+04	21.4722E+04	27.7042E+04	14.6492E+04	19.7490E+04	22.1040E+04
12	14.6043E+04	18.7425E+04	24.2192E+04	12.8704E+04	16.9290E+04	18.6701E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	21.8144E+04	42.1030E+04	54.9080E+04	24.8744E+04	49.8660E+04	51.2354E+04
4	20.5480E+04	31.6427E+04	38.1000E+04	19.6620E+04	38.0012E+04	33.9070E+04
6	17.3404E+04	24.702E+04	29.6112E+04	16.9900E+04	28.0012E+04	24.2760E+04
8	14.8212E+04	19.9320E+04	22.6040E+04	13.9970E+04	17.8412E+04	16.2672E+04
10	12.7370E+04	16.3004E+04	17.6940E+04	11.2690E+04	15.9900E+04	14.2340E+04
12	11.0790E+04	13.6470E+04	14.6400E+04	9.6320E+04	11.8412E+04	11.3757E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	28.3172E+04	50.0100E+04	67.7360E+04	21.8090E+04	34.1630E+04	41.4410E+04
4	26.3004E+04	36.2371E+04	46.1400E+04	18.2144E+04	27.8700E+04	28.0300E+04
6	24.6792E+04	28.7400E+04	36.6460E+04	15.2720E+04	19.0000E+04	18.6072E+04
8	21.8950E+04	24.0707E+04	28.2700E+04	14.1074E+04	16.7030E+04	16.7030E+04
10	19.2194E+04	21.8254E+04	21.6720E+04	12.7700E+04	14.9700E+04	14.9700E+04
12	17.0604E+04	19.6700E+04	19.0190E+04	10.6124E+04	12.8970E+04	12.8970E+04

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 20 IN. X240 IN. AIR GAP = 3.0 IN. R = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1604E-01	10.1368E-01	10.1214E-01	10.2079E-01	10.1757E-01	10.1564E-01
4	10.2244E-01	10.4336E-01	10.3769E-01	10.6001E-01	10.5582E-01	10.4948E-01
6	11.0413E-01	10.8267E-01	10.7131E-01	11.3229E-01	11.2822E-01	11.2479E-01
8	11.6437E-01	11.2921E-01	11.1237E-01	12.0921E-01	12.0218E-01	11.9699E-01
10	12.3204E-01	11.8113E-01	11.5817E-01	12.9953E-01	12.8887E-01	12.7901E-01
12	13.0578E-01	12.1965E-01	12.1059E-01	13.8824E-01	13.7619E-01	13.6527E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2573E-01	10.2192E-01	10.1978E-01	10.2119E-01	10.2704E-01	10.2472E-01
4	10.8490E-01	10.7140E-01	10.6704E-01	11.0512E-01	10.9809E-01	10.9257E-01
6	11.6731E-01	11.4299E-01	11.3190E-01	12.1111E-01	11.9599E-01	11.7649E-01
8	12.7011E-01	12.3394E-01	12.1964E-01	13.4743E-01	13.1706E-01	12.9106E-01
10	13.9247E-01	13.4474E-01	13.2928E-01	15.1490E-01	14.7104E-01	14.5048E-01
12	15.3508E-01	14.7717E-01	14.6079E-01	17.1579E-01	16.6529E-01	16.5462E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3737E-01	10.3299E-01	10.3054E-01	10.5239E-01	10.4774E-01	10.4522E-01
4	11.2912E-01	11.1437E-01	11.0827E-01	11.8918E-01	11.7651E-01	11.6607E-01
6	12.4557E-01	12.3392E-01	12.3124E-01	14.6739E-01	14.4979E-01	14.3739E-01
8	14.0732E-01	14.1029E-01	14.0161E-01	17.0531E-01	16.7200E-01	16.6725E-01
10	16.7825E-01	16.3067E-01	16.2266E-01	20.9734E-01	20.6610E-01	20.6277E-01
12	19.4968E-01	18.9619E-01	18.9430E-01	26.1222E-01	25.8117E-01	25.7862E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/50 CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES.

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	23.1154E+04	41.2771E+04	50.0203E+04	22.5647E+04	19.5813E+04	17.0550E+04
4	20.5709E+04	33.8009E+04	43.4425E+04	19.4761E+04	17.5210E+04	16.1847E+04
6	18.1013E+04	26.5981E+04	35.5344E+04	16.9945E+04	15.6841E+04	14.7024E+04
8	16.2942E+04	24.7161E+04	30.8810E+04	14.9842E+04	14.1501E+04	13.6908E+04
10	14.7422E+04	21.7079E+04	25.8652E+04	13.2739E+04	12.3802E+04	12.0791E+04
12	13.4244E+04	19.2958E+04	22.0509E+04	11.8452E+04	10.8879E+04	10.6194E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	22.8226E+04	17.8727E+04	14.6060E+04	21.4588E+04	16.8706E+04	14.4370E+04
4	18.5941E+04	14.8824E+04	11.7049E+04	17.6821E+04	13.7900E+04	11.1495E+04
6	15.9845E+04	12.7762E+04	10.2308E+04	15.5301E+04	12.1647E+04	10.2494E+04
8	13.9948E+04	10.6404E+04	8.6493E+04	12.3874E+04	10.1706E+04	8.6903E+04
10	12.2780E+04	9.2461E+04	7.6402E+04	10.2097E+04	8.2452E+04	7.1807E+04
12	10.2809E+04	7.7404E+04	6.5711E+04	8.7580E+04	6.9590E+04	6.0437E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	20.8759E+04	14.3675E+04	11.6244E+04	19.7297E+04	14.1210E+04	11.6552E+04
4	16.6748E+04	11.1808E+04	8.7702E+04	14.8098E+04	10.2348E+04	8.2264E+04
6	13.4421E+04	8.7164E+04	6.7548E+04	11.7878E+04	8.7579E+04	6.9495E+04
8	11.0136E+04	6.9593E+04	5.4791E+04	9.7091E+04	6.9942E+04	5.6307E+04
10	9.0520E+04	5.8564E+04	4.6004E+04	8.4127E+04	6.0979E+04	5.0571E+04
12	7.4044E+04	4.8218E+04	3.8190E+04	7.4439E+04	5.4790E+04	4.5720E+04



COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE - 20 IN. X 240 IN. AIR GAP = 4.0 IN. H = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1314E-01	10.1139E-01	10.1020E-01	10.1052E-01	10.1022E-01	10.1293E-01
4	10.4472E-01	10.3672E-01	10.3205E-01	10.5009E-01	10.4684E-01	10.4107E-01
6	10.8029E-01	10.7004E-01	10.6131E-01	11.1113E-01	10.9210E-01	10.8299E-01
8	11.0040E-01	11.1111E-01	10.9055E-01	11.7000E-01	11.4000E-01	11.3210E-01
10	11.0649E-01	11.4649E-01	11.3702E-01	12.5702E-01	12.1500E-01	11.9000E-01
12	12.6432E-01	12.0742E-01	11.8222E-01	13.4632E-01	12.7069E-01	12.7272E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1901E-01	10.1762E-01	10.1616E-01	10.2370E-01	10.2156E-01	10.2319E-01
4	10.6929E-01	10.5979E-01	10.5498E-01	10.8946E-01	10.8012E-01	10.7122E-01
6	11.6039E-01	11.2154E-01	11.1324E-01	11.7762E-01	11.5940E-01	11.5222E-01
8	12.3073E-01	12.0109E-01	11.9001E-01	12.9041E-01	12.7170E-01	12.6294E-01
10	12.3942E-01	12.0000E-01	12.0790E-01	14.4037E-01	14.1013E-01	14.0000E-01
12	14.6635E-01	14.1911E-01	14.0920E-01	16.2976E-01	15.8000E-01	15.7900E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2025E-01	10.2624E-01	10.2420E-01	10.3942E-01	10.3990E-01	10.5095E-01
4	11.0516E-01	10.9610E-01	10.9195E-01	11.5074E-01	11.4700E-01	11.4456E-01
6	12.2371E-01	12.0054E-01	12.0050E-01	13.4326E-01	13.3000E-01	13.2032E-01
8	13.0350E-01	12.9030E-01	12.8262E-01	14.1344E-01	13.9397E-01	13.9034E-01
10	13.0745E-01	13.1700E-01	13.1590E-01	14.7200E-01	14.5107E-01	14.4032E-01
12	18.4072E-01	18.0707E-01	18.0152E-01	20.4209E-01	20.1900E-01	20.1752E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/50 CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	20.3403E+04	37.0364E+04	50.5037E+04	20.1571E+04	35.0326E+04	47.0027E+04
4	10.1200E+04	20.7200E+04	29.0194E+04	17.5792E+04	20.5090E+04	28.0004E+04
6	10.4482E+04	20.2751E+04	32.0474E+04	15.4750E+04	23.6125E+04	28.4293E+04
8	14.0709E+04	22.0325E+04	27.9726E+04	13.7261E+04	19.9230E+04	23.1726E+04
10	13.5421E+04	20.1099E+04	24.1029E+04	12.2501E+04	17.0650E+04	19.7500E+04
12	12.4000E+04	10.0157E+04	21.2676E+04	10.9000E+04	14.7025E+04	16.4020E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	19.7046E+04	34.1593E+04	45.0050E+04	19.2041E+04	32.0000E+04	42.3024E+04
4	10.7971E+04	20.3510E+04	32.1700E+04	10.8030E+04	24.2221E+04	28.7249E+04
6	10.4090E+04	21.0132E+04	29.3294E+04	10.4354E+04	18.4370E+04	20.0607E+04
8	12.5194E+04	17.1032E+04	19.0130E+04	11.3000E+04	14.7221E+04	15.0637E+04
10	10.0105E+04	14.2070E+04	15.0140E+04	9.2302E+04	11.0010E+04	12.4000E+04
12	9.5472E+04	11.0011E+04	12.4070E+04	02.1917E+04	07.0000E+04	10.5220E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.7765E+04	11.2062E+04	39.0590E+04	17.0364E+04	20.4000E+04	34.0371E+04
4	15.2124E+04	22.7327E+04	25.0734E+04	13.6700E+04	10.7230E+04	20.0000E+04
6	12.4297E+04	10.5270E+04	10.0000E+04	10.7221E+04	11.0533E+04	13.6022E+04
8	10.2236E+04	12.6040E+04	13.1700E+04	02.7300E+04	04.0540E+04	06.7000E+04
10	04.9342E+04	09.2000E+04	10.2200E+04	04.0700E+04	10.5700E+04	11.2170E+04
12	09.1963E+04	09.2110E+04	00.9542E+04	00.4542E+04	10.6700E+04	03.9033E+04

COALTY 40 SOURCE

RECTANGULAR SLAB SOURCE = 20 IN. X240 IN. AIR GAP = 5.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1102E-01	10.0964E-01	10.0871E-01	10.1344E-01	10.1192E-01	10.1087E-01
4	10.2010E-01	10.3162E-01	10.2770E-01	10.4494E-01	10.3992E-01	10.3592E-01
6	10.7602E-01	10.6132E-01	10.5327E-01	10.9494E-01	10.7990E-01	10.7204E-01
8	11.2191E-01	10.9603E-01	10.8610E-01	11.9442E-01	11.8050E-01	11.6702E-01
10	11.7401E-01	11.3722E-01	11.1970E-01	12.2422E-01	11.9904E-01	11.7492E-01
12	12.3110E-01	11.8104E-01	11.5964E-01	13.0345E-01	12.5704E-01	12.4461E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	19.1505E-01	19.1467E-01	19.1350E-01	19.1898E-01	19.1757E-01	19.1677E-01
4	19.3794E-01	19.3990E-01	19.4723E-01	19.7007E-01	19.6497E-01	19.6177E-01
6	19.1942E-01	19.0930E-01	19.9079E-01	19.3191E-01	19.3900E-01	19.3260E-01
8	19.0979E-01	18.7704E-01	18.6799E-01	18.6021E-01	18.6000E-01	18.3307E-01
10	12.0700E-01	12.4594E-01	12.5314E-01	13.9322E-01	13.6894E-01	13.6146E-01
12	14.1137E-01	13.7260E-01	13.6000E-01	15.5900E-01	15.2704E-01	15.2047E-01

TARGET THICKNESS INCHES	.9 G/CC			1.2 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	19.2104E-01	19.2130E-01	19.2074E-01	19.3043E-01	19.3123E-01	19.3104E-01
4	19.0744E-01	19.0443E-01	19.7972E-01	19.3124E-01	19.2915E-01	19.2940E-01
6	11.9237E-01	11.8124E-01	11.7687E-01	13.0103E-01	12.9294E-01	12.9020E-01
8	13.3644E-01	13.1944E-01	13.1430E-01	15.4932E-01	15.3322E-01	15.3270E-01
10	15.2294E-01	15.0023E-01	14.9320E-01	18.7527E-01	18.6004E-01	18.5044E-01
12	17.5374E-01	17.2004E-01	17.2364E-01	23.0715E-01	22.9131E-01	22.9004E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SG.CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	19.4934E+04	33.9031E+04	46.0000E+04	19.1415E+04	32.3130E+04	43.6401E+04
4	19.3972E+04	29.1012E+04	34.6601E+04	19.0744E+04	26.2105E+04	33.2140E+04
6	19.0094E+04	24.0390E+04	30.4972E+04	16.1723E+04	21.8303E+04	26.4440E+04
8	13.6421E+04	21.1920E+04	26.0610E+04	17.6220E+04	19.5994E+04	21.0901E+04
10	12.3990E+04	19.0101E+04	22.6941E+04	11.2543E+04	15.9600E+04	18.1790E+04
12	11.5030E+04	16.0017E+04	20.0369E+04	12.2361E+04	13.0090E+04	15.4739E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	17.7699E+04	31.0437E+04	41.1003E+04	17.3060E+04	29.7555E+04	39.7306E+04
4	15.3061E+04	24.7322E+04	29.7519E+04	14.6212E+04	22.3213E+04	26.5963E+04
6	13.2737E+04	19.4737E+04	22.6903E+04	12.3695E+04	17.3047E+04	19.4420E+04
8	11.5763E+04	15.0790E+04	17.0706E+04	10.5104E+04	13.7439E+04	14.8490E+04
10	10.1446E+04	13.3212E+04	14.4735E+04	09.0304E+03	11.1212E+04	11.7007E+04
12	09.2644E+03	11.2440E+04	11.9795E+04	77.0014E+03	91.3263E+03	94.4100E+03

TARGET THICKNESS INCHES	.9 G/CC			1.2 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	16.9945E+04	28.0797E+04	36.2437E+04	16.2016E+04	26.0229E+04	32.0715E+04
4	13.9351E+04	20.3294E+04	23.0037E+04	12.9330E+04	17.5822E+04	19.2371E+04
6	11.4032E+04	15.3744E+04	16.7912E+04	90.2344E+03	12.1000E+04	12.7949E+04
8	09.1012E+03	11.0433E+04	12.4740E+04	70.9330E+03	08.4340E+03	90.4717E+03
10	07.0594E+03	03.2370E+03	04.0934E+03	60.4403E+03	64.5277E+03	67.1935E+03
12	05.0432E+03	04.6439E+03	03.9017E+03	47.6319E+03	50.7624E+03	50.9900E+03

RECTANGULAR SLAB SOURCE = 20 IN. X240 IN. AIR GAP = 6.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0939E-01	10.0033E-01	10.0755E-01	10.1115E-01	10.1007E-01	10.0920E-01
4	10.3242E-01	10.2796E-01	10.2423E-01	10.3900E-01	10.3450E-01	10.3120E-01
6	10.6627E-01	10.5970E-01	10.4802E-01	10.8102E-01	10.6981E-01	10.6237E-01
8	11.0403E-01	10.8927E-01	10.7419E-01	11.3460E-01	11.1600E-01	11.0480E-01
10	11.5312E-01	11.2100E-01	11.0500E-01	11.9491E-01	11.6700E-01	11.5480E-01
12	12.0409E-01	11.6070E-01	11.4127E-01	12.6801E-01	12.3927E-01	12.1426E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1276E-01	10.1204E-01	10.1143E-01	10.1447E-01	10.1454E-01	10.1417E-01
4	10.4600E-01	10.4366E-01	10.4112E-01	10.5952E-01	10.5619E-01	10.5403E-01
6	11.0301E-01	10.9219E-01	10.8213E-01	11.3161E-01	11.2279E-01	11.1672E-01
8	11.7463E-01	11.5600E-01	11.4933E-01	12.2046E-01	12.1450E-01	12.0972E-01
10	12.6244E-01	12.3740E-01	12.2637E-01	13.3200E-01	13.2120E-01	13.1600E-01
12	13.6432E-01	13.3439E-01	13.2465E-01	15.0200E-01	14.7777E-01	14.7122E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1707E-01	10.1767E-01	10.1750E-01	10.2374E-01	10.2600E-01	10.2600E-01
4	10.7370E-01	10.7170E-01	10.7014E-01	11.1210E-01	11.1200E-01	11.1200E-01
6	11.6760E-01	11.6106E-01	11.5607E-01	12.6610E-01	12.6300E-01	12.6190E-01
8	12.7082E-01	12.6732E-01	12.6500E-01	14.9000E-01	14.8500E-01	14.8320E-01
10	14.0921E-01	14.0362E-01	14.0000E-01	17.0620E-01	17.0700E-01	17.0610E-01
12	16.0242E-01	16.0342E-01	16.0000E-01	21.0750E-01	21.0700E-01	21.0600E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	16.7400E+04	20.5167E+04	42.1120E+04	16.4682E+04	29.4962E+04	40.0666E+04
4	17.1359E+04	25.0200E+04	35.3371E+04	15.6042E+04	26.1700E+04	29.9082E+04
6	19.7767E+04	22.4116E+04	29.6302E+04	15.0642E+04	20.2070E+04	24.6000E+04
8	12.8078E+04	19.7517E+04	24.4340E+04	15.7145E+04	17.5104E+04	20.3200E+04
10	11.5073E+04	17.6226E+04	21.3075E+04	10.5642E+04	14.9710E+04	17.1200E+04
12	10.7167E+04	15.8734E+04	18.9347E+04	9.6772E+03	13.0034E+04	14.6251E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	16.1359E+04	23.2860E+04	37.0516E+04	5.0101E+04	27.2525E+04	35.6540E+04
4	14.6247E+04	27.2094E+04	27.6299E+04	13.6240E+04	20.4570E+04	24.7241E+04
6	12.2501E+04	16.3202E+04	21.1674E+04	11.4424E+04	16.1242E+04	18.1707E+04
8	10.7474E+04	14.9448E+04	16.7741E+04	97.0073E+03	12.6706E+04	13.9364E+04
10	94.6356E+03	12.5120E+04	13.6316E+04	84.0190E+03	10.4560E+04	11.0191E+04
12	87.6492E+03	10.6602E+04	11.2950E+04	72.3302E+03	86.1902E+03	89.1657E+03

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	15.4750E+04	26.1239E+04	33.6350E+04	16.7950E+04	25.9412E+04	29.6352E+04
4	12.8204E+04	19.0200E+04	22.1400E+04	11.6306E+04	16.1366E+04	17.9334E+04
6	10.3482E+04	14.3042E+04	15.7002E+04	91.4071E+03	11.6040E+04	11.9042E+04
8	88.7120E+03	11.1041E+04	11.7167E+04	72.0070E+03	83.5000E+03	85.4707E+03
10	74.1109E+03	87.7373E+03	90.5360E+03	56.9704E+03	62.7053E+03	63.4392E+03
12	62.0059E+03	70.4066E+03	71.7440E+03	45.0400E+03	62.0712E+03	48.2955E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 20 IN. X240 IN. AIR GAP = 7.6 IN. X = C.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0812E-01	10.0724E-01	10.0661E-01	10.0955E-01	10.0859E-01	10.0300E-01
4	10.2874E-01	10.2425E-01	10.2139E-01	10.3418E-01	10.3004E-01	10.2744E-01
6	10.5022E-01	10.4734E-01	10.4150E-01	10.7111E-01	10.6130E-01	10.5597E-01
8	10.9437E-01	10.7571E-01	10.6594E-01	11.1815E-01	11.0121E-01	10.9303E-01
10	11.3578E-01	11.0790E-01	10.9423E-01	11.7411E-01	11.4930E-01	11.3847E-01
12	11.8152E-01	11.4342E-01	11.2604E-01	12.3830E-01	12.0535E-01	11.9227E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1833E-01	10.1010E-01	10.0976E-01	10.1157E-01	10.1210E-01	10.1207E-01
4	10.4497E-01	10.3911E-01	10.3612E-01	10.5031E-01	10.4903E-01	10.4772E-01
6	10.6935E-01	10.6166E-01	10.7754E-01	11.1437E-01	11.0928E-01	11.0637E-01
8	11.3370E-01	11.4011E-01	11.3405E-01	12.0319E-01	11.9305E-01	11.8892E-01
10	12.3345E-01	12.1354E-01	12.0604E-01	13.1834E-01	13.0130E-01	12.9660E-01
12	13.2811E-01	13.0735E-01	12.9346E-01	14.3510E-01	14.3583E-01	14.3092E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1327E-01	10.1470E-01	10.1503E-01	10.1652E-01	10.2192E-01	10.2299E-01
4	10.4260E-01	10.4298E-01	10.4235E-01	10.9660E-01	11.0053E-01	11.0100E-01
6	11.4737E-01	11.4458E-01	11.4245E-01	12.3771E-01	12.3916E-01	12.3879E-01
8	12.6733E-01	12.6073E-01	12.5812E-01	14.4598E-01	14.4461E-01	14.4383E-01
10	14.2494E-01	14.1444E-01	14.1161E-01	17.3080E-01	17.2707E-01	17.2608E-01
12	16.2292E-01	16.3939E-01	16.6472E-01	21.0594E-01	21.0040E-01	20.9972E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/50 CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	15.2547E+04	27.9401E+04	30.7577E+04	15.0095E+04	27.0752E+04	34.9440E+04
4	13.8820E+04	23.8972E+04	31.5494E+04	13.6244E+04	22.7948E+04	29.8938E+04
6	12.7054E+04	20.8544E+04	24.6163E+04	12.8657E+04	18.5200E+04	23.1504E+04
8	11.6889E+04	18.4781E+04	22.8683E+04	10.8914E+04	16.2373E+04	19.1727E+04
10	10.7976E+04	16.3575E+04	20.1828E+04	98.4886E+03	14.8993E+04	16.1820E+04
12	10.0152E+04	14.9687E+04	17.9618E+04	89.7242E+03	12.3592E+04	13.8611E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	14.7432E+04	26.8975E+04	34.9509E+04	14.4425E+04	25.0887E+04	32.9703E+04
4	12.9160E+04	20.7785E+04	25.7634E+04	12.3444E+04	19.1944E+04	23.0713E+04
6	11.3543E+04	16.9244E+04	19.8517E+04	10.6261E+04	15.0764E+04	17.0522E+04
8	10.8015E+04	14.6278E+04	15.7948E+04	91.4825E+03	12.0895E+04	13.1210E+04
10	98.6141E+03	11.7888E+04	12.0757E+04	78.8143E+03	98.5724E+03	10.4048E+04
12	78.6249E+03	10.0191E+04	10.0971E+04	68.1292E+03	81.4468E+03	84.4090E+03

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	14.1723E+04	24.8790E+04	31.0452E+04	13.3737E+04	22.1167E+04	27.4884E+04
4	11.8457E+04	17.7829E+04	20.6016E+04	10.7791E+04	15.0442E+04	16.7866E+04
6	99.8674E+03	13.4257E+04	14.7391E+04	85.4182E+03	10.6783E+04	11.2488E+04
8	82.7934E+03	10.4391E+04	11.0307E+04	67.6498E+03	78.6863E+03	80.5697E+03
10	69.6619E+03	8.27961E+03	85.4999E+03	51.7162E+03	59.3962E+03	59.9060E+03
12	58.5822E+03	6.67842E+03	67.9530E+03	42.6742E+03	43.5960E+03	43.8876E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 30 IN. X 40 IN. AIR GAP = 0.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	97.9785E-02	99.4447E-02	99.8812E-02	10.0206E-01	10.6927E-01	10.4925E-01
4	10.1096E-01	10.2216E-01	10.2317E-01	10.5217E-01	10.4933E-01	10.4594E-01
6	10.7373E-01	10.7205E-01	10.6769E-01	11.2877E-01	11.1221E-01	11.0355E-01
8	11.5933E-01	11.3696E-01	11.2693E-01	12.2232E-01	11.9224E-01	11.7979E-01
10	12.4567E-01	12.1422E-01	11.9866E-01	13.3091E-01	12.8828E-01	12.7243E-01
12	13.4960E-01	13.0284E-01	12.8200E-01	14.5457E-01	14.0025E-01	13.8186E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2350E-01	10.2231E-01	10.2053E-01	10.4522E-01	10.3743E-01	10.3322E-01
4	10.9611E-01	10.8117E-01	10.7415E-01	11.4492E-01	11.1899E-01	11.0897E-01
6	11.9519E-01	11.6574E-01	11.5466E-01	12.7477E-01	12.3423E-01	12.2128E-01
8	13.1529E-01	12.7371E-01	12.6017E-01	14.3427E-01	13.8318E-01	13.6599E-01
10	14.5843E-01	14.0593E-01	13.9066E-01	16.2564E-01	15.6789E-01	15.5308E-01
12	16.2090E-01	15.6183E-01	15.4702E-01	18.5319E-01	17.9158E-01	17.8018E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.6788E-01	10.5399E-01	10.4768E-01	11.1648E-01	10.9288E-01	10.8198E-01
4	11.9932E-01	11.6341E-01	11.5113E-01	13.2414E-01	12.7483E-01	12.5945E-01
6	13.6880E-01	13.1892E-01	13.0532E-01	16.0498E-01	15.4168E-01	15.2788E-01
8	15.8144E-01	15.2309E-01	15.1024E-01	19.7288E-01	18.8541E-01	18.7698E-01
10	18.4245E-01	17.6874E-01	17.7082E-01	24.4419E-01	23.6218E-01	23.7544E-01
12	21.6042E-01	20.9814E-01	20.8985E-01	30.5221E-01	29.7388E-01	29.8784E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.-CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	34.7147E+04	44.1899E+04	45.1842E+04	34.7089E+04	40.8227E+04	39.8283E+04
4	59.7894E+04	59.7894E+04	62.3724E+04	29.4894E+04	44.1899E+04	50.0894E+04
6	27.3982E+04	48.7532E+04	48.3768E+04	25.2248E+04	36.8747E+04	43.0894E+04
8	23.8787E+04	33.8334E+04	34.9574E+04	21.8117E+04	28.1832E+04	33.9894E+04
10	20.9944E+04	26.6188E+04	27.2288E+04	19.8274E+04	25.1771E+04	27.6132E+04
12	18.5945E+04	24.5434E+04	24.2825E+04	16.7895E+04	21.2948E+04	22.9878E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	32.9538E+04	55.8127E+04	72.4813E+04	31.2283E+04	51.7727E+04	64.1327E+04
4	27.2288E+04	41.6242E+04	49.9798E+04	25.8742E+04	37.1888E+04	43.8432E+04
6	22.8788E+04	24.2414E+04	24.2388E+04	20.9442E+04	26.8788E+04	30.1394E+04
8	19.4982E+04	25.8222E+04	26.3718E+04	17.8842E+04	24.2842E+04	27.3817E+04
10	16.6788E+04	21.1388E+04	22.5417E+04	14.3988E+04	17.4242E+04	19.1788E+04
12	14.4825E+04	17.5218E+04	18.3368E+04	12.1427E+04	14.1327E+04	14.3894E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	29.6188E+04	48.8842E+04	65.2448E+04	26.7243E+04	41.4842E+04	54.1782E+04
4	23.8148E+04	33.1217E+04	37.9732E+04	19.4342E+04	26.3827E+04	29.9894E+04
6	19.3888E+04	24.2414E+04	24.2388E+04	15.4782E+04	18.8827E+04	20.9138E+04
8	16.9274E+04	18.3547E+04	19.2788E+04	11.2838E+04	12.7882E+04	13.2382E+04
10	12.2482E+04	14.2798E+04	14.3388E+04	8.7188E+04	10.2882E+04	9.7388E+04
12	10.1827E+04	11.3288E+04	11.4888E+04	6.8882E+04	7.8842E+04	7.3488E+04

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 30 IN. X 40 IN. AIR GAP = 1.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1463E-01	10.1440E-01	10.1340E-01	10.2758E-01	10.2285E-01	10.2010E-01
4	10.6181E-01	10.5261E-01	10.4723E-01	10.8050E-01	10.7132E-01	10.6348E-01
6	11.2863E-01	11.0664E-01	10.9610E-01	11.6786E-01	11.3721E-01	11.2476E-01
8	12.0090E-01	11.7349E-01	11.5748E-01	12.6211E-01	12.1681E-01	12.0257E-01
10	13.0137E-01	12.5183E-01	12.3084E-01	13.7082E-01	13.1577E-01	12.9656E-01
12	14.0519E-01	13.4169E-01	13.1510E-01	14.9441E-01	14.2836E-01	14.0695E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.4040E-01	10.3198E-01	10.2780E-01	10.5396E-01	10.4230E-01	10.3687E-01
4	11.1872E-01	10.9498E-01	10.8533E-01	11.5396E-01	11.2456E-01	11.1352E-01
6	12.1893E-01	11.8091E-01	11.6753E-01	12.8234E-01	12.3886E-01	12.2516E-01
8	13.3824E-01	12.8929E-01	12.7383E-01	14.3945E-01	13.8619E-01	13.7205E-01
10	14.7889E-01	14.2091E-01	14.0464E-01	16.2837E-01	15.6883E-01	15.5561E-01
12	16.4230E-01	15.7712E-01	15.6099E-01	18.9315E-01	17.8997E-01	17.7834E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.6877E-01	10.5409E-01	10.4755E-01	11.0321E-01	10.8273E-01	10.7424E-01
4	11.9515E-01	11.6064E-01	11.4857E-01	12.9725E-01	12.5387E-01	12.4076E-01
6	13.6056E-01	13.1213E-01	12.9860E-01	15.6440E-01	15.0874E-01	14.9670E-01
8	15.6796E-01	15.1154E-01	14.9904E-01	19.1724E-01	18.5792E-01	18.4899E-01
10	18.2353E-01	17.6360E-01	17.5321E-01	23.7453E-01	23.1701E-01	23.1109E-01
12	21.3506E-01	20.7471E-01	20.6659E-01	29.6034E-01	29.0751E-01	29.0384E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CH.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	30.1322E+04	56.3183E+04	75.0253E+04	31.1686E+04	53.8186E+04	71.0648E+04
4	27.7082E+04	44.3679E+04	55.3580E+04	26.3573E+04	41.5625E+04	51.1463E+04
6	24.0801E+04	36.2083E+04	43.2485E+04	22.8500E+04	33.3519E+04	39.0738E+04
8	21.1428E+04	30.2634E+04	35.0464E+04	19.6837E+04	27.4301E+04	31.0048E+04
10	18.7070E+04	25.7471E+04	29.1493E+04	17.2462E+04	22.7680E+04	25.2788E+04
12	16.6597E+04	22.2088E+04	24.7103E+04	15.2052E+04	19.5003E+04	21.0331E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	30.0526E+04	50.9864E+04	66.3644E+04	28.9162E+04	48.0555E+04	61.4985E+04
4	24.8343E+04	38.1521E+04	45.9379E+04	23.2539E+04	34.6410E+04	40.7222E+04
6	20.9338E+04	29.7588E+04	33.9875E+04	19.1393E+04	26.2247E+04	29.1271E+04
8	17.8644E+04	23.9109E+04	26.2451E+04	15.9691E+04	20.4736E+04	21.8983E+04
10	15.3780E+04	19.5667E+04	20.9014E+04	13.4430E+04	16.3454E+04	17.0585E+04
12	13.3178E+04	16.2568E+04	17.0356E+04	11.3870E+04	13.2757E+04	13.6387E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	27.7820E+04	45.1617E+04	56.7702E+04	25.5770E+04	39.7496E+04	48.2334E+04
4	21.6862E+04	33.2794E+04	35.9174E+04	18.7346E+04	25.3784E+04	27.9694E+04
6	17.3797E+04	22.9210E+04	24.8674E+04	14.1725E+04	17.4395E+04	18.2673E+04
8	14.1373E+04	17.6025E+04	18.3385E+04	10.9080E+04	12.5447E+04	12.8120E+04
10	11.6085E+04	13.5549E+04	13.8197E+04	84.8381E+03	93.1161E+03	94.0801E+03
12	95.9322E+03	10.7629E+04	10.9241E+04	66.4381E+03	70.6496E+03	70.9425E+03

COPALY 60 SOURCE

RECTANGULAR SLAB SOURCE = 30 IN. X 40 IN. AIR GAP = 2.0 IN. K = 0.00 V = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1801E-01	10.551E-01	10.1401E-01	10.2484E-01	10.2030E-01	10.1799E-01
4	10.6132E-01	10.5093E-01	10.4540E-01	10.7749E-01	10.6299E-01	10.5627E-01
6	11.2123E-01	10.997E-01	10.8975E-01	11.4744E-01	11.2153E-01	11.1078E-01
8	11.9362E-01	11.6035E-01	11.4544E-01	12.3155E-01	11.9668E-01	11.8047E-01
10	12.7731E-01	12.3138E-01	12.1166E-01	13.2956E-01	12.8217E-01	12.6514E-01
12	13.7172E-01	13.1248E-01	12.8806E-01	14.4162E-01	13.6419E-01	13.4509E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3132E-01	10.2553E-01	10.2254E-01	10.3821E-01	10.3153E-01	10.2819E-01
4	10.9840E-01	10.7903E-01	10.717E-01	11.1933E-01	10.9993E-01	10.9225E-01
6	11.8288E-01	11.5422E-01	11.4384E-01	12.2983E-01	11.9899E-01	11.8889E-01
8	12.8894E-01	12.5888E-01	12.3801E-01	13.6828E-01	13.2920E-01	13.1838E-01
10	14.1927E-01	13.8875E-01	13.5820E-01	15.3740E-01	14.9281E-01	14.8201E-01
12	15.6304E-01	15.0982E-01	14.9616E-01	17.4021E-01	16.939E-01	16.8203E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.4600E-01	10.3865E-01	10.3496E-01	10.6551E-01	10.5490E-01	10.5267E-01
4	11.4744E-01	11.2625E-01	11.1834E-01	12.2134E-01	11.9675E-01	11.8874E-01
6	12.8911E-01	12.5679E-01	12.4733E-01	14.5029E-01	14.1928E-01	14.0736E-01
8	14.7172E-01	14.324E-01	14.2313E-01	17.6009E-01	17.2078E-01	17.1464E-01
10	16.9990E-01	16.5688E-01	16.4879E-01	21.6618E-01	21.2679E-01	21.2280E-01
12	19.8015E-01	19.3548E-01	19.2923E-01	26.8991E-01	26.3248E-01	26.4981E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	27.9996E+04	49.2776E+04	48.8105E+04	27.3952E+04	47.6889E+04	43.3283E+04
4	24.2766E+04	39.2609E+04	49.2967E+04	23.4206E+04	37.8122E+04	44.8937E+04
6	21.2781E+04	32.3117E+04	38.8249E+04	20.2937E+04	30.131E+04	35.4650E+04
8	18.8093E+04	27.1869E+04	31.4587E+04	17.7452E+04	25.9242E+04	28.281E+04
10	16.7407E+04	23.2561E+04	24.4593E+04	15.6314E+04	20.9649E+04	23.1917E+04
12	14.9843E+04	20.1529E+04	22.5267E+04	13.8408E+04	17.8458E+04	19.3259E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	26.7169E+04	43.7423E+04	59.8619E+04	29.8872E+04	43.6148E+04	56.1217E+04
4	22.3766E+04	34.6543E+04	41.9050E+04	21.2294E+04	31.0542E+04	37.5730E+04
6	19.0254E+04	27.2637E+04	31.1983E+04	17.4294E+04	24.2027E+04	27.8293E+04
8	16.3364E+04	21.9867E+04	24.1948E+04	14.7945E+04	19.8423E+04	20.3771E+04
10	14.1256E+04	18.0648E+04	19.3303E+04	12.5848E+04	15.2919E+04	15.4988E+04
12	12.2777E+04	15.0588E+04	19.7991E+04	10.6248E+04	12.4182E+04	12.7446E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	25.2240E+04	41.4287E+04	32.3583E+04	23.4588E+04	37.1332E+04	45.2839E+04
4	20.8377E+04	29.8883E+04	25.4889E+04	17.6692E+04	24.846E+04	28.5882E+04
6	18.2947E+04	21.4562E+04	23.3111E+04	15.4832E+04	18.8271E+04	17.4252E+04
8	15.7933E+04	16.731E+04	17.1548E+04	12.4354E+04	15.8828E+04	13.2831E+04
10	13.8214E+04	12.7789E+04	12.1267E+04	11.3895E+04	14.2887E+04	12.1337E+04
12	12.6852E+04	10.1688E+04	11.3218E+04	10.7887E+04	11.8447E+04	10.126E+04





**COBALT 60 SOURCE**

RECTANGULAR SLAB SOURCE = 30 IN. X 40 IN. AIR GAP = 4.0 IN. K = 0.00 V = 0

**UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES**

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1324E-01	10.1163E-01	10.1059E-01	10.1495E-01	10.1360E-01	10.1193E-01
4	10.4571E-01	10.3881E-01	10.3499E-01	10.5119E-01	10.4403E-01	10.4005E-01
6	10.9166E-01	10.7735E-01	10.5793E-01	11.0292E-01	10.8649E-01	10.8167E-01
8	11.4932E-01	11.2369E-01	11.1425E-01	11.6014E-01	11.4579E-01	11.3812E-01
10	12.1690E-01	11.8991E-01	11.6735E-01	12.4011E-01	12.1549E-01	12.0030E-01
12	12.9395E-01	12.4800E-01	12.3766E-01	13.3669E-01	12.9765E-01	12.8361E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1591E-01	10.1450E-01	10.1355E-01	10.1659E-01	10.1625E-01	10.1605E-01
4	10.3793E-01	10.3124E-01	10.4803E-01	10.6630E-01	10.5101E-01	10.5393E-01
6	11.1000E-01	11.0700E-01	11.0130E-01	11.4940E-01	11.4430E-01	11.3730E-01
8	12.0040E-01	11.9150E-01	11.7635E-01	12.4903E-01	12.3421E-01	12.2405E-01
10	13.0029E-01	12.7503E-01	12.5440E-01	13.6294E-01	13.4269E-01	13.2573E-01
12	14.1020E-01	13.6030E-01	13.7940E-01	14.8500E-01	14.7190E-01	14.6100E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1772E-01	10.1700E-01	10.1669E-01	10.2100E-01	10.2560E-01	10.2667E-01
4	10.7071E-01	10.7409E-01	10.7426E-01	11.1633E-01	11.1671E-01	11.1613E-01
6	11.7400E-01	11.7103E-01	11.6793E-01	12.0062E-01	12.0757E-01	12.0792E-01
8	13.1772E-01	13.0503E-01	13.0142E-01	13.1713E-01	13.0023E-01	13.0444E-01
10	14.9730E-01	14.6103E-01	14.7540E-01	14.3433E-01	14.2510E-01	14.2371E-01
12	17.2210E-01	17.0500E-01	17.0590E-01	17.5371E-01	17.5171E-01	17.4860E-01

**MINIMUM SPECIFIC DOSE RATE (RADS./HR. PER CURIE/50-GR.) FOR 2x4x6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES**

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	21.5042E+04	30.3000E+04	31.9536E+04	21.2701E+04	37.6404E+04	38.7414E+04
4	10.9730E+04	31.7356E+04	39.6710E+04	10.5945E+04	30.1000E+04	37.3410E+04
6	10.0744E+04	26.7954E+04	31.7094E+04	10.3700E+04	24.7157E+04	29.1029E+04
8	15.4048E+04	22.2150E+04	25.1490E+04	14.4007E+04	23.6733E+04	23.6543E+04
10	19.9720E+04	19.1017E+04	22.0653E+04	12.8930E+04	17.5032E+04	19.3109E+04
12	12.2597E+04	18.7460E+04	18.9089E+04	11.9123E+04	15.0590E+04	16.3071E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	20.9044E+04	26.6753E+04	40.5017E+04	20.0433E+04	35.4171E+04	40.1323E+04
4	10.9407E+04	25.4053E+04	34.7910E+04	17.4100E+04	24.5935E+04	31.6323E+04
6	15.9210E+04	23.7400E+04	28.2109E+04	14.7530E+04	20.5910E+04	23.0509E+04
8	17.5097E+04	19.8371E+04	20.3166E+04	12.3509E+04	16.2190E+04	17.5473E+04
10	11.0743E+04	15.3524E+04	18.3040E+04	10.7142E+04	13.1730E+04	15.7473E+04
12	10.0055E+04	12.8407E+04	15.5650E+04	91.7515E+03	10.7021E+04	11.1137E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	20.2032E+04	24.0930E+04	43.6265E+04	19.4407E+04	31.1301E+04	30.0513E+04
4	10.7094E+04	24.4407E+04	28.5940E+04	15.1037E+04	20.9612E+04	23.7533E+04
6	13.0043E+04	18.4000E+04	26.1660E+04	11.0615E+04	14.7413E+04	15.4793E+04
8	11.4493E+04	14.2412E+04	14.9720E+04	91.6102E+03	10.7345E+04	10.9961E+04
10	95.1040E+03	11.2000E+04	11.5310E+04	73.2114E+03	80.5939E+03	81.3927E+03
12	75.3240E+03	89.7040E+03	91.1430E+03	57.7991E+03	51.6440E+03	61.6324E+03

TABLE 60 SOURCE

RECTANGULAR SLAB SOURCE - 30 CM. X 40 CM. AIR GAP = 9.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.3 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1227E-01	10.1000E-01	10.0924E-01	10.1192E-01	10.1076E-01	10.1000E-01
4	10.1000E-01	10.1000E-01	10.1000E-01	10.1000E-01	10.1000E-01	10.1000E-01
6	10.1000E-01	10.1000E-01	10.1000E-01	10.1000E-01	10.1000E-01	10.1000E-01
8	11.2277E-01	11.1268E-01	11.0256E-01	11.1458E-01	11.0446E-01	10.9434E-01
10	11.9424E-01	11.8412E-01	11.7400E-01	11.8592E-01	11.7580E-01	11.6568E-01
12	12.6571E-01	12.5559E-01	12.4547E-01	12.5739E-01	12.4727E-01	12.3715E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1117E-01	10.1117E-01	10.1117E-01	10.1117E-01	10.1117E-01	10.1117E-01
4	10.1117E-01	10.1117E-01	10.1117E-01	10.1117E-01	10.1117E-01	10.1117E-01
6	10.1117E-01	10.1117E-01	10.1117E-01	10.1117E-01	10.1117E-01	10.1117E-01
8	11.7071E-01	11.5777E-01	11.4483E-01	11.8377E-01	11.7083E-01	11.5789E-01
10	12.3025E-01	12.1731E-01	12.0437E-01	12.1731E-01	12.0437E-01	11.9143E-01
12	13.0000E-01	12.8667E-01	12.7333E-01	12.8667E-01	12.7333E-01	12.6000E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1000E-01	10.1000E-01	10.1000E-01	10.1000E-01	10.1000E-01	10.1000E-01
4	10.1000E-01	10.1000E-01	10.1000E-01	10.1000E-01	10.1000E-01	10.1000E-01
6	10.1000E-01	10.1000E-01	10.1000E-01	10.1000E-01	10.1000E-01	10.1000E-01
8	12.6614E-01	12.4723E-01	12.2832E-01	12.5723E-01	12.3832E-01	12.1941E-01
10	14.2737E-01	14.0846E-01	13.8955E-01	14.1946E-01	14.0055E-01	13.8164E-01
12	16.0121E-01	15.8230E-01	15.6639E-01	15.7839E-01	15.6248E-01	15.4657E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ. CM.) FOR 2.4-6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	19.0462E+04	34.1077E+04	46.4760E+04	19.0462E+04	34.1077E+04	46.4760E+04
4	19.0462E+04	20.0738E+04	39.8230E+04	19.0462E+04	27.1075E+04	34.1077E+04
6	19.0462E+04	23.6022E+04	39.8230E+04	19.0462E+04	27.1075E+04	34.1077E+04
8	19.0462E+04	20.1952E+04	23.6022E+04	19.0462E+04	16.8894E+04	21.7818E+04
10	19.0462E+04	17.5174E+04	20.1952E+04	19.0462E+04	14.2737E+04	17.5174E+04
12	19.0462E+04	15.4618E+04	17.4037E+04	19.0462E+04	12.0437E+04	15.1943E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	19.7070E+04	32.8907E+04	43.7840E+04	19.7070E+04	31.9633E+04	41.8485E+04
4	19.7070E+04	29.0422E+04	31.9633E+04	19.7070E+04	24.2775E+04	29.0422E+04
6	19.7070E+04	20.7911E+04	24.2775E+04	19.7070E+04	19.0462E+04	21.7818E+04
8	19.7070E+04	17.0342E+04	19.0462E+04	19.7070E+04	12.0437E+04	15.1943E+04
10	19.7070E+04	14.2737E+04	15.1943E+04	19.7070E+04	9.7911E+04	12.0437E+04
12	19.7070E+04	11.9204E+04	12.5739E+04	19.7070E+04	7.5385E+04	9.7911E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2041E+04	30.8901E+04	49.7594E+04	17.7361E+04	29.6215E+04	39.5222E+04
4	10.2041E+04	27.4343E+04	39.5222E+04	17.7361E+04	19.0462E+04	21.6202E+04
6	10.2041E+04	17.7361E+04	19.0462E+04	10.2041E+04	11.0354E+04	14.4892E+04
8	10.2041E+04	13.2408E+04	13.2408E+04	10.2041E+04	8.7204E+04	10.2041E+04
10	10.2041E+04	10.4627E+04	10.4627E+04	10.2041E+04	6.0267E+04	7.6865E+04
12	10.2041E+04	8.4034E+04	8.4034E+04	10.2041E+04	4.0111E+04	5.0717E+04

UNIVERSITY RADIOS FOR MULTI-PASS IRRADIATIONS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3977E-01	10.6384E-01	10.8019E-01	10.0974E-01	10.0995E-01	10.0854E-01
4	10.1586E-01	10.3957E-01	10.2786E-01	10.1042E-01	10.1047E-01	10.3021E-01
6	10.7218E-01	10.4297E-01	10.5048E-01	10.7897E-01	10.6788E-01	10.6355E-01
8	11.1594E-01	11.0799E-01	10.9392E-01	11.2070E-01	11.1493E-01	11.0776E-01
10	11.7977E-01	11.4985E-01	11.3767E-01	11.9294E-01	11.7187E-01	11.6282E-01
12	12.4847E-01	12.0466E-01	11.8349E-01	12.6729E-01	12.4821E-01	12.2949E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0056E-01	10.0994E-01	10.0096E-01	10.0751E-01	10.0912E-01	10.0827E-01
4	10.3092E-01	10.3504E-01	10.3442E-01	10.3919E-01	10.4144E-01	10.4167E-01
6	10.8324E-01	10.7995E-01	10.7679E-01	10.9644E-01	10.9714E-01	10.9648E-01
8	11.4697E-01	11.3899E-01	11.3513E-01	11.7881E-01	11.7874E-01	11.7527E-01
10	12.1722E-01	12.1542E-01	12.1644E-01	12.8649E-01	12.8147E-01	12.7928E-01
12	12.9295E-01	12.9029E-01	12.9351E-01	14.2136E-01	14.1912E-01	14.0050E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0087E-01	10.0931E-01	10.1084E-01	10.0793E-01	10.1100E-01	10.1474E-01
4	10.4384E-01	10.4717E-01	10.5116E-01	10.6275E-01	10.7542E-01	10.7897E-01
6	11.1714E-01	11.2247E-01	11.2783E-01	11.8472E-01	11.9598E-01	11.9851E-01
8	12.2594E-01	12.3897E-01	12.2938E-01	12.7238E-01	13.0134E-01	13.0225E-01
10	12.7189E-01	12.7888E-01	12.8137E-01	16.1294E-01	16.2987E-01	16.2945E-01
12	12.9484E-01	12.9566E-01	12.9494E-01	19.7867E-01	19.8241E-01	19.8297E-01

MINIMUM SPECIFIC DOSE RATE 1840./HR. PER CURIE/50.CM. 1 FOR 2+6 PASS IRRADIATIONS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	16.9723E+04	20.6180E+04	41.7831E+04	16.8766E+04	30.2544E+04	40.9769E+04
4	15.1718E+04	23.3327E+04	32.4948E+04	16.0424E+04	24.0313E+04	31.0577E+04
6	13.6437E+04	21.4208E+04	26.3606E+04	13.5580E+04	20.4815E+04	24.5754E+04
8	12.5194E+04	18.4221E+04	21.8934E+04	11.9496E+04	17.2092E+04	18.0595E+04
10	11.1671E+04	16.0431E+04	18.0044E+04	10.7227E+04	14.7982E+04	16.5738E+04
12	10.1379E+04	14.1172E+04	16.0633E+04	96.4703E+03	12.7885E+04	13.9994E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	16.7409E+04	20.6339E+04	39.0340E+04	16.5709E+04	26.0794E+04	36.0234E+04
4	14.6799E+04	23.5140E+04	28.9751E+04	14.2914E+04	22.1832E+04	26.6100E+04
6	12.8930E+04	19.0308E+04	22.1164E+04	12.3089E+04	17.4215E+04	19.6223E+04
8	11.3491E+04	15.6734E+04	17.4525E+04	10.5044E+04	13.9461E+04	15.0590E+04
10	10.0021E+04	13.0818E+04	14.1788E+04	91.4421E+03	11.3432E+04	11.9161E+04
12	88.3406E+03	11.0441E+04	11.6498E+04	78.3381E+03	93.9292E+03	96.4992E+03

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	16.3703E+04	28.0210E+04	36.2592E+04	15.8971E+04	26.1360E+04	32.6221E+04
4	13.6406E+04	20.7730E+04	24.2776E+04	12.8207E+04	17.9827E+04	20.8667E+04
6	11.6307E+04	15.9019E+04	17.3211E+04	10.2389E+04	13.0378E+04	13.5303E+04
8	97.9630E+03	12.5805E+04	12.9682E+04	81.9209E+03	96.8116E+03	97.0327E+03
10	82.3822E+03	97.5791E+03	10.0549E+04	69.8614E+03	71.6982E+03	72.4039E+03
12	69.3291E+03	78.5907E+03	79.9272E+03	51.6198E+03	55.1086E+03	55.5959E+03

COAST 60 SOURCE

RECTANGULAR LEAD SOURCE = 20 IN. X 40 IN. AIR GAP = 7.0 IN. H = 0.09 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0281E-01	10.0748E-01	10.1135E-01	10.0819E-01	10.0777E-01	10.0743E-01
4	10.3129E-01	10.2763E-01	10.2522E-01	10.3104E-01	10.2882E-01	10.2699E-01
6	10.6312E-01	10.5651E-01	10.5153E-01	10.6672E-01	10.6084E-01	10.5722E-01
8	11.0271E-01	10.9331E-01	10.8519E-01	11.1027E-01	11.0311E-01	10.9748E-01
10	11.4845E-01	11.3735E-01	11.2962E-01	11.7246E-01	11.6355E-01	11.5615E-01
12	12.0229E-01	11.8923E-01	11.7976E-01	12.4146E-01	12.3085E-01	12.2021E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0485E-01	10.0737E-01	10.0752E-01	10.0498E-01	10.0702E-01	10.0745E-01
4	10.3039E-01	10.3073E-01	10.3047E-01	10.3071E-01	10.3085E-01	10.3032E-01
6	10.7868E-01	10.8069E-01	10.8019E-01	10.8049E-01	10.8047E-01	10.8043E-01
8	11.2807E-01	11.2386E-01	11.2115E-01	11.9425E-01	11.9091E-01	11.9613E-01
10	12.0154E-01	11.9275E-01	11.9022E-01	12.9214E-01	12.9228E-01	12.9113E-01
12	12.9163E-01	12.7997E-01	12.7549E-01	13.7579E-01	13.7322E-01	13.7171E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0293E-01	10.0687E-01	10.0654E-01	10.0204E-02	10.0786E-01	10.1127E-01
4	10.3306E-01	10.4124E-01	10.4362E-01	10.4688E-01	10.4216E-01	10.4644E-01
6	10.9649E-01	11.0973E-01	11.0759E-01	11.9254E-01	11.6798E-01	11.7239E-01
8	11.6997E-01	12.0209E-01	12.0912E-01	13.2173E-01	13.3701E-01	13.3822E-01
10	13.2691E-01	13.3248E-01	13.3332E-01	14.0612E-01	13.6355E-01	13.7351E-01
12	14.9818E-01	15.0194E-01	15.0283E-01	16.7864E-01	16.8816E-01	16.8832E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/50 CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	15.2051E+03	27.9478E+04	37.7269E+04	15.1415E+04	27.2637E+04	37.0756E+04
4	15.6687E+04	22.9582E+04	29.9796E+04	15.5277E+04	22.3863E+04	28.8897E+04
6	12.3427E+04	16.5222E+04	24.0787E+04	12.1222E+04	18.7204E+04	22.5441E+04
8	11.1842E+04	16.8574E+04	20.1306E+04	10.8925E+04	15.8832E+04	18.3945E+04
10	10.1798E+04	14.7355E+04	17.1674E+04	98.1186E+03	13.6355E+04	15.3247E+04
12	92.6954E+03	15.0089E+04	14.8694E+04	88.9364E+03	11.0203E+04	12.9784E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	15.0642E+04	24.7486E+04	35.9851E+04	14.9175E+04	24.1758E+04	34.6262E+04
4	15.2911E+04	21.4437E+04	26.5482E+04	12.9802E+04	20.3037E+04	24.4623E+04
6	11.7444E+04	17.4683E+04	20.1804E+04	11.2385E+04	14.0439E+04	16.1273E+04
8	10.3887E+04	14.4488E+04	16.1321E+04	97.8435E+03	12.9021E+04	13.9624E+04
10	91.8642E+03	12.0985E+04	13.0978E+04	84.5842E+03	10.9339E+04	11.0864E+04
12	81.5261E+03	10.2047E+04	10.8446E+04	73.2345E+03	87.1236E+03	89.9372E+03

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	14.7648E+04	25.4667E+04	33.1191E+04	14.9951E+04	23.8812E+04	29.9664E+04
4	12.6127E+04	19.0795E+04	22.3832E+04	11.7640E+04	14.4272E+04	18.6111E+04
6	10.7017E+04	14.6077E+04	16.0522E+04	94.8611E+03	11.9675E+04	12.6189E+04
8	90.5462E+03	11.6244E+04	12.0634E+04	76.0675E+03	88.7607E+03	90.9180E+03
10	76.5242E+03	90.9495E+03	93.0238E+03	60.6515E+03	67.3636E+03	64.0854E+03
12	64.6558E+03	73.4993E+03	74.7874E+03	48.4328E+03	51.9860E+03	52.2279E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 30 IN. X 60 IN. AIR GAP = 0.0 IN. X = 0.00 7 70

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	98.2799E-02	99.5152E-02	99.8817E-02	18.8378E-01	18.8833E-01	18.8893E-01
4	18.8528E-01	18.1363E-01	18.1788E-01	18.4718E-01	18.4391E-01	18.4254E-01
6	18.5319E-01	18.5437E-01	18.5123E-01	11.1333E-01	10.9761E-01	10.9762E-01
8	11.1493E-01	11.0922E-01	10.9707E-01	11.9393E-01	11.4544E-01	11.4340E-01
10	11.9132E-01	11.6391E-01	11.5262E-01	12.8681E-01	12.4629E-01	12.3197E-01
12	12.7499E-01	12.3507E-01	12.1698E-01	13.9162E-01	13.3992E-01	13.2216E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2433E-01	19.2210E-01	10.2004E-01	10.4552E-01	10.3710E-01	10.3270E-01
4	19.8212E-01	18.7865E-01	10.6638E-02	11.4125E-01	11.1921E-01	11.0492E-01
6	11.8326E-01	11.5537E-01	11.4219E-01	12.6538E-01	12.2426E-01	12.1075E-01
8	12.9281E-01	12.3090E-01	12.3691E-01	14.1653E-01	13.6411E-01	13.4939E-01
10	14.2044E-01	13.6871E-01	13.3350E-01	15.9645E-01	15.3653E-01	15.2270E-01
12	15.6799E-01	15.0744E-01	14.8257E-01	18.0874E-01	17.4626E-01	17.3205E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.4783E-01	10.5844E-01	10.4712E-01	11.1654E-01	10.9173E-01	10.8165E-01
4	11.9584E-01	11.6043E-01	11.4782E-01	13.2273E-01	12.7299E-01	12.5707E-01
6	13.6381E-01	13.1896E-01	12.9641E-01	14.9072E-01	14.3678E-01	14.2247E-01
8	15.4770E-01	15.0754E-01	14.9382E-01	17.6401E-01	16.9582E-01	16.8530E-01
10	18.1923E-01	17.5452E-01	17.4292E-01	24.3162E-01	23.4523E-01	23.3819E-01
12	21.2591E-01	20.5774E-01	20.4458E-01	30.2752E-01	29.4623E-01	29.4179E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ. CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	37.1121E+04	65.8804E+04	88.3777E+04	35.0406E+04	61.1315E+04	81.2584E+04
4	32.7119E+04	55.0731E+04	66.9067E+04	30.1106E+04	47.9705E+04	59.5538E+04
6	28.7883E+04	42.9148E+04	53.0930E+04	26.0909E+04	38.9157E+04	44.0500E+04
8	25.4626E+04	37.1111E+04	43.5355E+04	22.8253E+04	32.2980E+04	34.8668E+04
10	22.6973E+04	31.8794E+04	36.5586E+04	20.1269E+04	27.2612E+04	30.2955E+04
12	20.3612E+04	27.7518E+04	31.2378E+04	17.8600E+04	23.3128E+04	25.3489E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	33.1115E+04	56.4911E+04	73.8291E+04	31.3265E+04	52.1749E+04	66.9124E+04
4	27.5987E+04	42.0913E+04	51.7176E+04	29.2695E+04	37.8032E+04	44.6242E+04
6	23.3797E+04	33.5967E+04	38.5989E+04	20.8460E+04	28.7559E+04	32.0973E+04
8	20.5461E+04	27.1376E+04	30.0037E+04	17.4459E+04	22.5599E+04	24.2345E+04
10	17.3380E+04	22.3402E+04	24.0193E+04	14.7380E+04	18.0799E+04	18.9435E+04
12	15.0927E+04	18.6629E+04	19.8632E+04	12.5938E+04	14.7430E+04	15.1918E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	29.4785E+04	48.2410E+04	60.8926E+04	28.7453E+04	41.4824E+04	50.3177E+04
4	23.1477E+04	33.4891E+04	38.9372E+04	18.4977E+04	26.4295E+04	29.1612E+04
6	18.5625E+04	24.5920E+04	26.7680E+04	14.7352E+04	18.1675E+04	19.0551E+04
8	15.1258E+04	18.7254E+04	19.6824E+04	11.5448E+04	13.0814E+04	13.3754E+04
10	12.4516E+04	14.4276E+04	15.0548E+04	88.3515E+03	97.2249E+03	98.2119E+03
12	10.3215E+04	11.6479E+04	11.6407E+04	69.3180E+03	73.8843E+03	74.2170E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 30 IN. X 60 IN. AIR GAP = 1.0 IN. K = 0.00 V = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1006E-01	10.1048E-01	10.1016E-01	10.2902E-01	10.1981E-01	10.1740E-01
4	10.4704E-01	10.4087E-01	10.3669E-01	10.7710E-01	10.6178E-01	10.5440E-01
6	11.0290E-01	10.8390E-01	10.7507E-01	11.4430E-01	11.1032E-01	11.0663E-01
8	11.6629E-01	11.3697E-01	11.2330E-01	12.2791E-01	11.8769E-01	11.7224E-01
10	12.4094E-01	11.8979E-01	11.8038E-01	13.2110E-01	12.6946E-01	12.5110E-01
12	13.2405E-01	12.6873E-01	12.4578E-01	14.2593E-01	13.6373E-01	13.4325E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3757E-01	10.2968E-01	10.2570E-01	10.5227E-01	10.4084E-01	10.3548E-01
4	11.1030E-01	10.8760E-01	10.7818E-01	11.4860E-01	11.1945E-01	11.0831E-01
6	12.0231E-01	11.6574E-01	11.5240E-01	12.7132E-01	12.2763E-01	12.1349E-01
8	13.1165E-01	12.4345E-01	12.4782E-01	14.2029E-01	13.6607E-01	13.5122E-01
10	14.3802E-01	13.8128E-01	13.6470E-01	15.9800E-01	15.3671E-01	15.2265E-01
12	15.8540E-01	15.2026E-01	15.0376E-01	18.0784E-01	17.4226E-01	17.2979E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.6837E-01	10.5356E-01	10.4695E-01	11.0561E-01	10.8421E-01	10.7537E-01
4	11.9289E-01	11.5790E-01	11.4548E-01	13.0096E-01	12.5596E-01	12.4224E-01
6	13.5465E-01	13.0505E-01	12.9082E-01	15.6818E-01	15.1021E-01	14.9740E-01
8	15.5611E-01	14.9761E-01	14.8420E-01	19.1959E-01	18.3728E-01	18.4759E-01
10	18.0281E-01	17.3992E-01	17.2857E-01	23.7937E-01	23.1280E-01	23.0572E-01
12	21.0173E-01	20.3771E-01	20.2874E-01	29.5265E-01	28.9589E-01	28.9176E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	33.3523E+04	59.1016E+04	79.6276E+04	32.0629E+04	55.9231E+04	74.4649E+04
4	29.1800E+04	47.6789E+04	60.4263E+04	27.4572E+04	43.9634E+04	54.7580E+04
6	25.7492E+04	39.6644E+04	48.2238E+04	23.8602E+04	35.8065E+04	42.5264E+04
8	22.9095E+04	33.7006E+04	39.7447E+04	20.9522E+04	29.8301E+04	34.1817E+04
10	20.5261E+04	29.0854E+04	33.5141E+04	18.5415E+04	25.2613E+04	28.1582E+04
12	18.4988E+04	25.4107E+04	28.7503E+04	16.5063E+04	21.6642E+04	23.6334E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	30.7565E+04	52.5339E+04	68.7703E+04	29.4688E+04	49.1767E+04	63.1654E+04
4	25.6328E+04	39.7982E+04	48.3240E+04	23.8224E+04	35.7366E+04	42.2487E+04
6	21.7731E+04	31.4160E+04	36.1727E+04	19.7079E+04	27.2502E+04	30.4539E+04
8	18.7245E+04	25.4441E+04	28.1630E+04	16.5291E+04	21.4114E+04	23.0399E+04
10	16.2364E+04	20.9931E+04	22.6044E+04	13.9887E+04	17.1924E+04	18.0255E+04
12	14.1653E+04	17.5707E+04	18.5339E+04	11.9143E+04	14.0366E+04	14.4707E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	28.2115E+04	45.9681E+04	57.9146E+04	25.8924E+04	40.1647E+04	46.7722E+04
4	22.0851E+04	31.9971E+04	36.8760E+04	18.9254E+04	25.6803E+04	28.3422E+04
6	17.7565E+04	23.5806E+04	25.4579E+04	14.3321E+04	17.6788E+04	18.5638E+04
8	14.4944E+04	17.9633E+04	18.8889E+04	11.0472E+04	12.7395E+04	13.0267E+04
10	11.9465E+04	14.0444E+04	14.4405E+04	86.0755E+03	94.7258E+03	95.6873E+03
12	99.1200E+03	11.1936E+04	11.3810E+04	67.5463E+03	71.9984E+03	72.3235E+03

RECTANGULAR SLAB SOURCE = 30 IN. X 60 IN. AIR GAP = 2.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1439E-01	10.1266E-01	10.1141E-01	10.2244E-01	10.1833E-01	10.1605E-01
4	10.5034E-01	10.4169E-01	10.3694E-01	10.6995E-01	10.5612E-01	10.4968E-01
6	10.9996E-01	10.8163E-01	10.7265E-01	11.3200E-01	11.0725E-01	10.9681E-01
8	11.5582E-01	11.3054E-01	11.1714E-01	12.0591E-01	11.7039E-01	11.5634E-01
10	12.2837E-01	11.9748E-01	11.6970E-01	12.9097E-01	12.4520E-01	12.2864E-01
12	13.0486E-01	12.5195E-01	12.2993E-01	13.8716E-01	13.3176E-01	13.1319E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3027E-01	10.2448E-01	10.2148E-01	10.3877E-01	10.3165E-01	10.2805E-01
4	10.9224E-01	10.7475E-01	10.6726E-01	11.1917E-01	10.9842E-01	10.8848E-01
6	11.7261E-01	11.4430E-01	11.3337E-01	12.2674E-01	11.9616E-01	11.8221E-01
8	12.7175E-01	12.3249E-01	12.1940E-01	13.4034E-01	13.1849E-01	13.0666E-01
10	13.8749E-01	13.3973E-01	13.2562E-01	15.2169E-01	14.7324E-01	14.6160E-01
12	15.2161E-01	14.6690E-01	14.5269E-01	17.1351E-01	16.6075E-01	16.5004E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.4844E-01	10.4011E-01	10.3600E-01	10.7231E-01	10.6148E-01	10.5645E-01
4	11.5168E-01	11.2831E-01	11.1957E-01	12.3517E-01	12.0551E-01	11.9727E-01
6	12.9333E-01	12.5779E-01	12.4714E-01	14.6998E-01	14.2992E-01	14.2507E-01
8	14.7391E-01	14.3026E-01	14.1993E-01	17.8484E-01	17.3992E-01	17.3272E-01
10	16.9760E-01	16.4942E-01	16.4048E-01	21.9515E-01	21.4990E-01	21.4492E-01
12	19.7034E-01	19.2036E-01	19.1317E-01	27.2140E-01	26.7854E-01	26.7534E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	29.5729E+04	52.6809E+04	71.5034E+04	28.7683E+04	50.5112E+04	67.5753E+04
4	26.0719E+04	42.6771E+04	54.6502E+04	24.8495E+04	48.0973E+04	58.1778E+04
6	23.1080E+04	35.9229E+04	43.9168E+04	21.7429E+04	32.8734E+04	39.2864E+04
8	20.6798E+04	30.6945E+04	36.3904E+04	19.1973E+04	27.5216E+04	31.6580E+04
10	18.6227E+04	26.6165E+04	30.6182E+04	17.0641E+04	23.3772E+04	26.1618E+04
12	16.8780E+04	23.3491E+04	26.5932E+04	15.2478E+04	20.1296E+04	22.6164E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	27.9834E+04	40.8985E+04	63.8765E+04	27.8848E+04	40.4493E+04	58.4324E+04
4	23.5184E+04	34.7746E+04	44.6266E+04	22.1255E+04	33.4088E+04	39.6857E+04
6	20.1269E+04	29.2112E+04	33.7332E+04	18.4443E+04	25.6212E+04	28.6898E+04
8	17.3978E+04	23.7888E+04	26.3784E+04	15.9464E+04	20.3882E+04	21.7669E+04
10	15.1468E+04	19.6889E+04	21.2144E+04	13.7833E+04	16.2719E+04	17.0754E+04
12	13.2560E+04	16.5841E+04	17.4317E+04	11.2754E+04	13.3132E+04	13.7931E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	26.8999E+04	42.6873E+04	54.2748E+04	24.2698E+04	38.8213E+04	48.5817E+04
4	20.7319E+04	30.2883E+04	34.6884E+04	18.7813E+04	24.6366E+04	27.2327E+04
6	17.9423E+04	22.3817E+04	24.2897E+04	13.7822E+04	17.8837E+04	17.8725E+04
8	15.7748E+04	17.1887E+04	18.6853E+04	11.8447E+04	12.3882E+04	14.2596E+04
10	11.7876E+04	13.4114E+04	13.6278E+04	8.2385E+03	9.7892E+03	9.2.6432E+03
12	9.4487E+03	10.7868E+04	10.6892E+04	6.5486E+03	6.7.7832E+03	7.8.1832E+03

RECTANGULAR SLAS SOURCE = 30 IN. X 60 IN. AIR GAP = 3.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1321E-01	10.1144E-01	10.1030E-01	10.1780E-01	10.1492E-01	10.1324E-01
4	10.4971E-01	10.3734E-01	10.3310E-01	10.9758E-01	10.4725E-01	10.4224E-01
6	10.8900E-01	10.7314E-01	10.6570E-01	11.1134E-01	10.9280E-01	10.8364E-01
8	11.4248E-01	11.1714E-01	11.0520E-01	11.7648E-01	11.4828E-01	11.3673E-01
10	12.0449E-01	11.6859E-01	11.5240E-01	12.5289E-01	12.1944E-01	12.0131E-01
12	12.7382E-01	12.2700E-01	12.0764E-01	13.3959E-01	12.9349E-01	12.7748E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2191E-01	10.1842E-01	10.1675E-01	10.2634E-01	10.2305E-01	10.2111E-01
4	10.7205E-01	10.4094E-01	10.5520E-01	10.9048E-01	10.7821E-01	10.7288E-01
6	11.4142E-01	11.2080E-01	11.1281E-01	11.8704E-01	11.6059E-01	11.5291E-01
8	12.2784E-01	11.9872E-01	11.8954E-01	12.9942E-01	12.7020E-01	12.6144E-01
10	13.3115E-01	12.9457E-01	12.8331E-01	14.4344E-01	14.0831E-01	13.9962E-01
12	14.5197E-01	14.0908E-01	13.9750E-01	16.1630E-01	15.7684E-01	15.6895E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3160E-01	10.2849E-01	10.2652E-01	10.4575E-01	10.4299E-01	10.4095E-01
4	11.1344E-01	11.0886E-01	10.9595E-01	11.7484E-01	11.6242E-01	11.5721E-01
6	12.3442E-01	12.1242E-01	12.0593E-01	13.7922E-01	13.5922E-01	13.4949E-01
8	13.9354E-01	13.4439E-01	13.5711E-01	16.5768E-01	16.2891E-01	16.2487E-01
10	15.9347E-01	15.5987E-01	15.5334E-01	20.2459E-01	19.9434E-01	19.9089E-01
12	18.3925E-01	18.0334E-01	17.9795E-01	24.9808E-01	24.6879E-01	24.6429E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ. CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	20.2695E+04	47.9978E+04	64.8035E+04	23.7492E+04	45.5001E+04	41.7593E+04
4	23.2918E+04	33.7892E+04	49.3974E+04	22.4731E+04	36.3442E+04	42.9099E+04
6	26.8211E+04	32.4586E+04	48.1322E+04	19.8109E+04	26.1875E+04	26.1674E+04
8	18.7366E+04	18.9529E+04	31.4234E+04	17.5719E+04	25.4824E+04	29.3232E+04
10	14.9529E+04	24.4345E+04	29.4212E+04	15.7892E+04	21.6821E+04	24.3293E+04
12	13.4899E+04	21.5174E+04	24.5527E+04	14.8911E+04	18.7519E+04	20.5244E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	27.1620E+04	43.7834E+04	57.8835E+04	24.3272E+04	41.4938E+04	24.1893E+04
4	21.4844E+04	33.8897E+04	41.4664E+04	23.4849E+04	31.6432E+04	26.9447E+04
6	18.5613E+04	27.9948E+04	31.7994E+04	17.1674E+04	23.7824E+04	26.0208E+04
8	16.1233E+04	22.1667E+04	26.8494E+04	14.9564E+04	19.8894E+04	23.5821E+04
10	14.1688E+04	18.7884E+04	19.8827E+04	12.4182E+04	18.3828E+04	18.1271E+04
12	12.3991E+04	15.4037E+04	16.3768E+04	10.6387E+04	12.9974E+04	13.0888E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	27.8884E+04	39.4395E+04	50.4384E+04	22.4797E+04	25.6188E+04	43.6126E+04
4	19.2862E+04	28.4791E+04	32.7884E+04	17.8848E+04	23.2884E+04	29.8871E+04
6	15.7792E+04	24.1218E+04	25.8884E+04	15.1888E+04	18.8884E+04	17.1884E+04
8	14.8884E+04	18.7884E+04	17.8884E+04	14.8884E+04	17.8884E+04	12.8884E+04
10	10.8884E+04	12.7884E+04	13.8884E+04	10.8884E+04	12.8884E+04	13.8884E+04
12	9.8884E+04	10.8884E+04	10.8884E+04	9.8884E+04	10.8884E+04	10.8884E+04



CONSTANT SOURCE

RECTANGULAR SLAB SOURCE = 30 IN. X 40 IN. AIR GAP = 4.0 IN.  $\lambda = 0.00 \text{ } \mu\text{-C}$

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1137E-01	10.0005E-01	10.0001E-01	10.1390E-01	10.1202E-01	10.1000E-01
4	10.1311E-01	10.1204E-01	10.1229E-01	10.1701E-01	10.1645E-01	10.1597E-01
6	10.1701E-01	10.1645E-01	10.1597E-01	10.1939E-01	10.1890E-01	10.1842E-01
8	11.2021E-01	11.1944E-01	11.1861E-01	11.2124E-01	11.2066E-01	11.1992E-01
10	11.0204E-01	11.1104E-01	11.1042E-01	11.1953E-01	11.1894E-01	11.1835E-01
12	12.1523E-01	12.0909E-01	12.0816E-01	12.1977E-01	12.1904E-01	12.1823E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1575E-01	10.1417E-01	10.1342E-01	10.1763E-01	10.1661E-01	10.1561E-01
4	10.1649E-01	10.1616E-01	10.1584E-01	10.1832E-01	10.1824E-01	10.1816E-01
6	11.1521E-01	11.1514E-01	11.1503E-01	11.1617E-01	11.1612E-01	11.1605E-01
8	11.1919E-01	11.1923E-01	11.1924E-01	11.1923E-01	11.1923E-01	11.1923E-01
10	12.0333E-01	12.0323E-01	12.0312E-01	12.0312E-01	12.0312E-01	12.0312E-01
12	13.0231E-01	13.0197E-01	13.0162E-01	13.0162E-01	13.0162E-01	13.0162E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1994E-01	10.1923E-01	10.1874E-01	10.2132E-01	10.2061E-01	10.2000E-01
4	10.1947E-01	10.1900E-01	10.1870E-01	11.1920E-01	11.1870E-01	11.1820E-01
6	11.1705E-01	11.1610E-01	11.1529E-01	11.1610E-01	11.1529E-01	11.1448E-01
8	11.1700E-01	11.1642E-01	11.1570E-01	11.1570E-01	11.1507E-01	11.1444E-01
10	11.0094E-01	11.0041E-01	11.0000E-01	11.0000E-01	11.0000E-01	11.0000E-01
12	11.1914E-01	11.1861E-01	11.1817E-01	11.1817E-01	11.1763E-01	11.1710E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/50.CK.) FOR 2.0 G PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	23.4516E+00	42.2990E+00	57.2702E+00	21.1000E+00	41.1000E+00	56.0000E+00
4	20.0000E+00	38.0000E+00	45.1250E+00	20.0000E+00	38.0000E+00	45.0000E+00
6	10.0000E+00	20.0000E+00	30.0000E+00	10.0000E+00	20.0000E+00	30.0000E+00
8	17.0000E+00	29.7000E+00	39.7000E+00	16.1000E+00	25.4000E+00	34.1000E+00
10	15.0000E+00	27.0000E+00	34.0000E+00	14.0000E+00	24.0000E+00	32.0000E+00
12	16.1277E+00	19.0705E+00	22.7100E+00	11.0000E+00	17.1270E+00	23.1270E+00

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	22.6073E+00	39.7616E+00	52.0761E+00	20.2000E+00	36.1000E+00	49.0100E+00
4	19.0000E+00	31.1700E+00	39.1400E+00	18.0000E+00	29.0000E+00	36.0000E+00
6	17.0000E+00	28.1000E+00	36.2000E+00	16.0000E+00	26.0000E+00	33.0000E+00
8	16.0270E+00	28.2000E+00	33.0000E+00	15.0000E+00	25.0000E+00	30.0000E+00
10	17.1151E+00	17.0000E+00	26.0000E+00	11.0000E+00	24.0000E+00	29.0000E+00
12	11.5031E+00	16.1000E+00	19.1000E+00	10.0000E+00	21.0000E+00	27.0000E+00

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	21.7020E+00	36.0000E+00	46.1000E+00	20.0000E+00	33.1000E+00	46.0100E+00
4	17.0000E+00	28.0000E+00	35.0000E+00	18.0000E+00	28.0000E+00	36.0000E+00
6	16.7570E+00	26.0000E+00	31.7500E+00	17.0000E+00	26.0000E+00	34.0000E+00
8	17.7000E+00	19.2000E+00	26.7000E+00	16.0000E+00	23.0000E+00	31.0000E+00
10	16.1700E+00	17.0000E+00	22.0000E+00	15.0000E+00	22.0000E+00	29.0000E+00
12	19.1000E+00	19.0000E+00	26.7000E+00	14.0000E+00	21.0000E+00	28.0000E+00

COBALT 60 SOURCE

RECTANGULAR SLAG SOURCE = 30 IN. X 60 IN. AIR GAP = 5.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0974E-01	10.0864E-01	10.0789E-01	10.1101E-01	10.0984E-01	10.0906E-01
4	10.3408E-01	10.2902E-01	10.2608E-01	10.3881E-01	10.3366E-01	10.3082E-01
6	10.6891E-01	10.5782E-01	10.5193E-01	10.7926E-01	10.6843E-01	10.6312E-01
8	11.1227E-01	10.9376E-01	10.8454E-01	11.3058E-01	11.1322E-01	11.0549E-01
10	11.6303E-01	11.3614E-01	11.2345E-01	11.9194E-01	11.6772E-01	11.5784E-01
12	12.2054E-01	11.8458E-01	11.6842E-01	12.6302E-01	12.3190E-01	12.2025E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1145E-01	10.1094E-01	10.1045E-01	10.1172E-01	10.1239E-01	10.1236E-01
4	10.4414E-01	10.4047E-01	10.3828E-01	10.5197E-01	10.5040E-01	10.4898E-01
6	10.9478E-01	10.8620E-01	10.8209E-01	11.1838E-01	11.1241E-01	11.0946E-01
8	11.6171E-01	11.4764E-01	11.4194E-01	12.0935E-01	11.9857E-01	11.9460E-01
10	12.4446E-01	12.2500E-01	12.1821E-01	13.2504E-01	13.0990E-01	13.0549E-01
12	13.4323E-01	13.1880E-01	13.1145E-01	14.6673E-01	14.4799E-01	14.4360E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1227E-01	10.1445E-01	10.1494E-01	10.1544E-01	10.2098E-01	10.2247E-01
4	10.6341E-01	10.6399E-01	10.6325E-01	10.9946E-01	11.0349E-01	11.0366E-01
6	11.5166E-01	11.4795E-01	11.4591E-01	12.5078E-01	12.4995E-01	12.4898E-01
8	12.7567E-01	12.6751E-01	12.6479E-01	14.7122E-01	14.6614E-01	14.6482E-01
10	14.3701E-01	14.2518E-01	14.2236E-01	17.6946E-01	17.6158E-01	17.6041E-01
12	16.3909E-01	16.2459E-01	16.2203E-01	21.5930E-01	21.4994E-01	21.4906E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CH.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	21.0609E+04	38.1762E+04	52.3617E+04	20.8211E+04	37.3482E+04	50.7082E+04
4	18.9305E+04	31.9184E+04	41.3129E+04	18.4988E+04	30.5712E+04	38.6181E+04
6	17.1153E+04	27.2636E+04	33.8447E+04	16.5207E+04	25.5701E+04	30.8952E+04
8	15.5495E+04	23.6521E+04	28.4489E+04	14.8518E+04	21.7232E+04	25.2676E+04
10	14.1895E+04	20.7866E+04	24.3705E+04	13.3600E+04	18.6851E+04	21.0938E+04
12	12.9879E+04	18.4094E+04	21.1833E+04	12.0724E+04	16.2297E+04	17.8956E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	20.5261E+04	26.2353E+04	48.4333E+04	20.1863E+04	34.9510E+04	45.8682E+04
4	17.9204E+04	28.7150E+04	35.4730E+04	17.2440E+04	26.6674E+04	31.9971E+04
6	15.7092E+04	23.2869E+04	27.1726E+04	14.7647E+04	20.8962E+04	23.5848E+04
8	13.8210E+04	19.2184E+04	21.5055E+04	12.6786E+04	16.7201E+04	18.1033E+04
10	12.1980E+04	16.0837E+04	17.4525E+04	10.9172E+04	13.6058E+04	14.3271E+04
12	10.7946E+04	13.6153E+04	15.4451E+04	94.2345E+03	11.2245E+04	11.6046E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	19.8109E+04	33.5740E+04	43.2147E+04	18.9825E+04	30.7405E+04	38.0710E+04
4	16.5063E+04	24.6047E+04	28.7107E+04	14.9493E+04	20.7610E+04	23.1012E+04
6	13.7631E+04	18.6182E+04	20.4215E+04	11.7580E+04	14.6892E+04	15.4393E+04
8	11.5039E+04	14.4505E+04	15.2565E+04	92.703E+03	10.7671E+04	11.0245E+04
10	96.4073E+03	11.4441E+04	11.8085E+04	73.3048E+03	81.0057E+03	81.8745E+03
12	80.9850E+03	92.0899E+03	93.7526E+03	58.1169E+03	62.1012E+03	62.3966E+03

RECTANGULAR SLAB SOURCE = 30 IN. X 60 IN. AIR GAP = 6.0 IN. X = 0.00 Y = 0

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0844E-01	10.0758E-01	10.0698E-01	10.0889E-01	10.0818E-01	10.0767E-01
4	10.2999E-01	10.2587E-01	10.2338E-01	10.3253E-01	10.2897E-01	10.2695E-01
6	10.6133E-01	10.5201E-01	10.4688E-01	10.6802E-01	10.5999E-01	10.5578E-01
8	11.0072E-01	10.8481E-01	10.7664E-01	11.1391E-01	11.0043E-01	10.9407E-01
10	11.4715E-01	11.2366E-01	11.1225E-01	11.6945E-01	11.5001E-01	11.4169E-01
12	11.9997E-01	11.6817E-01	11.5349E-01	12.3428E-01	12.0871E-01	11.8872E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0844E-01	10.0859E-01	10.0849E-01	10.0766E-01	10.0922E-01	10.0970E-01
4	10.3518E-01	10.3381E-01	10.3261E-01	10.3980E-01	10.4133E-01	10.4116E-01
6	10.7886E-01	10.7418E-01	10.7148E-01	10.9680E-01	10.9586E-01	10.9456E-01
8	11.3825E-01	11.2936E-01	11.2528E-01	11.7753E-01	11.7313E-01	11.7087E-01
10	12.1288E-01	11.9953E-01	11.9442E-01	12.8207E-01	12.7411E-01	12.7129E-01
12	13.0286E-01	12.8522E-01	12.7948E-01	14.1143E-01	14.0028E-01	13.9728E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0698E-01	10.1033E-01	10.1148E-01	10.0711E-01	10.1456E-01	10.1703E-01
4	10.4750E-01	10.5204E-01	10.5279E-01	10.7463E-01	10.8433E-01	10.8630E-01
6	11.2347E-01	11.2507E-01	11.2560E-01	12.0670E-01	12.1363E-01	12.1438E-01
8	12.3398E-01	12.3316E-01	12.3210E-01	14.0488E-01	14.0819E-01	14.0817E-01
10	13.8025E-01	13.7627E-01	13.7484E-01	16.7662E-01	16.7689E-01	16.7688E-01
12	15.6518E-01	15.5860E-01	15.5711E-01	20.3419E-01	20.3230E-01	20.3195E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.-CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	19.0084E+04	34.6155E+04	47.6500E+04	18.8396E+04	33.9861E+04	46.3395E+04
4	17.1814E+04	29.1536E+04	37.9023E+04	16.8580E+04	28.0554E+04	35.7838E+04
6	15.6071E+04	25.3365E+04	31.2227E+04	15.1465E+04	23.6024E+04	28.6367E+04
8	14.2369E+04	21.8134E+04	26.3546E+04	13.6563E+04	20.7416E+04	23.5124E+04
10	13.0345E+04	19.2207E+04	22.6523E+04	12.3497E+04	17.3840E+04	19.6877E+04
12	11.9722E+04	17.0914E+04	19.7451E+04	11.1975E+04	15.1440E+04	16.7439E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	18.6227E+04	33.0995E+04	44.4495E+04	18.3658E+04	32.0487E+04	42.2732E+04
4	16.4034E+04	26.4840E+04	32.8600E+04	15.8568E+04	24.7132E+04	29.7757E+04
6	14.4768E+04	21.6111E+04	25.9069E+04	13.6829E+04	19.4932E+04	23.0647E+04
8	12.8047E+04	17.9156E+04	20.1034E+04	11.8192E+04	15.5669E+04	16.9900E+04
10	11.3500E+04	15.0459E+04	16.3610E+04	10.2244E+04	12.7980E+04	13.4919E+04
12	10.0806E+04	12.7732E+04	13.5733E+04	88.9858E+03	10.5864E+04	10.9544E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	18.0759E+04	30.9004E+04	39.8849E+04	17.4201E+04	28.4883E+04	35.4703E+04
4	15.7478E+04	23.4078E+04	26.8288E+04	15.9318E+04	19.4874E+04	21.7495E+04
6	12.8247E+04	17.4324E+04	19.1859E+04	11.0482E+04	13.8897E+04	14.4359E+04
8	10.7879E+04	13.6103E+04	14.3883E+04	87.8644E+03	10.2329E+04	10.4831E+04
10	90.8433E+03	10.8177E+04	11.1706E+04	69.8199E+03	77.2819E+03	78.1281E+03
12	76.4003E+03	87.3032E+03	88.9171E+03	55.3548E+03	58.4250E+03	59.7133E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 30 IN. X 60 IN. AIR GAP = 7.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0741E-01	1.06673E-01	10.0624E-01	10.0733E-01	10.0692E-01	10.0659E-01
4	10.2668E-01	10.2328E-01	10.2116E-01	10.2765E-01	10.2525E-01	10.2368E-01
6	10.5509E-01	10.4717E-01	10.4267E-01	10.5906E-01	10.5315E-01	10.4982E-01
8	10.9112E-01	10.7732E-01	10.7001E-01	11.0035E-01	10.8992E-01	10.8469E-01
10	11.3383E-01	11.1313E-01	11.0280E-01	11.5088E-01	11.3531E-01	11.2828E-01
12	11.8261E-01	11.5425E-01	11.4084E-01	12.1030E-01	11.8929E-01	11.8070E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0628E-01	10.0684E-01	10.0699E-01	10.0480E-01	10.0690E-01	10.0771E-01
4	10.2836E-01	10.2863E-01	10.2817E-01	10.3059E-01	10.3432E-01	10.3509E-01
6	10.5630E-01	10.6457E-01	10.6299E-01	10.7981E-01	10.8270E-01	10.8270E-01
8	11.1929E-01	11.1448E-01	11.1172E-01	11.5189E-01	11.5250E-01	11.5155E-01
10	11.8694E-01	11.7859E-01	11.7483E-01	12.4680E-01	12.4469E-01	12.4321E-01
12	12.6933E-01	12.5727E-01	12.5290E-01	13.6554E-01	13.6067E-01	13.5894E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0329E-01	10.0732E-01	10.0891E-01	10.0131E-01	10.0988E-01	10.1302E-01
4	10.3546E-01	10.4283E-01	10.4471E-01	10.5567E-01	10.6255E-01	10.7293E-01
6	11.0123E-01	11.0834E-01	11.0949E-01	11.7166E-01	11.8471E-01	11.8687E-01
8	12.0027E-01	12.0532E-01	12.0564E-01	13.5100E-01	13.6112E-01	13.6219E-01
10	13.3363E-01	13.3610E-01	13.3583E-01	16.0019E-01	16.0720E-01	16.0782E-01
12	15.0384E-01	15.0383E-01	15.0327E-01	19.3026E-01	19.3462E-01	19.3473E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	17.2361E+04	31.9171E+04	43.5271E+04	17.1153E+04	31.0305E+04	42.4466E+04
4	35.6557E+04	26.7195E+04	34.8821E+04	15.4095E+04	25.8116E+04	33.0621E+04
6	15.2810E+04	23.0599E+04	28.8632E+04	13.9152E+04	21.8313E+04	26.5951E+04
8	13.0751E+04	20.1713E+04	24.4756E+04	12.5995E+04	19.7009E+04	21.9168E+04
10	12.0100E+04	17.8332E+04	21.1037E+04	11.4358E+04	15.1995E+04	18.4041E+04
12	11.0637E+04	15.9033E+04	18.4440E+04	10.4021E+04	14.1514E+04	15.6887E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	16.9529E+04	30.3129E+04	40.8821E+04	16.7549E+04	29.4415E+04	39.0165E+04
4	15.0468E+04	24.4665E+04	30.4847E+04	14.5989E+04	22.9252E+04	27.7295E+04
6	13.3600E+04	20.0799E+04	23.9965E+04	12.6866E+04	18.1914E+04	20.6511E+04
8	11.8752E+04	16.7168E+04	18.8103E+04	11.0193E+04	14.6871E+04	15.9651E+04
10	10.5692E+04	14.0899E+04	15.3498E+04	95.7494E+03	12.0345E+04	12.7039E+04
12	94.1972E+03	11.5911E+04	12.7627E+04	83.2625E+03	99.8451E+03	10.3402E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	16.5270E+04	28.4734E+04	37.0267E+04	16.0022E+04	26.4016E+04	33.0396E+04
4	14.0911E+04	21.3306E+04	25.0727E+04	12.9705E+04	18.2722E+04	20.4447E+04
6	11.9463E+04	18.3547E+04	18.0203E+04	10.4014E+04	13.1138E+04	13.8353E+04
8	10.1097E+04	13.3427E+04	13.3427E+04	85.1246E+03	97.0901E+03	98.5204E+03
10	85.5337E+03	10.2190E+04	10.1806E+04	64.3805E+03	73.6657E+03	74.4298E+03
12	72.3950E+03	82.7063E+03	84.1749E+03	53.0192E+03	56.7729E+03	57.0341E+03

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	90.5462E-02	99.6138E-02	99.9312E-02	10.0503E-01	10.0876E-01	10.0908E-01
4	10.0531E-01	10.1490E-01	10.1594E-01	10.4757E-01	10.4315E-01	10.3942E-01
6	10.4040E-01	10.4880E-01	10.4549E-01	11.1643E-01	10.9368E-01	10.8524E-01
8	11.0424E-01	10.9272E-01	10.8448E-01	11.8620E-01	11.5668E-01	11.4398E-01
10	11.6898E-01	11.4448E-01	11.3127E-01	12.7284E-01	12.3102E-01	12.1483E-01
12	12.4102E-01	12.0307E-01	11.8508E-01	13.6993E-01	13.1652E-01	12.9768E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2488E-01	10.2226E-01	10.2006E-01	10.4575E-01	10.3715E-01	10.3267E-01
4	10.9211E-01	10.7595E-01	10.6846E-01	11.4120E-01	11.1672E-01	11.0425E-01
6	11.8135E-01	11.5084E-01	11.3900E-01	12.6434E-01	12.2246E-01	12.0856E-01
8	12.8794E-01	12.4486E-01	12.3015E-01	14.1350E-01	13.6014E-01	13.4512E-01
10	14.1170E-01	13.5806E-01	13.4186E-01	15.9082E-01	15.2943E-01	15.1489E-01
12	15.5363E-01	14.9127E-01	14.7468E-01	17.9952E-01	17.3290E-01	17.1974E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.6792E-01	10.5364E-01	10.4708E-01	11.1655E-01	10.9173E-01	10.8163E-01
4	11.9570E-01	11.6011E-01	11.4738E-01	13.2267E-01	12.7217E-01	12.5691E-01
6	13.6104E-01	13.0983E-01	12.9503E-01	16.0046E-01	15.3630E-01	15.2210E-01
8	15.6587E-01	15.0504E-01	14.9091E-01	19.6339E-01	18.9493E-01	18.8427E-01
10	18.1573E-01	17.4996E-01	17.3785E-01	26.3037E-01	25.6356E-01	25.5634E-01
12	21.1765E-01	20.5030E-01	20.4060E-01	30.2527E-01	29.6333E-01	29.5876E-01

## MINIMUM SPECIFIC DDSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2.46 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	37.1949E+04	66.5777E+04	90.2001E+04	35.0816E+04	61.4624E+04	82.0356E+04
4	33.0725E+04	54.4469E+04	69.4393E+04	30.2803E+04	48.6337E+04	60.7707E+04
6	29.3828E+04	45.6719E+04	55.9949E+04	26.3809E+04	39.7707E+04	47.4639E+04
8	26.2604E+04	39.0771E+04	46.5565E+04	23.2059E+04	33.2560E+04	38.3396E+04
10	23.6224E+04	33.9455E+04	39.5604E+04	20.5732E+04	28.2664E+04	31.7206E+04
12	21.3744E+04	29.8409E+04	34.1685E+04	18.3534E+04	24.3298E+04	26.7243E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	33.1316E+04	56.8411E+04	74.1765E+04	31.3363E+04	52.2408E+04	67.0624E+04
4	27.6762E+04	42.9863E+04	52.2603E+04	25.3042E+04	37.9294E+04	44.8508E+04
6	23.5095E+04	39.9720E+04	39.2048E+04	20.9045E+04	28.9125E+04	32.3430E+04
8	20.2153E+04	27.5521E+04	30.6101E+04	17.5184E+04	22.7209E+04	24.4731E+04
10	17.5355E+04	22.7683E+04	24.5969E+04	14.8217E+04	18.2522E+04	19.1648E+04
12	15.3102E+04	19.0888E+04	20.2003E+04	12.6251E+04	14.9112E+04	15.5933E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	29.6833E+04	48.2700E+04	60.7562E+04	26.7505E+04	41.4880E+04	50.3289E+04
4	23.1631E+04	33.3220E+04	38.6294E+04	19.5007E+04	28.4365E+04	29.1761E+04
6	18.5867E+04	24.6561E+04	26.8668E+04	14.7375E+04	18.1778E+04	19.0497E+04
8	15.1543E+04	18.7934E+04	19.7740E+04	11.3500E+04	13.0919E+04	13.3885E+04
10	12.4862E+04	14.6950E+04	15.1377E+04	8.4089E+03	9.3267E+03	9.3267E+03
12	10.3539E+04	11.7126E+04	11.9149E+04	6.9378E+03	7.39770E+03	7.43170E+03

RECTANGULAR SLAB SOURCE = 30 IN. X 90 IN. AIR GAP = 1.0 IN. X = 0.00 Y = 0

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0910E-01	10.0950E-01	10.0901E-01	10.2271E-01	10.1678E-01	10.1644E-01
4	10.4130E-01	10.3580E-01	10.3197E-01	10.7282E-01	10.5801E-01	10.5098E-01
6	10.8627E-01	10.7292E-01	10.6464E-01	11.3756E-01	11.1034E-01	10.9872E-01
8	11.4521E-01	11.1830E-01	11.0527E-01	12.1349E-01	11.7400E-01	11.5842E-01
10	12.1002E-01	11.7069E-01	11.5295E-01	12.8967E-01	12.4849E-01	12.2973E-01
12	12.8165E-01	12.2945E-01	12.0719E-01	13.6990E-01	13.3379E-01	13.1267E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3668E-01	10.2892E-01	10.2500E-01	10.5179E-01	10.4042E-01	10.3509E-01
4	11.0743E-01	10.8504E-01	10.7566E-01	11.4711E-01	11.1802E-01	11.0683E-01
6	11.9665E-01	11.6033E-01	11.4683E-01	12.6829E-01	12.2447E-01	12.1007E-01
8	13.0231E-01	12.5400E-01	12.3791E-01	14.1503E-01	13.6027E-01	13.4492E-01
10	14.2477E-01	13.6646E-01	13.4911E-01	15.8966E-01	15.2724E-01	15.1246E-01
12	15.6511E-01	14.9857E-01	14.8108E-01	17.9530E-01	17.2792E-01	17.1462E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.6839E-01	10.5352E-01	10.4688E-01	11.0659E-01	10.8486E-01	10.7589E-01
4	11.9264E-01	11.5748E-01	11.4495E-01	13.0262E-01	12.5711E-01	12.4322E-01
6	13.5376E-01	13.0777E-01	12.8928E-01	15.7036E-01	15.1177E-01	14.9876E-01
8	15.5411E-01	14.9487E-01	14.8104E-01	19.2220E-01	18.5912E-01	18.4921E-01
10	17.9907E-01	17.3499E-01	17.2313E-01	23.7625E-01	23.1424E-01	23.0749E-01
12	20.9540E-01	20.2970E-01	20.2019E-01	29.5554E-01	28.9772E-01	28.9341E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM. I FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	33.7846E+04	60.4017E+04	81.9952E+04	32.3628E+04	56.7310E+04	75.8706E+04
4	29.8709E+04	49.4913E+04	63.4357E+04	27.8830E+04	45.0105E+04	56.4485E+04
6	26.6172E+04	41.7246E+04	51.4343E+04	24.3682E+04	36.9597E+04	44.2724E+04
8	23.8965E+04	35.8770E+04	42.9682E+04	21.5144E+04	31.0216E+04	35.8842E+04
10	21.5935E+04	31.3032E+04	36.6385E+04	19.1396E+04	26.4523E+04	29.7721E+04
12	19.6204E+04	27.6243E+04	31.7710E+04	17.1278E+04	22.8312E+04	25.1410E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	30.9643E+04	53.0220E+04	69.5668E+04	29.6087E+04	49.4689E+04	63.6098E+04
4	25.8872E+04	40.3653E+04	49.1975E+04	23.9712E+04	36.0354E+04	46.6809E+04
6	22.0577E+04	32.0063E+04	37.0221E+04	19.8603E+04	27.5610E+04	30.8500E+04
8	19.0235E+04	26.0305E+04	28.9760E+04	16.6823E+04	21.6872E+04	23.3639E+04
10	16.5448E+04	21.5606E+04	23.3287E+04	14.1409E+04	17.4499E+04	18.3363E+04
12	14.4732E+04	18.1113E+04	19.1893E+04	12.0642E+04	14.2746E+04	14.7439E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	28.3060E+04	46.1432E+04	58.1630E+04	25.8751E+04	40.2291E+04	48.8529E+04
4	22.1710E+04	32.1529E+04	37.0888E+04	18.9935E+04	25.7227E+04	28.3946E+04
6	17.8372E+04	23.6989E+04	25.0400E+04	14.3540E+04	17.7115E+04	18.5825E+04
8	14.5711E+04	18.0906E+04	19.0438E+04	11.0658E+04	12.7662E+04	13.0562E+04
10	12.0197E+04	14.1408E+04	14.8922E+04	8.2382E+03	9.4481E+03	9.9268E+03
12	9.8191E+03	11.2964E+04	11.4939E+04	67.6919E+03	72.1863E+03	72.5198E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 30 IN. X 90 IN. AIR GAP = 2.0 IN. X = 0.00 Y = 0.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1253E-01	10.1107E-01	10.0997E-01	10.2122E-01	10.1731E-01	10.1512E-01
4	10.4403E-01	10.3642E-01	10.3209E-01	10.6609E-01	10.5273E-01	10.4642E-01
6	10.8762E-01	10.7102E-01	10.6260E-01	11.2440E-01	11.0021E-01	10.8979E-01
8	11.4004E-01	11.2299E-01	11.0020E-01	11.9342E-01	11.5833E-01	11.4429E-01
10	11.9970E-01	11.6136E-01	11.4422E-01	12.7232E-01	12.2664E-01	12.0967E-01
12	12.6576E-01	12.1563E-01	11.9428E-01	13.6088E-01	13.0516E-01	12.8598E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2999E-01	10.2617E-01	10.2115E-01	10.3965E-01	10.3217E-01	10.2862E-01
4	10.9098E-01	10.7335E-01	10.6573E-01	11.2067E-01	10.9931E-01	10.9074E-01
6	11.7038E-01	11.4687E-01	11.2958E-01	12.2823E-01	11.9437E-01	11.8206E-01
8	12.6605E-01	12.2592E-01	12.1221E-01	13.6113E-01	13.1747E-01	13.0407E-01
10	13.7804E-01	13.2880E-01	13.1384E-01	15.2095E-01	14.7011E-01	14.5777E-01
12	15.0714E-01	14.5028E-01	14.3503E-01	17.1026E-01	16.5452E-01	16.4326E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.9063E-01	10.4153E-01	10.3712E-01	10.7723E-01	10.6478E-01	10.5912E-01
4	11.5594E-01	11.3113E-01	11.2184E-01	12.4445E-01	12.1536E-01	12.0342E-01
6	12.9911E-01	12.6160E-01	12.5034E-01	14.8337E-01	14.4058E-01	14.3078E-01
8	14.8074E-01	14.3672E-01	14.2365E-01	18.0265E-01	17.5493E-01	17.4723E-01
10	17.0503E-01	16.5407E-01	16.4430E-01	22.1793E-01	21.6993E-01	21.6458E-01
12	19.7782E-01	19.2467E-01	19.1679E-01	27.4991E-01	27.0440E-01	27.0094E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ. CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	39.3470E+04	54.5059E+04	74.2982E+04	29.3828E+04	51.0274E+04	69.6205E+04
4	26.9610E+04	45.0184E+04	58.0162E+04	25.5191E+04	41.4984E+04	52.2816E+04
6	24.1589E+04	38.2007E+04	47.3470E+04	22.4466E+04	34.2891E+04	41.2437E+04
8	21.8024E+04	33.0211E+04	39.7518E+04	19.9172E+04	28.9152E+04	33.5687E+04
10	19.7923E+04	28.9386E+04	34.0508E+04	17.7931E+04	24.7477E+04	27.9396E+04
12	18.0574E+04	25.6333E+04	29.6097E+04	15.9793E+04	21.4251E+04	23.6541E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	28.3860E+04	48.9929E+04	64.5748E+04	27.3801E+04	46.1001E+04	59.5347E+04
4	23.9805E+04	37.6434E+04	46.0498E+04	22.4377E+04	33.9267E+04	40.3015E+04
6	20.5732E+04	30.0254E+04	34.8130E+04	18.7200E+04	26.0753E+04	29.2659E+04
8	17.8304E+04	24.3204E+04	27.3581E+04	15.7968E+04	20.6080E+04	22.2506E+04
10	15.5657E+04	20.3733E+04	22.0832E+04	13.4346E+04	16.6253E+04	17.4662E+04
12	13.6629E+04	17.1565E+04	18.2021E+04	11.4910E+04	13.6278E+04	14.0848E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	26.3801E+04	43.7440E+04	54.8557E+04	24.4401E+04	38.2826E+04	46.6453E+04
4	20.9395E+04	30.5195E+04	35.2815E+04	18.1813E+04	24.7345E+04	27.3361E+04
6	16.9631E+04	22.6123E+04	24.6845E+04	13.8425E+04	17.1102E+04	17.9600E+04
8	13.9155E+04	17.3171E+04	18.2435E+04	10.7083E+04	12.3655E+04	12.6490E+04
10	11.5117E+04	13.9579E+04	14.0063E+04	8.6265E+04	92.1243E+03	93.0874E+03
12	95.8010E+03	10.8914E+04	11.0490E+04	65.7313E+03	70.1211E+03	70.4480E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 30 IN. X 90 IN. AIR GAP = 3.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1166E-01	10.1014E-01	10.0910E-01	10.1711E-01	10.1428E-01	10.1264E-01
4	10.3987E-01	10.3296E-01	10.2908E-01	10.5507E-01	10.4485E-01	10.3983E-01
6	10.7889E-01	10.6415E-01	10.5660E-01	11.0598E-01	10.8675E-01	10.7814E-01
8	11.2609E-01	11.0208E-01	10.9057E-01	11.6735E-01	11.3868E-01	11.2609E-01
10	11.8010E-01	11.4594E-01	11.3043E-01	12.3829E-01	12.0024E-01	11.8570E-01
12	12.4013E-01	11.9528E-01	11.7588E-01	13.1847E-01	12.7137E-01	12.5475E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2233E-01	10.1881E-01	10.1682E-01	10.2816E-01	10.2424E-01	10.2202E-01
4	10.7256E-01	10.6040E-01	10.5482E-01	10.9434E-01	10.8065E-01	10.7472E-01
6	11.4125E-01	11.1950E-01	11.1077E-01	11.8748E-01	11.6378E-01	11.5927E-01
8	12.2610E-01	11.9529E-01	11.8432E-01	13.0567E-01	12.7355E-01	12.6365E-01
10	13.2682E-01	12.8792E-01	12.7567E-01	14.4980E-01	14.1114E-01	14.0138E-01
12	14.4386E-01	13.9802E-01	13.8533E-01	16.2188E-01	15.7847E-01	15.6940E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3505E-01	10.3081E-01	10.2838E-01	10.5286E-01	10.4784E-01	10.4496E-01
4	11.2126E-01	11.0607E-01	10.9991E-01	11.9182E-01	11.7355E-01	11.6721E-01
6	12.4581E-01	12.2041E-01	12.1234E-01	14.0173E-01	13.7361E-01	13.6681E-01
8	14.0795E-01	13.7502E-01	13.6673E-01	16.8826E-01	16.5508E-01	16.4951E-01
10	16.1074E-01	15.7297E-01	15.6551E-01	20.6457E-01	20.3002E-01	20.2603E-01
12	18.5910E-01	18.1873E-01	18.1253E-01	25.4901E-01	25.1546E-01	25.1282E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ. CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	27.2885E+04	49.2880E+04	67.4822E+04	26.6172E+04	47.2869E+04	63.8333E+04
4	24.4072E+04	41.0708E+04	53.2064E+04	23.3385E+04	38.2527E+04	40.4246E+04
6	21.9994E+04	35.0784E+04	43.7063E+04	20.6697E+04	31.8181E+04	38.6362E+04
8	19.9542E+04	30.4778E+04	36.8731E+04	18.4411E+04	26.9625E+04	31.4181E+04
10	18.1942E+04	26.8221E+04	31.7064E+04	16.5464E+04	23.1645E+04	26.2348E+04
12	16.6636E+04	23.6431E+04	27.6586E+04	14.9142E+04	20.1168E+04	22.2606E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	25.8936E+04	45.0332E+04	59.6568E+04	25.1389E+04	42.7091E+04	55.4394E+04
4	22.1371E+04	35.0169E+04	43.0180E+04	20.8870E+04	31.8092E+04	37.9154E+04
6	19.1396E+04	28.1166E+04	32.7252E+04	17.5703E+04	24.6066E+04	27.6824E+04
8	16.6803E+04	23.0673E+04	25.8015E+04	14.8086E+04	19.5312E+04	21.1215E+04
10	14.6236E+04	19.2321E+04	20.8806E+04	12.7302E+04	15.8061E+04	16.6423E+04
12	12.8798E+04	16.2398E+04	17.2542E+04	10.9222E+04	12.9878E+04	13.4328E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	24.3682E+04	40.4120E+04	51.3993E+04	22.8206E+04	36.0777E+04	44.1508E+04
4	19.6479E+04	28.8067E+04	33.3950E+04	17.2475E+04	23.6067E+04	26.1352E+04
6	16.0438E+04	21.4799E+04	23.4884E+04	13.2571E+04	16.4303E+04	17.2597E+04
8	13.2321E+04	16.5169E+04	17.4171E+04	10.3055E+04	11.9182E+04	12.1992E+04
10	10.9871E+04	12.9955E+04	13.4051E+04	8.07312E+03	8.90150E+03	8.9.929E+03
12	9.16874E+03	10.4070E+04	10.3254E+04	63.5917E+03	67.8770E+03	68.1975E+03



RECTANGULAR SLAB SOURCE = 36 IN. X 90 IN.

AIR GAP = 4.0 IN.

X = 0.00 Y = 0

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1017E-01	10.0889E-01	10.0803E-01	10.1351E-01	10.1162E-01	10.1046E-01
4	10.3499E-01	10.2919E-01	10.2587E-01	10.4535E-01	10.3788E-01	10.3400E-01
6	10.6973E-01	10.5718E-01	10.5060E-01	10.8958E-01	10.7476E-01	10.6783E-01
8	11.1216E-01	10.9142E-01	10.8125E-01	11.4400E-01	11.2113E-01	11.1131E-01
10	11.6103E-01	11.3118E-01	11.1734E-01	12.0757E-01	11.7657E-01	11.6228E-01
12	12.1559E-01	11.7605E-01	11.5860E-01	12.8021E-01	12.4102E-01	12.2677E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1639E-01	10.1455E-01	10.1336E-01	10.1960E-01	10.1817E-01	10.1708E-01
4	10.5740E-01	10.4963E-01	10.4574E-01	10.7319E-01	10.6550E-01	10.6172E-01
6	11.1653E-01	11.0130E-01	10.9476E-01	11.5350E-01	11.3818E-01	11.3221E-01
8	11.9158E-01	11.6879E-01	11.6023E-01	12.5843E-01	12.3609E-01	12.2891E-01
10	12.8202E-01	12.5220E-01	12.4238E-01	13.8837E-01	13.6021E-01	13.5274E-01
12	13.8810E-01	13.5203E-01	13.4166E-01	15.4487E-01	15.1224E-01	15.0512E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2362E-01	10.2275E-01	10.2176E-01	10.3508E-01	10.3523E-01	10.3440E-01
4	10.9364E-01	10.8597E-01	10.8231E-01	11.5003E-01	11.4181E-01	11.3834E-01
6	12.0170E-01	11.8622E-01	11.8082E-01	13.3453E-01	13.1837E-01	13.1408E-01
8	13.4638E-01	13.2447E-01	13.1857E-01	15.9222E-01	15.7117E-01	15.6740E-01
10	15.2991E-01	15.0343E-01	14.9790E-01	19.3422E-01	19.1105E-01	19.0823E-01
12	17.5638E-01	17.2707E-01	17.2236E-01	23.7681E-01	23.5347E-01	23.5155E-01

## MINIMUM SPECIFIC DDSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	24.6389E+04	44.7439E+04	61.5178E+04	24.1589E+04	43.2158E+04	58.6168E+04
4	22.1829E+04	37.6008E+04	48.9548E+04	21.3744E+04	35.3059E+04	44.9093E+04
6	20.1050E+04	32.3122E+04	40.4622E+04	19.0569E+04	29.5581E+04	35.8600E+04
8	18.3218E+04	28.2096E+04	34.2926E+04	17.0911E+04	25.1671E+04	29.4354E+04
10	16.7739E+04	24.9239E+04	29.5942E+04	15.4011E+04	21.7029E+04	24.6574E+04
12	15.4180E+04	22.2296E+04	25.8934E+04	13.9321E+04	18.9051E+04	20.9831E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	23.6224E+04	41.4155E+04	55.1467E+04	23.0465E+04	39.5029E+04	51.5472E+04
4	20.4229E+04	32.5898E+04	40.1713E+04	19.4005E+04	29.7650E+04	35.6188E+04
6	17.7931E+04	26.3181E+04	30.7366E+04	16.4563E+04	23.1831E+04	28.1480E+04
8	15.5942E+04	21.6926E+04	24.3276E+04	14.0447E+04	18.4847E+04	20.0244E+04
10	13.7313E+04	18.1498E+04	19.7498E+04	12.0443E+04	15.0091E+04	15.8214E+04
12	12.1369E+04	15.3690E+04	16.3532E+04	10.3686E+04	12.3652E+04	12.7986E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	22.4446E+04	37.5708E+04	48.0333E+04	21.2009E+04	33.8388E+04	41.6067E+04
4	18.3534E+04	27.1118E+04	31.9289E+04	16.2932E+04	22.4283E+04	24.8822E+04
6	15.1263E+04	20.3517E+04	22.2999E+04	12.6378E+04	15.7142E+04	18.5212E+04
8	12.5481E+04	15.7183E+04	16.5930E+04	9.7907E+03	11.4470E+04	11.7175E+04
10	10.4625E+04	12.4067E+04	12.8058E+04	77.6799E+03	85.7500E+03	86.8679E+03
12	87.5842E+03	99.5995E+03	10.1439E+04	61.3512E+03	65.5327E+03	65.8469E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 30 IN. X 90 IN. AIR GAP = 5.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0879E-01	10.0777E-01	10.0706E-01	10.1074E-01	10.0953E-01	10.0872E-01
4	10.2054E-01	10.2587E-01	10.2304E-01	10.3755E-01	10.3221E-01	10.2925E-01
6	10.6169E-01	10.5108E-01	10.4536E-01	10.7610E-01	10.6483E-01	10.5928E-01
8	10.9997E-01	10.8212E-01	10.7313E-01	11.2448E-01	11.0640E-01	10.9829E-01
10	11.4435E-01	11.1831E-01	11.0596E-01	11.8179E-01	11.5653E-01	11.4617E-01
12	11.9413E-01	11.5928E-01	11.4358E-01	12.4759E-01	12.1515E-01	12.0297E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1205E-01	10.1134E-01	10.1072E-01	10.1347E-01	10.1368E-01	10.1338E-01
4	10.4558E-01	10.4111E-01	10.3854E-01	10.5683E-01	10.5363E-01	10.5153E-01
6	10.9657E-01	10.8650E-01	10.8176E-01	11.2618E-01	11.1750E-01	11.1359E-01
8	11.6310E-01	11.4686E-01	11.4033E-01	12.1959E-01	12.0523E-01	12.0015E-01
10	12.4453E-01	12.2227E-01	12.1452E-01	13.3712E-01	13.1771E-01	13.1217E-01
12	13.4096E-01	13.1317E-01	13.0480E-01	14.7997E-01	14.5645E-01	14.5100E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1546E-01	10.1681E-01	10.1686E-01	10.2230E-01	10.2595E-01	10.2660E-01
4	10.7227E-01	10.7026E-01	10.6857E-01	11.1747E-01	11.1695E-01	11.1576E-01
6	11.6624E-01	11.5863E-01	11.5541E-01	12.8035E-01	12.7378E-01	12.7153E-01
8	12.9579E-01	12.8289E-01	12.7898E-01	15.1331E-01	15.0219E-01	14.9992E-01
10	14.6256E-01	14.4547E-01	14.4159E-01	18.7584E-01	18.1211E-01	18.1028E-01
12	16.7000E-01	16.4999E-01	16.4655E-01	22.327E-01	22.1769E-01	22.1637E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	22.3507E+04	40.7894E+04	56.2977E+04	21.9994E+04	39.6002E+04	53.9531E+04
4	20.2632E+04	34.5449E+04	45.1871E+04	19.6204E+04	32.6496E+04	41.7228E+04
6	18.4390E+04	29.8550E+04	37.5638E+04	17.6008E+04	27.5014E+04	33.5060E+04
8	16.8757E+04	26.1810E+04	31.9728E+04	15.8633E+04	23.5225E+04	27.6136E+04
10	15.5080E+04	23.2168E+04	27.6860E+04	14.3529E+04	20.3576E+04	23.2019E+04
12	14.3018E+04	20.7717E+04	24.2919E+04	13.0292E+04	17.7855E+04	19.7930E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	21.5935E+04	38.1399E+04	51.0343E+04	21.1466E+04	36.5476E+04	47.9334E+04
4	18.8563E+04	30.2940E+04	37.9381E+04	18.0117E+04	27.8400E+04	33.4468E+04
6	16.5464E+04	24.6436E+04	28.0809E+04	15.4004E+04	21.8290E+04	24.6868E+04
8	14.5807E+04	20.4048E+04	22.9449E+04	13.2194E+04	17.4835E+04	18.9743E+04
10	12.8944E+04	17.1317E+04	18.6800E+04	11.3862E+04	14.2442E+04	15.0333E+04
12	11.4377E+04	14.5475E+04	15.9027E+04	98.3639E+03	11.7669E+04	12.1886E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	20.6697E+04	34.9067E+04	44.8553E+04	19.6599E+04	31.6714E+04	39.1282E+04
4	17.1278E+04	25.4839E+04	29.7337E+04	15.3453E+04	21.2523E+04	23.6312E+04
6	14.2369E+04	19.2502E+04	21.1378E+04	12.0116E+04	14.9901E+04	15.7759E+04
8	11.8802E+04	14.9380E+04	15.7884E+04	94.4482E+03	10.9679E+04	11.2321E+04
10	99.4862E+03	11.8032E+04	12.2191E+04	74.5682E+03	82.4260E+03	83.3243E+03
12	83.5614E+03	95.2190E+03	97.0156E+03	59.0694E+03	63.1484E+03	63.4564E+03

CODALY 69 SOURCE

RECTANGULAR SLAB SOURCE = 30 IN. X 90 IN. AIR GAP = 6.0 IN. K = C.O.D. Y = 2

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES					
	2	4	6	2	4	6
2	10.0764E-01	10.0683E-01	10.0625E-01	10.0865E-01	10.0791E-01	10.0730E-01
4	10.2700E-01	10.2306E-01	10.2065E-01	10.3140E-01	10.2765E-01	10.2541E-01
6	10.5490E-01	10.5090E-01	10.4900E-01	10.6516E-01	10.5670E-01	10.5226E-01
8	10.8961E-01	10.7610E-01	10.6622E-01	11.0856E-01	10.9417E-01	10.8740E-01
10	11.3011E-01	11.0739E-01	10.9623E-01	11.6014E-01	11.3973E-01	11.3101E-01
12	11.7573E-01	11.4489E-01	11.3071E-01	12.2007E-01	11.9330E-01	11.8200E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES					
	2	4	6	2	4	6
2	10.0889E-01	10.0891E-01	10.0870E-01	10.0905E-01	10.1632E-01	10.1059E-01
4	10.2643E-01	10.2439E-01	10.2284E-01	10.4448E-01	10.4632E-01	10.4392E-01
6	10.6056E-01	10.7452E-01	10.7123E-01	11.6427E-01	11.6000E-01	10.9857E-01
8	11.3974E-01	11.2880E-01	11.2395E-01	11.8772E-01	11.7985E-01	11.7659E-01
10	12.1333E-01	11.9732E-01	11.9133E-01	12.9446E-01	12.8231E-01	12.7841E-01
12	13.0133E-01	12.8048E-01	12.7382E-01	14.2541E-01	14.0956E-01	14.0555E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES					
	2	4	6	2	4	6
2	10.0961E-01	10.1239E-01	10.1318E-01	10.1302E-01	10.1944E-01	10.2077E-01
4	10.5570E-01	10.5794E-01	10.5770E-01	10.9170E-01	10.9738E-01	10.9801E-01
6	11.3770E-01	11.3655E-01	11.3492E-01	12.3647E-01	12.3762E-01	12.3707E-01
8	12.5621E-01	12.6867E-01	12.6644E-01	14.4825E-01	14.4532E-01	14.4430E-01
10	14.0644E-01	13.9718E-01	13.9470E-01	17.3549E-01	17.2965E-01	17.2865E-01
12	15.9736E-01	15.8521E-01	15.8287E-01	21.1123E-01	21.0365E-01	21.0266E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES					
	2	4	6	2	4	6
2	20.3671E+04	37.3352E+04	51.7112E+04	20.1050E+04	36.3941E+04	49.7895E+04
4	18.5670E+04	31.8433E+04	41.8358E+04	18.0574E+04	30.2578E+04	38.8384E+04
6	16.9681E+04	27.6844E+04	36.9651E+04	16.2899E+04	26.6325E+04	31.3579E+04
8	15.5902E+04	24.3607E+04	29.8805E+04	14.7682E+04	22.0193E+04	25.9616E+04
10	14.3760E+04	21.6767E+04	25.4569E+04	13.3954E+04	19.1208E+04	21.8603E+04
12	13.2986E+04	19.4505E+04	22.8350E+04	12.2004E+04	16.7522E+04	18.6922E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES					
	2	4	6	2	4	6
2	19.7923E+04	35.1933E+04	47.3075E+04	19.4399E+04	33.4520E+04	44.6135E+04
4	17.4359E+04	28.2189E+04	35.1154E+04	16.7311E+04	26.0602E+04	31.4201E+04
6	15.9011E+04	23.0943E+04	27.1590E+04	14.4121E+04	20.5550E+04	23.3098E+04
8	13.6415E+04	19.2053E+04	21.6545E+04	12.4399E+04	16.5350E+04	17.9787E+04
10	12.1142E+04	16.1789E+04	17.6774E+04	10.7618E+04	13.5162E+04	14.2829E+04
12	10.7830E+04	13.7759E+04	14.7031E+04	93.2911E+03	11.1951E+04	11.6062E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES					
	2	4	6	2	4	6
2	19.0569E+04	32.4467E+04	41.8989E+04	16.2279E+04	29.6230E+04	36.7694E+04
4	15.9793E+04	23.9457E+04	28.0330E+04	14.4299E+04	20.1089E+04	22.4132E+04
6	13.3898E+04	18.2089E+04	20.0297E+04	11.3952E+04	14.2763E+04	15.0411E+04
8	11.2382E+04	14.1880E+04	15.0136E+04	90.1341E+03	10.4921E+04	10.7500E+04
10	94.5217E+03	11.2730E+04	11.6519E+04	71.4637E+03	79.1120E+03	79.9810E+03
12	79.6641E+03	90.9741E+03	92.7286E+03	56.7898E+03	60.7679E+03	61.0699E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 30 IN. X 90 IN. AIR GAP = 7.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0670E-01	10.6805E-01	10.0558E-01	10.0707E-01	10.0664E-01	10.0628E-01
4	10.2398E-01	10.2070E-01	10.1864E-01	10.2652E-01	10.2396E-01	10.2230E-01
6	10.4920E-01	10.4452E-01	10.3713E-01	10.5627E-01	10.4999E-01	10.4647E-01
8	10.8085E-01	10.6743E-01	10.6034E-01	10.9500E-01	10.8396E-01	10.7847E-01
10	11.1797E-01	10.9789E-01	10.8792E-01	11.4197E-01	11.2537E-01	11.1824E-01
12	11.5995E-01	11.3254E-01	11.1968E-01	11.9676E-01	11.7475E-01	11.6589E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0656E-01	10.0706E-01	10.0713E-01	10.0583E-01	10.0777E-01	10.0844E-01
4	10.2927E-01	10.2902E-01	10.2827E-01	10.3430E-01	10.3692E-01	10.3714E-01
6	10.6762E-01	10.6473E-01	10.6263E-01	10.8654E-01	10.8719E-01	10.8635E-01
8	11.2046E-01	11.1382E-01	11.1038E-01	11.6138E-01	11.5882E-01	11.5697E-01
10	11.8721E-01	11.7639E-01	11.7189E-01	12.5870E-01	12.5626E-01	12.5013E-01
12	12.6781E-01	12.5283E-01	12.4765E-01	13.7925E-01	13.6989E-01	13.6712E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0533E-01	10.0905E-01	10.1036E-01	10.0620E-01	10.1379E-01	10.1632E-01
4	10.4271E-01	10.4815E-01	10.4922E-01	10.7175E-01	10.8176E-01	10.8386E-01
6	11.1452E-01	11.1817E-01	11.1822E-01	12.0056E-01	12.0801E-01	12.0887E-01
8	12.1974E-01	12.2027E-01	12.1946E-01	13.9409E-01	13.9798E-01	13.9804E-01
10	13.5932E-01	13.5664E-01	13.5536E-01	16.5947E-01	16.6029E-01	16.6001E-01
12	15.3583E-01	15.3037E-01	15.2897E-01	20.0850E-01	20.0707E-01	20.0674E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/50.CH.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES :

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	18.6377E+04	34.3017E+04	47.6621E+04	18.4390E+04	33.5464E+04	46.0675E+04
4	17.0502E+04	29.4444E+04	38.8425E+04	16.6636E+04	28.1034E+04	36.2259E+04
6	15.6639E+04	25.7039E+04	32.6264E+04	15.1074E+04	23.9341E+04	29.3970E+04
8	14.4431E+04	22.7216E+04	27.6871E+04	13.7360E+04	20.6424E+04	24.4068E+04
10	13.3604E+04	20.2829E+04	24.3851E+04	12.5211E+04	17.9840E+04	20.6236E+04
12	12.3942E+04	18.2497E+04	21.5058E+04	11.4399E+04	15.7984E+04	17.6739E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	18.1942E+04	32.5672E+04	43.9366E+04	17.9123E+04	31.4063E+04	41.5192E+04
4	16.1520E+04	26.3239E+04	32.8923E+04	15.5884E+04	24.4068E+04	31.2455E+04
6	14.3529E+04	21.6658E+04	25.5661E+04	13.4940E+04	19.3640E+04	22.0198E+04
8	12.7745E+04	18.0917E+04	20.4539E+04	11.7091E+04	15.6422E+04	17.0403E+04
10	11.3895E+04	15.2900E+04	16.7406E+04	10.1719E+04	12.8276E+04	13.5725E+04
12	10.1719E+04	13.0533E+04	13.9535E+04	80.4838E+03	10.6525E+04	11.0530E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	17.6008E+04	30.1923E+04	39.1693E+04	16.9129E+04	27.7118E+04	34.5531E+04
4	16.9142E+04	26.5062E+04	26.4362E+04	13.5605E+04	19.0148E+04	21.2455E+04
6	12.5915E+04	17.2173E+04	18.9791E+04	10.7988E+04	13.5838E+04	14.3280E+04
8	10.6273E+04	13.4722E+04	14.2743E+04	85.9181E+03	10.0268E+04	10.2785E+04
10	89.7699E+03	10.7389E+04	11.1081E+04	68.4130E+03	75.8553E+03	76.7154E+03
12	75.9192E+03	86.8921E+03	88.6057E+03	54.5432E+03	58.4222E+03	58.7182E+03

COBALT 60 SOURCE

RECTANGULAR SLAD SOURCE = 30 IN. X 120 IN. AIR GAP = 0.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	98.6201E-02	99.6506E-02	99.9500E-02	10.0527E-01	10.0888E-01	10.0914E-01
4	10.9685E-01	10.1530E-01	10.1601E-01	10.4807E-01	10.4322E-01	10.3932E-01
6	10.4889E-01	10.4804E-01	10.4435E-01	11.1058E-01	10.9318E-01	10.8447E-01
8	11.0238E-01	10.8973E-01	10.8104E-01	11.8536E-01	11.5906E-01	11.4196E-01
10	11.6390E-01	11.3932E-01	11.2458E-01	12.7858E-01	12.2770E-01	12.1077E-01
12	12.3198E-01	11.9289E-01	11.7421E-01	13.6577E-01	13.1102E-01	12.9137E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2496E-01	10.2229E-01	10.2007E-01	10.4577E-01	10.3715E-01	10.3257E-01
4	10.9225E-01	10.7593E-01	10.6837E-01	11.4129E-01	11.1470E-01	11.0420E-01
6	11.0132E-01	11.5050E-01	11.3857E-01	12.6431E-01	12.2232E-01	12.0836E-01
8	12.8752E-01	12.4405E-01	12.2909E-01	14.1331E-01	13.5976E-01	13.4465E-01
10	14.1046E-01	13.5644E-01	13.3986E-01	15.4036E-01	14.8668E-01	14.7396E-01
12	15.5171E-01	14.8850E-01	14.7141E-01	17.9667E-01	17.3161E-01	17.1822E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.6793E-01	10.5364E-01	10.4708E-01	11.1655E-01	10.9173E-01	10.8163E-01
4	11.9570E-01	11.6009E-01	11.4735E-01	13.2266E-01	12.7217E-01	12.5691E-01
6	13.0102E-01	13.0977E-01	12.9494E-01	14.0045E-01	13.5629E-01	13.2217E-01
8	15.6378E-01	15.0486E-01	14.9070E-01	17.6337E-01	16.9490E-01	16.8424E-01
10	18.1553E-01	17.4495E-01	17.3745E-01	24.3034E-01	23.3500E-01	23.1628E-01
12	21.1728E-01	20.4974E-01	20.3994E-01	30.2521E-01	29.6323E-01	29.5865E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/50 CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	37.2025E+04	66.7454E+04	90.6787E+04	35.0842E+04	61.5157E+04	82.1889E+04
4	33.1425E+04	54.8812E+04	70.3573E+04	30.3027E+04	48.7745E+04	61.0726E+04
6	29.5429E+04	46.2959E+04	57.1477E+04	26.4315E+04	39.9739E+04	47.8447E+04
8	26.5036E+04	39.8306E+04	47.8351E+04	23.2832E+04	33.5041E+04	38.7587E+04
10	23.9333E+04	33.7851E+04	40.9013E+04	20.6732E+04	28.5426E+04	32.1530E+04
12	21.7387E+04	30.7359E+04	35.5291E+04	18.4718E+04	24.6228E+04	27.1546E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	33.1325E+04	56.6571E+04	74.2217E+04	31.3366E+04	52.2495E+04	67.0753E+04
4	27.6831E+04	43.0276E+04	52.3473E+04	25.3063E+04	37.9409E+04	44.8745E+04
6	23.5246E+04	34.0311E+04	39.3124E+04	20.9088E+04	28.9288E+04	32.3714E+04
8	20.2380E+04	27.8228E+04	30.7256E+04	17.5248E+04	22.7398E+04	24.5029E+04
10	17.5646E+04	22.8459E+04	24.7121E+04	14.8298E+04	18.2726E+04	19.1940E+04
12	15.3445E+04	19.1699E+04	20.3129E+04	12.8346E+04	14.9322E+04	15.4209E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	29.6834E+04	48.2713E+04	60.7598E+04	26.7505E+04	41.4881E+04	50.3292E+04
4	23.1637E+04	33.5251E+04	38.6357E+04	19.5007E+04	26.4387E+04	29.1765E+04
6	18.5880E+04	24.6604E+04	28.6721E+04	14.7377E+04	18.1782E+04	19.0701E+04
8	15.1581E+04	18.7984E+04	19.7814E+04	11.3501E+04	13.1922E+04	13.3889E+04
10	12.4884E+04	14.7002E+04	15.1448E+04	88.4105E+03	97.3309E+03	98.3303E+03
12	10.3614E+04	11.7178E+04	11.9214E+04	69.3801E+03	73.9802E+03	74.3207E+03



RECTANGULAR SLAB SOURCE = 30 IN. X120 IN. AIR GAP = 2.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1208E-01	10.1059E-01	10.0951E-01	10.2087E-01	10.1700E-01	10.1483E-01
4	10.4203E-01	10.3458E-01	10.3034E-01	10.6491E-01	10.5170E-01	10.4542E-01
6	10.8324E-01	10.6706E-01	10.5677E-01	11.2205E-01	10.9803E-01	10.8739E-01
8	11.3252E-01	11.0617E-01	10.9348E-01	11.8956E-01	11.5455E-01	11.4036E-01
10	11.8863E-01	11.5096E-01	11.3382E-01	12.6655E-01	12.2077E-01	12.0347E-01
12	12.5037E-01	12.0089E-01	11.7942E-01	13.5275E-01	12.9663E-01	12.7692E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2996E-01	10.2413E-01	10.2110E-01	10.4007E-01	10.3243E-01	10.2862E-01
4	10.9079E-01	10.7311E-01	10.6545E-01	11.2145E-01	10.9980E-01	10.9111E-01
6	11.6986E-01	11.4022E-01	11.2882E-01	12.2925E-01	11.9498E-01	11.8331E-01
8	12.6501E-01	12.2461E-01	12.1068E-01	13.6229E-01	13.1811E-01	13.0529E-01
10	13.7626E-01	13.2653E-01	13.1122E-01	15.2213E-01	14.7063E-01	14.5802E-01
12	15.0433E-01	14.4671E-01	14.3099E-01	17.1134E-01	16.5477E-01	16.4321E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.5150E-01	10.4209E-01	10.3757E-01	10.7889E-01	10.6386E-01	10.6002E-01
4	11.5755E-01	11.3222E-01	11.2278E-01	12.4728E-01	12.1544E-01	12.0530E-01
6	13.0134E-01	12.6323E-01	12.5179E-01	14.8729E-01	14.4376E-01	14.3379E-01
8	14.8355E-01	14.3686E-01	14.2561E-01	18.0783E-01	17.5940E-01	17.5159E-01
10	17.0842E-01	16.5674E-01	16.4688E-01	22.2462E-01	21.7596E-01	21.7054E-01
12	19.8180E-01	19.2788E-01	19.1983E-01	27.5863E-01	27.1233E-01	27.0882E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CH.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	30.5749E+04	55.1175E+04	75.3766E+04	29.5429E+04	52.1885E+04	70.2012E+04
4	27.2776E+04	45.8293E+04	59.3754E+04	25.7038E+04	41.9078E+04	52.9205E+04
6	24.5407E+04	39.1245E+04	48.8305E+04	22.6456E+04	34.7202E+04	41.8930E+04
8	22.2327E+04	34.0108E+04	41.2808E+04	20.1292E+04	29.3540E+04	36.2049E+04
10	20.2591E+04	29.4652E+04	35.5821E+04	18.0127E+04	25.1855E+04	28.5502E+04
12	18.5517E+04	26.6775E+04	31.1173E+04	16.2040E+04	21.8562E+04	24.2327E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	28.4961E+04	49.1692E+04	64.8290E+04	27.4550E+04	46.2231E+04	59.6961E+04
4	24.0845E+04	37.8391E+04	46.3278E+04	22.4950E+04	34.0214E+04	40.4217E+04
6	20.6732E+04	30.2100E+04	35.0882E+04	18.7681E+04	24.1525E+04	29.3643E+04
8	17.9272E+04	24.6950E+04	27.5912E+04	15.8392E+04	20.6751E+04	22.3336E+04
10	15.6598E+04	20.5380E+04	22.2449E+04	13.4730E+04	16.6848E+04	17.5574E+04
12	13.7546E+04	17.3115E+04	18.3938E+04	11.5264E+04	13.6810E+04	14.1463E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	28.4315E+04	43.4173E+04	54.9442E+04	24.4629E+04	38.3102E+04	46.6751E+04
4	20.9705E+04	30.5639E+04	35.3347E+04	18.1702E+04	24.7451E+04	27.3476E+04
6	16.9857E+04	22.6647E+04	24.7249E+04	13.8473E+04	17.1160E+04	17.9463E+04
8	13.9336E+04	17.3427E+04	18.2733E+04	10.7119E+04	12.3493E+04	12.6530E+04
10	11.5270E+04	13.6072E+04	14.0104E+04	83.6694E+03	92.1519E+03	93.1115E+03
12	95.9336E+03	10.8741E+04	11.0489E+04	65.7490E+03	70.1421E+03	70.4898E+03

RECTANGULAR SLAB SOURCE = 30 IN. X120 IN. AER GAP = 3.0 IN. X = 0.00 Y = 0.

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1108E-01	10.0961E-01	10.0862E-01	10.1688E-01	10.1408E-01	10.1244E-01
4	10.3779E-01	10.3114E-01	10.2737E-01	10.5428E-01	10.4410E-01	10.3907E-01
6	10.7465E-01	10.6037E-01	10.5296E-01	11.0631E-01	10.8907E-01	10.7640E-01
8	11.1909E-01	10.9568E-01	10.8428E-01	11.6445E-01	11.3565E-01	11.2362E-01
10	11.6976E-01	11.3624E-01	11.2077E-01	12.3377E-01	11.9599E-01	11.8049E-01
12	12.2583E-01	11.8159E-01	11.6212E-01	13.1191E-01	12.6419E-01	12.4703E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2270E-01	10.1904E-01	10.1699E-01	10.2927E-01	10.2498E-01	10.2259E-01
4	10.7331E-01	10.6081E-01	10.5507E-01	10.9671E-01	10.8223E-01	10.7602E-01
6	11.4220E-01	11.1990E-01	11.1092E-01	11.9089E-01	11.6614E-01	11.5729E-01
8	12.2703E-01	11.9544E-01	11.8412E-01	13.1000E-01	12.7663E-01	12.6654E-01
10	13.2748E-01	12.8757E-01	12.7487E-01	14.5494E-01	14.1487E-01	14.0470E-01
12	14.4401E-01	13.9687E-01	13.8362E-01	16.2775E-01	15.8277E-01	15.7328E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3696E-01	10.3208E-01	10.2939E-01	10.5634E-01	10.5013E-01	10.4655E-01
4	11.2514E-01	11.0877E-01	11.0223E-01	11.9820E-01	11.7826E-01	11.7146E-01
6	12.5138E-01	12.2457E-01	12.1610E-01	14.1080E-01	13.8095E-01	13.7380E-01
8	14.1518E-01	13.8072E-01	13.7207E-01	17.0034E-01	16.6552E-01	16.5970E-01
10	16.1971E-01	15.8036E-01	15.7298E-01	20.8024E-01	20.4421E-01	20.4005E-01
12	18.6994E-01	18.2797E-01	18.2150E-01	25.6906E-01	25.3419E-01	25.3145E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	27.6480E+04	50.1136E+04	68.8313E+04	26.8950E+04	47.8446E+04	64.6683E+04
4	24.8285E+04	42.0336E+04	54.7438E+04	23.6181E+04	38.8074E+04	49.2408E+04
6	22.4656E+04	36.1152E+04	45.3138E+04	20.9495E+04	32.3632E+04	39.2185E+04
8	20.4534E+04	31.5541E+04	36.4928E+04	18.7201E+04	27.4939E+04	32.1587E+04
10	18.7177E+04	27.9163E+04	33.3034E+04	16.8237E+04	23.6791E+04	26.9244E+04
12	17.2050E+04	24.9407E+04	29.2177E+04	15.1893E+04	20.6124E+04	22.9163E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	26.1058E+04	45.4045E+04	60.1623E+04	25.2993E+04	42.9571E+04	55.7493E+04
4	22.3166E+04	39.3223E+04	43.4238E+04	20.9996E+04	31.9764E+04	38.1200E+04
6	19.2987E+04	28.3830E+04	33.0737E+04	17.6578E+04	24.7347E+04	27.8368E+04
8	16.8252E+04	23.3059E+04	26.1055E+04	14.9808E+04	19.6355E+04	21.2448E+04
10	14.7579E+04	19.4485E+04	21.1526E+04	12.7922E+04	15.8943E+04	16.7438E+04
12	13.0057E+04	16.4374E+04	17.4910E+04	10.9768E+04	13.0638E+04	13.9180E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	24.4886E+04	40.5795E+04	51.5943E+04	22.8873E+04	36.1574E+04	44.2358E+04
4	19.7075E+04	28.8992E+04	33.5087E+04	17.2132E+04	23.6362E+04	26.1643E+04
6	16.0909E+04	21.3419E+04	23.5584E+04	13.2701E+04	16.4432E+04	17.2743E+04
8	13.2671E+04	16.3626E+04	17.4488E+04	10.3134E+04	11.5272E+04	12.2048E+04
10	11.0148E+04	13.0313E+04	13.4442E+04	8.7842E+03	89.0752E+03	90.0149E+03
12	91.9165E+03	10.4361E+04	10.6265E+04	63.6301E+03	67.9201E+03	68.2415E+03



RECTANGULAR SLAB SOURCE = 30 IN. X 120 IN. AIR GAP = 4.0 IN. X = 0.00 Y = 0.0

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0965E-01	10.0843E-01	10.0760E-01	10.1345E-01	10.1154E-01	10.1036E-01
4	10.3316E-01	10.2759E-01	10.2435E-01	10.4499E-01	10.3744E-01	10.3350E-01
6	10.6601E-01	10.5382E-01	10.4734E-01	10.8864E-01	10.7362E-01	10.6655E-01
8	11.0598E-01	10.8569E-01	10.7559E-01	11.4213E-01	11.1888E-01	11.0880E-01
10	11.5183E-01	11.2245E-01	11.0862E-01	12.0449E-01	11.7278E-01	11.6007E-01
12	12.0278E-01	11.6360E-01	11.4615E-01	12.7530E-01	12.3522E-01	12.2040E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1701E-01	10.1497E-01	10.1368E-01	10.2111E-01	10.1920E-01	10.1789E-01
4	10.5887E-01	10.5055E-01	10.4642E-01	10.7670E-01	10.6788E-01	10.6370E-01
6	11.1868E-01	11.0256E-01	10.9568E-01	11.5881E-01	11.4194E-01	11.3546E-01
8	11.9418E-01	11.7021E-01	11.6119E-01	12.6540E-01	12.4121E-01	12.3348E-01
10	12.8455E-01	12.5355E-01	12.4317E-01	13.9691E-01	13.6669E-01	13.5767E-01
12	13.9090E-01	13.5306E-01	13.4204E-01	15.5493E-01	15.2008E-01	15.1243E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2613E-01	10.2444E-01	10.2312E-01	10.3968E-01	10.3820E-01	10.3692E-01
4	10.9919E-01	10.8885E-01	10.8566E-01	11.5926E-01	11.4862E-01	11.4448E-01
6	12.0999E-01	11.9243E-01	11.8646E-01	13.4806E-01	13.2930E-01	13.2447E-01
8	13.5737E-01	13.3319E-01	13.2677E-01	16.1045E-01	15.8691E-01	15.8276E-01
10	15.4372E-01	15.1491E-01	15.0894E-01	19.3799E-01	19.2355E-01	19.2049E-01
12	17.7327E-01	17.4163E-01	17.3655E-01	24.0730E-01	23.8195E-01	23.7988E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CH.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	25.1024E+04	45.7399E+04	53.0822E+04	24.5407E+04	43.9484E+04	59.6795E+04
4	22.6865E+04	38.4835E+04	50.6317E+04	21.7387E+04	35.9921E+04	45.8954E+04
6	20.6375E+04	33.4382E+04	42.1674E+04	19.6078E+04	30.2048E+04	36.7635E+04
8	18.8751E+04	29.3542E+04	35.9832E+04	17.4311E+04	25.7829E+04	30.2713E+04
10	17.3423E+04	26.0714E+04	31.2458E+04	15.7311E+04	22.2878E+04	25.4291E+04
12	15.9970E+04	23.3694E+04	27.4920E+04	14.2534E+04	19.4603E+04	21.6942E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	23.9333E+04	41.9460E+04	55.8531E+04	23.2974E+04	39.8849E+04	52.0204E+04
4	20.6786E+04	32.9744E+04	49.7108E+04	19.5757E+04	30.0299E+04	35.9172E+04
6	18.0127E+04	26.6483E+04	31.1804E+04	16.5884E+04	23.3498E+04	28.3464E+04
8	15.7887E+04	21.9960E+04	24.7042E+04	14.1516E+04	18.6522E+04	20.1956E+04
10	13.9071E+04	18.4192E+04	20.0745E+04	12.1336E+04	15.1302E+04	15.9574E+04
12	12.2981E+04	15.6103E+04	16.6362E+04	10.4452E+04	12.4671E+04	12.9106E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	22.6456E+04	37.8508E+04	48.3572E+04	21.3277E+04	33.9921E+04	41.7703E+04
4	18.4718E+04	27.2655E+04	31.7011E+04	16.3454E+04	22.4877E+04	24.9441E+04
6	15.2052E+04	20.4319E+04	22.4044E+04	12.4444E+04	15.7439E+04	16.5519E+04
8	12.6053E+04	15.7899E+04	16.6709E+04	9.8947E+03	11.4463E+04	11.7354E+04
10	10.5069E+04	12.4410E+04	12.8640E+04	77.7816E+03	85.8619E+03	86.7822E+03
12	87.9371E+03	10.0029E+04	10.1842E+04	61.4221E+03	65.6101E+03	65.9255E+03

RECTANGULAR SLAB SOURCE = 30 IN. X120 IN. AIR GAP = 5.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0835E-01	10.0738E-01	10.0669E-01	10.1077E-01	10.0952E-01	10.0869E-01
4	10.2909E-01	10.2446E-01	10.2170E-01	10.3747E-01	10.3197E-01	10.2892E-01
6	10.5846E-01	10.4810E-01	10.4244E-01	10.7504E-01	10.6406E-01	10.5832E-01
8	10.9453E-01	10.7698E-01	10.6804E-01	11.2332E-01	11.0471E-01	10.9630E-01
10	11.2941E-01	11.1071E-01	10.9806E-01	11.7956E-01	11.5353E-01	11.4274E-01
12	11.6261E-01	11.4803E-01	11.3225E-01	12.4399E-01	12.1038E-01	11.9763E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1276E-01	10.1184E-01	10.1111E-01	10.1506E-01	10.1421E-01	10.1429E-01
4	10.4741E-01	10.4230E-01	10.3945E-01	10.6091E-01	10.5644E-01	10.5387E-01
6	10.9943E-01	10.8829E-01	10.8313E-01	11.3264E-01	11.2211E-01	11.1760E-01
8	11.6677E-01	11.4910E-01	11.4203E-01	12.2830E-01	12.1170E-01	12.0597E-01
10	12.4881E-01	12.2477E-01	12.1639E-01	13.4602E-01	13.2610E-01	13.1891E-01
12	13.4560E-01	13.1570E-01	13.0664E-01	14.9304E-01	14.6681E-01	14.6076E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1812E-01	10.1866E-01	10.1835E-01	10.2731E-01	10.2938E-01	10.2942E-01
4	10.7873E-01	10.7482E-01	10.7248E-01	11.2855E-01	11.2512E-01	11.2312E-01
6	11.7630E-01	11.6618E-01	11.6227E-01	12.9711E-01	12.8730E-01	12.8438E-01
8	13.0942E-01	12.9371E-01	12.8917E-01	15.3623E-01	15.2196E-01	15.1921E-01
10	14.7991E-01	14.5993E-01	14.5550E-01	18.5992E-01	18.3931E-01	18.3717E-01
12	16.9139E-01	16.6851E-01	16.6462E-01	22.7120E-01	22.5386E-01	22.5235E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	22.8932E+04	41.9159E+04	58.0275E+04	22.4656E+04	40.478E+04	55.2084E+04
4	20.8098E+04	35.7204E+04	46.9721E+04	20.0562E+04	33.4481E+04	42.8384E+04
6	19.0227E+04	31.0503E+04	39.3445E+04	18.0130E+04	28.2410E+04	34.5167E+04
8	17.4713E+04	27.3789E+04	33.7178E+04	16.2563E+04	24.2134E+04	28.5345E+04
10	16.1116E+04	24.4058E+04	29.3765E+04	14.7298E+04	21.0055E+04	24.0427E+04
12	14.9105E+04	21.9440E+04	25.9200E+04	13.3919E+04	19.3942E+04	20.5413E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	21.9899E+04	38.8136E+04	51.9247E+04	21.4808E+04	37.0620E+04	48.5672E+04
4	19.1818E+04	30.8156E+04	38.2029E+04	18.2497E+04	28.1847E+04	33.8460E+04
6	16.8237E+04	25.0735E+04	29.4169E+04	15.5813E+04	22.0774E+04	24.9729E+04
8	14.8234E+04	20.4733E+04	23.3923E+04	13.3634E+04	17.6789E+04	19.1926E+04
10	13.1116E+04	17.4534E+04	19.0608E+04	11.5052E+04	14.4006E+04	15.2063E+04
12	11.6338E+04	14.8320E+04	15.8312E+04	99.3700E+03	11.8944E+04	12.3294E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	20.9495E+04	35.5019E+04	45.3138E+04	19.8527E+04	31.9094E+04	39.3832E+04
4	17.2993E+04	25.7054E+04	29.3797E+04	15.4315E+04	21.3501E+04	23.7329E+04
6	14.3523E+04	19.4003E+04	21.2948E+04	12.0566E+04	15.0406E+04	15.8272E+04
8	11.9634E+04	15.8405E+04	15.8978E+04	94.7134E+03	10.9970E+04	11.2618E+04
10	10.0119E+04	11.7064E+04	12.2997E+04	74.7985E+03	82.6106E+03	83.9118E+03
12	84.0611E+03	95.8114E+03	97.6341E+03	59.1841E+03	65.2738E+03	63.5832E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 30 IN. X 120 IN. AIR GAP = 6.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0727E-01	10.0649E-01	10.0593E-01	10.0872E-01	10.0793E-01	10.0735E-01
4	10.2566E-01	10.2182E-01	10.1945E-01	10.3145E-01	10.2752E-01	10.2518E-01
6	10.5206E-01	10.4322E-01	10.3826E-01	10.6496E-01	10.5613E-01	10.5150E-01
8	10.8475E-01	10.6951E-01	10.6157E-01	11.0761E-01	10.9282E-01	10.8582E-01
10	11.2279E-01	11.0080E-01	10.8899E-01	11.5849E-01	11.3721E-01	11.2806E-01
12	11.6522E-01	11.3454E-01	11.2030E-01	12.1713E-01	11.8921E-01	11.7824E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0997E-01	10.0942E-01	10.0910E-01	10.1056E-01	10.1144E-01	10.1150E-01
4	10.3834E-01	10.3566E-01	10.3383E-01	10.4840E-01	10.4727E-01	10.4598E-01
6	10.8371E-01	10.7656E-01	10.7281E-01	11.1127E-01	11.0583E-01	11.0295E-01
8	11.4395E-01	11.3146E-01	11.2604E-01	13.0671E-01	11.8708E-01	11.8259E-01
10	12.1841E-01	12.0047E-01	11.9381E-01	15.5879E-01	12.9185E-01	12.8702E-01
12	13.0705E-01	12.8393E-01	12.7659E-01	14.4039E-01	14.2153E-01	14.1686E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1215E-01	10.1423E-01	10.1467E-01	10.1802E-01	10.2252E-01	10.2364E-01
4	10.6240E-01	10.6277E-01	10.6193E-01	11.5840E-01	11.0628E-01	11.0600E-01
6	11.4872E-01	11.4463E-01	11.4242E-01	12.5537E-01	12.5284E-01	12.5151E-01
8	12.6947E-01	12.6080E-01	12.5784E-01	14.7450E-01	14.6793E-01	14.6636E-01
10	14.2614E-01	14.1360E-01	14.1050E-01	17.7022E-01	17.6102E-01	17.5967E-01
12	16.2189E-01	16.0642E-01	16.0358E-01	21.5614E-01	21.4558E-01	21.4457E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	20.9686E+04	38.5596E+04	53.5667E+04	20.6375E+04	37.3905E+04	51.2037E+04
4	19.1591E+04	33.0896E+04	43.7034E+04	18.5517E+04	31.1314E+04	40.0730E+04
6	17.5911E+04	28.9130E+04	36.8033E+04	16.7530E+04	26.4504E+04	32.4614E+04
8	16.2185E+04	25.5994E+04	31.4465E+04	15.1871E+04	22.7747E+04	28.9370E+04
10	15.0071E+04	22.8974E+04	27.4778E+04	13.8132E+04	19.8242E+04	22.7420E+04
12	13.9305E+04	20.6474E+04	24.4842E+04	12.5996E+04	17.4083E+04	19.5111E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	20.2501E+04	35.8902E+04	48.3599E+04	19.8459E+04	34.4859E+04	45.3964E+04
4	17.8220E+04	28.8355E+04	35.8952E+04	17.0281E+04	28.4828E+04	31.9156E+04
6	15.7311E+04	23.6005E+04	27.7814E+04	14.6399E+04	22.8650E+04	29.4635E+04
8	13.9294E+04	18.6344E+04	22.1692E+04	12.6215E+04	18.7753E+04	18.7447E+04
10	12.1587E+04	14.5904E+04	18.1121E+04	10.9107E+04	13.7892E+04	14.4941E+04
12	11.0127E+04	14.1021E+04	15.0755E+04	9.5446E+03	11.3539E+04	11.7749E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	19.4078E+04	32.9515E+04	42.4284E+04	18.4857E+04	29.9483E+04	37.1205E+04
4	16.2040E+04	24.2369E+04	25.3539E+04	16.3545E+04	20.2310E+04	22.5608E+04
6	13.5438E+04	18.3999E+04	20.3344E+04	11.4624E+04	14.3908E+04	15.1175E+04
8	11.3499E+04	14.3230E+04	15.1575E+04	9.5344E+03	14.5350E+04	10.7945E+04
10	95.3685E+03	11.3734E+04	11.7574E+04	71.7222E+03	79.3894E+03	80.2722E+03
12	80.3287E+03	91.7487E+03	93.3324E+03	56.9658E+03	60.9251E+03	61.2587E+03

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0639E-01	10.0575E-01	10.0529E-01	10.0713E-01	10.0666E-01	10.0628E-01
4	10.2280E-01	10.1958E-01	10.1754E-01	10.2660E-01	10.2387E-01	10.2210E-01
6	10.4664E-01	10.3908E-01	10.3470E-01	10.5616E-01	10.4991E-01	10.4580E-01
8	10.7641E-01	10.6311E-01	10.5603E-01	10.9444E-01	10.8278E-01	10.7699E-01
10	11.1115E-01	10.9118E-01	10.8120E-01	11.4061E-01	11.2334E-01	11.1559E-01
12	11.5021E-01	11.2290E-01	11.0999E-01	11.9423E-01	11.7108E-01	11.6166E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0715E-01	10.0752E-01	10.0751E-01	10.0717E-01	10.0882E-01	10.0930E-01
4	10.3110E-01	10.3028E-01	10.2925E-01	10.3840E-01	10.3984E-01	10.3958E-01
6	10.7078E-01	10.6680E-01	10.6426E-01	10.9364E-01	10.9233E-01	10.9081E-01
8	11.2484E-01	11.1663E-01	11.1262E-01	11.7167E-01	11.6637E-01	11.6378E-01
10	11.9263E-01	11.7983E-01	11.7467E-01	12.7176E-01	12.6275E-01	12.5953E-01
12	12.7407E-01	12.5674E-01	12.5084E-01	13.9531E-01	13.8276E-01	13.7922E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0763E-01	10.1078E-01	10.1179E-01	10.1389E-01	10.1716E-01	10.1910E-01
4	10.4943E-01	10.5299E-01	10.5337E-01	10.8414E-01	10.9094E-01	10.9209E-01
6	11.2590E-01	11.2674E-01	11.2598E-01	12.2071E-01	12.2421E-01	12.2423E-01
8	12.3587E-01	12.3309E-01	12.3150E-01	14.2256E-01	14.2274E-01	14.2192E-01
10	13.8042E-01	13.7422E-01	13.7223E-01	16.9750E-01	16.9461E-01	16.9393E-01
12	15.6231E-01	15.5230E-01	15.5136E-01	20.5792E-01	20.5317E-01	20.5259E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CH.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	19.2028E+04	35.5995E+04	49.6119E+04	19.0227E+04	34.6370E+04	47.6110E+04
4	17.7004E+04	30.7442E+04	40.7725E+04	17.2050E+04	29.0759E+04	37.5608E+04
6	16.3166E+04	26.9928E+04	34.5075E+04	15.4343E+04	24.8185E+04	30.5802E+04
8	15.0963E+04	23.9911E+04	29.8050E+04	14.2138E+04	21.4533E+04	25.4648E+04
10	14.0125E+04	21.5272E+04	26.1208E+04	12.9740E+04	18.7356E+04	21.7784E+04
12	13.0459E+04	19.4446E+04	23.1691E+04	11.8709E+04	16.4961E+04	19.3373E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	18.7177E+04	33.4473E+04	45.1285E+04	18.3783E+04	32.1445E+04	42.4959E+04
4	16.5915E+04	27.0248E+04	33.7754E+04	15.9085E+04	24.9078E+04	30.1249E+04
6	14.7298E+04	22.2403E+04	26.2677E+04	13.7862E+04	19.7335E+04	22.4392E+04
8	13.1036E+04	18.5773E+04	21.0311E+04	11.9275E+04	15.9285E+04	17.3578E+04
10	11.6810E+04	15.7683E+04	17.2257E+04	10.3514E+04	13.0570E+04	13.8218E+04
12	10.4332E+04	13.4180E+04	14.3673E+04	8.9902E+03	10.2405E+04	11.2539E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	18.8130E+04	30.7972E+04	39.8816E+04	17.2307E+04	28.1222E+04	34.9999E+04
4	15.1893E+04	22.9652E+04	26.8343E+04	13.7250E+04	19.2042E+04	21.4424E+04
6	12.7842E+04	17.4580E+04	19.2387E+04	10.8915E+04	13.6861E+04	14.4328E+04
8	10.7683E+04	13.6417E+04	14.4340E+04	8.64808E+03	10.0977E+04	10.3405E+04
10	9.0434E+03	10.9858E+04	11.2408E+04	6.87771E+03	7.6.2445E+03	7.1.087E+03
12	7.6.7606E+03	87.8422E+03	89.6079E+03	5.4.7911E+03	5.8.4842E+03	5.8.9822E+03

RECTANGULAR SLAB SOURCE = 30 IN. X240 IN. AIR GAP = 0.0 IN. X = 0.00 Y = 0.0

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	98.6440E-02	99.6748E-02	99.9653E-02	10.0532E-01	10.0893E-01	10.0916E-01
4	10.0820E-01	10.1582E-01	10.1618E-01	10.4832E-01	10.4329E-01	10.3931E-01
6	10.5074E-01	10.4830E-01	10.4399E-01	11.1086E-01	10.932E-01	10.8423E-01
8	11.0361E-01	10.8879E-01	10.7919E-01	11.8549E-01	11.5464E-01	11.4122E-01
10	11.6342E-01	11.3510E-01	11.2015E-01	12.7027E-01	12.2666E-01	12.0939E-01
12	12.2881E-01	11.8654E-01	11.6615E-01	13.6477E-01	13.0893E-01	12.8857E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2497E-01	10.2230E-01	10.2007E-01	10.4578E-01	10.3716E-01	10.3267E-01
4	10.9229E-01	10.7594E-01	10.6835E-01	11.4123E-01	11.1470E-01	11.0419E-01
6	11.8136E-01	11.5052E-01	11.3848E-01	12.6631E-01	12.2230E-01	12.0833E-01
8	12.8750E-01	12.4390E-01	12.2885E-01	14.1329E-01	13.5972E-01	13.4456E-01
10	14.1053E-01	13.5609E-01	13.3936E-01	15.9031E-01	15.2858E-01	15.1382E-01
12	15.5140E-01	14.8786E-01	14.7055E-01	17.9857E-01	17.3142E-01	17.1797E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.6793E-01	10.5364E-01	10.4708E-01	11.1655E-01	10.9173E-01	10.8163E-01
4	11.9570E-01	11.6009E-01	11.4735E-01	13.2266E-01	12.7217E-01	12.5691E-01
6	13.6102E-01	13.0977E-01	12.9493E-01	16.0045E-01	15.3629E-01	15.2217E-01
8	15.6578E-01	15.0486E-01	14.9068E-01	19.6336E-01	18.9490E-01	18.8423E-01
10	18.1552E-01	17.4961E-01	17.3741E-01	24.3034E-01	23.6350E-01	23.5628E-01
12	21.1725E-01	20.4969E-01	20.3988E-01	30.2520E-01	29.6323E-01	29.5864E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	37.2033E+04	66.8131E+04	90.9377E+04	35.0844E+04	61.5282E+04	82.2349E+04
4	33.1620E+04	55.1507E+04	71.0491E+04	30.3065E+04	48.8217E+04	61.1920E+04
6	29.6098E+04	46.7508E+04	58.1362E+04	26.4438E+04	40.0541E+04	48.0133E+04
8	26.6319E+04	40.4360E+04	49.0246E+04	23.3061E+04	33.6081E+04	38.9583E+04
10	24.1246E+04	35.5101E+04	42.2249E+04	20.7066E+04	28.6659E+04	32.3708E+04
12	21.9888E+04	31.5544E+04	36.9416E+04	18.5151E+04	24.7605E+04	27.3815E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	33.1325E+04	56.6594E+04	74.2297E+04	31.3367E+04	52.2459E+04	67.0767E+04
4	27.6838E+04	43.0356E+04	52.3668E+04	25.3065E+04	37.9423E+04	44.8176E+04
6	23.5269E+04	34.0440E+04	39.3390E+04	20.9093E+04	28.9308E+04	32.3756E+04
8	20.2420E+04	27.6395E+04	30.7561E+04	17.5255E+04	22.7425E+04	24.5079E+04
10	17.5703E+04	22.8653E+04	24.7454E+04	14.8308E+04	18.2754E+04	19.1987E+04
12	15.3517E+04	19.1911E+04	20.3456E+04	12.6358E+04	14.9354E+04	15.4255E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	29.6834E+04	48.2714E+04	60.7600E+04	26.7505E+04	41.4881E+04	50.3292E+04
4	23.1637E+04	33.5254E+04	38.6362E+04	19.5807E+04	28.4388E+04	29.1745E+04
6	18.5881E+04	24.6608E+04	26.8748E+04	14.7377E+04	18.1792E+04	18.0701E+04
8	15.1920E+04	18.7985E+04	19.7822E+04	11.3901E+04	13.0822E+04	13.3890E+04
10	12.4886E+04	14.7007E+04	15.1455E+04	88.4106E+03	97.3302E+03	98.3302E+03
12	10.3616E+04	11.7183E+04	11.9221E+04	69.3802E+03	73.9803E+03	74.3209E+03

RECTANGULAR SLAB SOURCE = 30 IN. X240 IN. AIR GAP = 1.0 IN. X = 0.00 Y = 0

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0983E-01	10.0967E-01	10.0894E-01	10.2271E-01	10.1865E-01	10.1625E-01
4	10.4133E-01	10.3463E-01	10.3040E-01	10.7206E-01	10.5705E-01	10.4993E-01
6	10.8532E-01	10.6861E-01	10.5978E-01	11.3530E-01	11.0782E-01	10.9598E-01
8	11.3744E-01	11.0906E-01	10.9521E-01	12.0907E-01	11.6915E-01	11.5308E-01
10	11.9578E-01	11.5477E-01	11.3578E-01	12.9249E-01	12.4049E-01	12.2085E-01
12	12.5939E-01	12.0509E-01	11.8102E-01	13.8522E-01	13.2165E-01	12.9924E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3654E-01	10.2878E-01	10.2486E-01	10.5171E-01	10.4036E-01	10.3503E-01
4	11.0685E-01	10.8448E-01	10.7508E-01	11.4637E-01	11.1779E-01	11.0659E-01
6	11.9541E-01	11.5906E-01	11.4545E-01	12.6180E-01	12.2395E-01	12.0950E-01
8	13.0014E-01	12.5186E-01	12.3531E-01	14.1491E-01	13.5931E-01	13.4382E-01
10	14.2138E-01	13.6262E-01	13.4483E-01	15.8832E-01	15.2564E-01	15.1045E-01
12	15.6014E-01	14.9270E-01	14.7432E-01	17.9328E-01	17.2563E-01	17.1183E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.6841E-01	10.5353E-01	10.4688E-01	11.0677E-01	10.8497E-01	10.7599E-01
4	11.9265E-01	11.5747E-01	11.4492E-01	13.0291E-01	12.5733E-01	12.4342E-01
6	13.5373E-01	13.0369E-01	12.8915E-01	15.7076E-01	15.1209E-01	14.9905E-01
8	15.5399E-01	14.9465E-01	14.8075E-01	19.2272E-01	18.5955E-01	18.4962E-01
10	17.9879E-01	17.3454E-01	17.2258E-01	23.7689E-01	23.1479E-01	23.0802E-01
12	20.9488E-01	20.2892E-01	20.1929E-01	29.5633E-01	28.9841E-01	28.9409E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CH.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	33.9061E+04	60.9597E+04	83.2375E+04	32.4286E+04	56.9610E+04	76.3273E+04
4	30.1515E+04	50.5487E+04	65.5002E+04	28.0027E+04	45.3785E+04	57.1111E+04
6	27.0537E+04	43.1266E+04	53.9577E+04	24.5324E+04	37.4114E+04	45.0312E+04
8	24.4682E+04	37.5172E+04	45.7533E+04	21.7137E+04	31.5250E+04	36.6820E+04
10	22.2778E+04	33.1089E+04	39.5858E+04	19.3663E+04	26.9860E+04	30.5755E+04
12	20.3972E+04	29.5439E+04	34.7630E+04	17.3758E+04	23.3807E+04	25.9301E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	31.0000E+04	53.1184E+04	69.7368E+04	29.6279E+04	49.5109E+04	63.6753E+04
4	25.9379E+04	40.4928E+04	49.4068E+04	23.9927E+04	36.0805E+04	42.7486E+04
6	22.1128E+04	32.1490E+04	37.2427E+04	19.8829E+04	27.5846E+04	36.9152E+04
8	19.0918E+04	26.1799E+04	29.1944E+04	16.7056E+04	21.7320E+04	23.4445E+04
10	16.6181E+04	21.7118E+04	23.3381E+04	14.1645E+04	17.4930E+04	18.3918E+04
12	14.5549E+04	18.2610E+04	19.3863E+04	12.0878E+04	14.3156E+04	14.7941E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	28.3144E+04	46.1621E+04	58.1894E+04	25.8782E+04	40.2333E+04	48.8579E+04
4	22.1801E+04	32.1493E+04	37.1114E+04	18.9522E+04	25.7291E+04	28.3974E+04
6	17.8456E+04	23.7138E+04	25.8598E+04	14.3551E+04	17.7132E+04	18.5845E+04
8	14.5791E+04	18.1042E+04	19.0610E+04	11.0667E+04	12.7679E+04	13.0578E+04
10	12.0273E+04	14.1733E+04	14.6073E+04	86.2462E+03	94.9522E+03	95.9390E+03
12	99.6918E+03	11.3078E+04	11.5871E+04	67.6988E+03	72.1957E+03	72.5298E+03

RECTANGULAR SLAB SOURCE = 30 IN. X 240 IN. AIR GAP = 2.0 IN. X = 0.00 Y = 0

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1213E-01	10.1049E-01	10.0934E-01	10.2071E-01	10.1686E-01	10.1470E-01
4	10.4142E-01	10.3363E-01	10.2926E-01	10.6434E-01	10.5117E-01	10.4490E-01
6	10.8105E-01	10.6445E-01	10.5999E-01	11.2086E-01	10.9688E-01	10.8639E-01
8	11.2801E-01	11.0106E-01	10.8801E-01	11.8794E-01	11.5250E-01	11.3817E-01
10	11.8081E-01	11.4250E-01	11.2476E-01	12.6346E-01	12.1751E-01	11.9991E-01
12	12.3859E-01	11.8821E-01	11.6580E-01	13.4835E-01	12.9182E-01	12.7159E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2997E-01	10.2413E-01	10.2109E-01	10.4031E-01	10.3259E-01	10.2879E-01
4	10.9077E-01	10.7306E-01	10.6534E-01	11.2191E-01	11.0010E-01	10.9136E-01
6	11.6976E-01	11.4005E-01	11.2861E-01	12.2987E-01	11.9540E-01	11.8367E-01
8	12.6477E-01	12.2425E-01	12.1022E-01	13.6304E-01	13.1863E-01	13.0574E-01
10	13.7579E-01	13.2587E-01	13.1040E-01	15.2300E-01	14.7125E-01	14.5855E-01
12	15.0356E-01	14.4562E-01	14.2967E-01	17.1232E-01	16.5545E-01	16.4370E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.5196E-01	10.4228E-01	10.3780E-01	10.7963E-01	10.6634E-01	10.6042E-01
4	11.5832E-01	11.3275E-01	11.2325E-01	12.4842E-01	12.1627E-01	12.0606E-01
6	13.0238E-01	12.6401E-01	12.5250E-01	14.8802E-01	14.4500E-01	14.3497E-01
8	14.8486E-01	14.3790E-01	14.2659E-01	18.0983E-01	17.6113E-01	17.5328E-01
10	17.1003E-01	16.5807E-01	16.4813E-01	22.2719E-01	21.7829E-01	21.7284E-01
12	19.8372E-01	19.2954E-01	19.2144E-01	27.6171E-01	27.1540E-01	27.1187E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/50.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	30.6937E+04	55.5026E+04	76.1457E+04	29.6090E+04	52.3513E+04	70.4760E+04
4	27.4733E+04	46.4537E+04	60.5461E+04	25.7874E+04	42.1067E+04	53.2496E+04
6	24.8089E+04	39.9168E+04	50.2368E+04	22.7415E+04	34.9427E+04	42.2453E+04
8	22.5637E+04	34.9226E+04	42.6297E+04	20.2343E+04	29.5891E+04	34.5643E+04
10	20.6431E+04	30.9631E+04	37.2158E+04	18.1247E+04	25.4272E+04	28.9074E+04
12	18.9804E+04	27.7377E+04	32.7971E+04	16.3213E+04	22.1005E+04	24.5816E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	24.5341E+04	49.2408E+04	64.9318E+04	27.4767E+04	46.2563E+04	59.7379E+04
4	24.1198E+04	37.9047E+04	46.4210E+04	22.5098E+04	34.0439E+04	40.4501E+04
6	20.7066E+04	30.2717E+04	35.1744E+04	18.7797E+04	26.1703E+04	29.3866E+04
8	17.9394E+04	24.7535E+04	27.6710E+04	15.9489E+04	20.8901E+04	22.3522E+04
10	15.6910E+04	20.5937E+04	22.3687E+04	13.4816E+04	16.6978E+04	17.5732E+04
12	13.7849E+04	17.3644E+04	18.4617E+04	11.5341E+04	13.6927E+04	14.1601E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	26.4438E+04	43.4335E+04	54.9628E+04	24.4668E+04	38.3146E+04	48.6797E+04
4	20.9767E+04	30.5720E+04	35.3440E+04	18.1713E+04	24.7463E+04	27.3689E+04
6	16.9897E+04	22.6500E+04	24.7311E+04	13.8478E+04	17.1166E+04	17.9669E+04
8	13.9366E+04	17.3447E+04	18.2778E+04	10.7110E+04	12.3696E+04	12.6534E+04
10	11.5793E+04	13.6104E+04	14.0340E+04	8.6513E+03	9.2154E+03	9.31137E+03
12	9.5935E+03	10.8768E+03	11.0718E+03	6.7504E+03	7.01437E+03	7.0714E+03

RECTANGULAR SLAB SOURCE = 30 IN. X240 IN. AIR GAP = 3.0 IN. X = 0.00 Y = 0

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.3 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1277E-01	10.0927E-01	10.0827E-01	10.1675E-01	10.1396E-01	10.1732E-01
4	10.3834E-01	10.2970E-01	10.2592E-01	10.5381E-01	10.4365E-01	10.3861E-01
6	10.7231E-01	10.5700E-01	10.4965E-01	11.0391E-01	10.8407E-01	10.7535E-01
8	11.1214E-01	10.8980E-01	10.7826E-01	11.6274E-01	11.3385E-01	11.2166E-01
10	11.6049E-01	11.2699E-01	11.1118E-01	12.3112E-01	11.9249E-01	11.7727E-01
12	12.1256E-01	11.6815E-01	11.4806E-01	13.0806E-01	12.5985E-01	12.4218E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2313E-01	10.1932E-01	10.1721E-01	10.3036E-01	10.2567E-01	10.2314E-01
4	10.7421E-01	10.6138E-01	10.5552E-01	10.9879E-01	10.8363E-01	10.7719E-01
6	11.4345E-01	11.2069E-01	11.1154E-01	11.9378E-01	11.6822E-01	11.5911E-01
8	12.2855E-01	11.9638E-01	11.8483E-01	13.1365E-01	12.7938E-01	12.6905E-01
10	13.2919E-01	12.8857E-01	12.7558E-01	14.5936E-01	14.1924E-01	14.0793E-01
12	14.4482E-01	13.9783E-01	13.8424E-01	16.3296E-01	15.8701E-01	15.7729E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3865E-01	10.3315E-01	10.3024E-01	10.5896E-01	10.5182E-01	10.4823E-01
4	11.2811E-01	11.1082E-01	11.0401E-01	12.0235E-01	11.8130E-01	11.7421E-01
6	12.2542E-01	12.2759E-01	12.1887E-01	14.1642E-01	13.8548E-01	13.7811E-01
8	14.2028E-01	13.8481E-01	13.7594E-01	17.0766E-01	16.7185E-01	16.6588E-01
10	16.2598E-01	15.8564E-01	15.7768E-01	20.8964E-01	20.5272E-01	20.4848E-01
12	18.7753E-01	18.3462E-01	18.2801E-01	25.8102E-01	25.4538E-01	25.4259E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	27.8892E+04	50.7345E+04	69.9268E+04	27.0537E+04	48.1657E+04	65.1532E+04
4	28.1425E+04	35.6520E+04	43.5921E+04	29.7795E+04	39.1319E+04	49.7266E+04
6	22.8455E+04	37.0787E+04	46.9263E+04	21.1122E+04	32.6807E+04	39.6927E+04
8	20.8852E+04	32.6118E+04	40.2112E+04	18.8835E+04	27.8137E+04	32.6177E+04
10	19.1922E+04	29.0398E+04	35.0807E+04	16.9873E+04	23.9933E+04	27.3617E+04
12	17.7144E+04	26.1096E+04	31.0172E+04	15.3526E+04	20.9199E+04	23.3319E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	26.2094E+04	45.7575E+04	60.3870E+04	25.2668E+04	43.0523E+04	55.8616E+04
4	22.3932E+04	28.9231E+04	33.5921E+04	21.0395E+04	32.0308E+04	38.1895E+04
6	19.3842E+04	28.4913E+04	33.2130E+04	17.6855E+04	24.7725E+04	27.8808E+04
8	16.8845E+04	23.4004E+04	26.2255E+04	15.0020E+04	19.5645E+04	21.2793E+04
10	14.8113E+04	19.3331E+04	21.2591E+04	12.8094E+04	15.9177E+04	14.7706E+04
12	13.0528E+04	16.5142E+04	17.5847E+04	10.9913E+04	13.0895E+04	13.5401E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	24.5324E+04	40.6346E+04	51.6549E+04	22.9056E+04	36.1778E+04	44.2566E+04
4	19.7272E+04	28.9231E+04	33.5268E+04	17.2780E+04	23.6416E+04	28.1716E+04
6	16.4022E+04	21.9557E+04	23.5734E+04	13.2720E+04	16.4473E+04	17.2764E+04
8	13.7472E+04	16.5719E+04	17.4780E+04	10.3143E+04	11.9283E+04	12.2056E+04
10	11.0203E+04	13.0381E+04	13.4515E+04	80.7899E+03	89.0014E+03	90.0212E+03
12	91.9592E+03	10.4413E+04	10.6321E+04	63.6338E+03	67.9242E+03	68.2457E+03



CUBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 30 IN. X240 IN. AIR GAP = 4.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0921E-01	10.0801E-01	10.0719E-01	10.1350E-01	10.1155E-01	10.1035E-01
4	10.3168E-01	10.3022E-01	10.2285E-01	10.4501E-01	10.3733E-01	10.3333E-01
6	10.4239E-01	10.5042E-01	10.4398E-01	10.8845E-01	10.7319E-01	10.6598E-01
8	10.9978E-01	10.7977E-01	10.6963E-01	11.4153E-01	11.1789E-01	11.0756E-01
10	11.4241E-01	11.1328E-01	10.9924E-01	12.0325E-01	11.7095E-01	11.5764E-01
12	11.8950E-01	11.5049E-01	11.3252E-01	12.7316E-01	12.3221E-01	12.1681E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1801E-01	10.1563E-01	10.1420E-01	10.2318E-01	10.2055E-01	10.1895E-01
4	10.6108E-01	10.5200E-01	10.4758E-01	10.8091E-01	10.7072E-01	10.6608E-01
6	11.2193E-01	11.0475E-01	10.9749E-01	11.6480E-01	11.4624E-01	11.3926E-01
8	11.9833E-01	11.7307E-01	11.6362E-01	12.7305E-01	12.4702E-01	12.3881E-01
10	12.8981E-01	12.5702E-01	12.4616E-01	14.0624E-01	13.7411E-01	13.6565E-01
12	13.9659E-01	13.5709E-01	13.4553E-01	15.6603E-01	15.2925E-01	15.2120E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2926E-01	10.2644E-01	10.2471E-01	10.4461E-01	10.4147E-01	10.3951E-01
4	11.0503E-01	10.9388E-01	10.8913E-01	11.6746E-01	11.5660E-01	11.4988E-01
6	12.1807E-01	11.9847E-01	11.9197E-01	13.5924E-01	13.3831E-01	13.3304E-01
8	13.6766E-01	13.4142E-01	13.3455E-01	16.2504E-01	15.9951E-01	15.9507E-01
10	15.5640E-01	15.2559E-01	15.1927E-01	19.7669E-01	19.4950E-01	19.4626E-01
12	17.8865E-01	17.5511E-01	17.4976E-01	24.3108E-01	24.0422E-01	24.0204E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CH.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	25.4755E+04	46.5975E+04	64.4967E+04	24.8089E+04	44.4537E+04	60.4038E+04
4	23.1214E+04	39.7019E+04	52.2998E+04	21.9888E+04	36.4545E+04	46.5396E+04
6	21.1219E+04	34.5604E+04	43.9703E+04	19.6448E+04	30.6403E+04	37.3691E+04
8	19.3996E+04	30.5456E+04	37.8567E+04	17.6581E+04	26.1938E+04	30.6361E+04
10	17.8993E+04	27.3091E+04	33.1500E+04	15.9502E+04	22.6790E+04	25.9569E+04
12	16.5805E+04	24.6369E+04	29.4000E+04	14.4657E+04	19.8338E+04	22.1876E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	24.1246E+04	42.2493E+04	56.2377E+04	23.4332E+04	40.0748E+04	52.2379E+04
4	20.2191E+04	33.1894E+04	40.9752E+04	19.6546E+04	30.1233E+04	36.0331E+04
6	18.1247E+04	26.8355E+04	31.3862E+04	16.6416E+04	23.4371E+04	26.4421E+04
8	15.8825E+04	22.1360E+04	24.8735E+04	14.1896E+04	18.6811E+04	20.2484E+04
10	13.9884E+04	18.5390E+04	20.2183E+04	12.1632E+04	15.1682E+04	15.9994E+04
12	12.3703E+04	15.7157E+04	16.7605E+04	10.4693E+04	12.4978E+04	12.9442E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	22.7415E+04	37.9708E+04	49.4880E+04	21.3753E+04	34.0448E+04	41.8244E+04
4	18.5151E+04	27.3168E+04	31.7558E+04	16.3966E+04	22.5017E+04	24.9584E+04
6	15.2293E+04	20.4801E+04	22.4364E+04	12.6695E+04	15.7493E+04	16.5574E+04
8	12.6206E+04	15.8077E+04	16.6899E+04	98.9718E+03	11.4470E+04	11.7380E+04
10	10.5172E+04	12.4735E+04	12.8772E+04	77.7955E+03	85.8767E+03	86.7971E+03
12	88.0166E+03	10.0121E+04	10.1989E+04	61.4308E+03	65.6193E+03	65.9348E+03

RECTANGULAR SLAB SOURCE = 30 IN. X240 IN.

AIR GAP = 5.0 IN.

X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0790E-01	10.0696E-01	10.0630E-01	10.1103E-01	10.0969E-01	10.0880E-01
4	10.2743E-01	10.2294E-01	10.2024E-01	10.3804E-01	10.3225E-01	10.2907E-01
6	10.5496E-01	10.4484E-01	10.3924E-01	10.7637E-01	10.6427E-01	10.5830E-01
8	10.8899E-01	10.7134E-01	10.6238E-01	11.2400E-01	11.0464E-01	10.9587E-01
10	11.2718E-01	11.0171E-01	10.8818E-01	11.7996E-01	11.5291E-01	11.4159E-01
12	11.6997E-01	11.3553E-01	11.1938E-01	12.4376E-01	12.0291E-01	11.9545E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1421E-01	10.1283E-01	10.1189E-01	10.1795E-01	10.1671E-01	10.1578E-01
4	10.5085E-01	10.4458E-01	10.4130E-01	10.6713E-01	10.6065E-01	10.5739E-01
6	11.0465E-01	10.9185E-01	10.8612E-01	11.4173E-01	11.2863E-01	11.2336E-01
8	11.7361E-01	11.5391E-01	11.4619E-01	12.4006E-01	12.2063E-01	12.1417E-01
10	12.5714E-01	12.3080E-01	12.2173E-01	13.6246E-01	13.3760E-01	13.3076E-01
12	13.5535E-01	13.2295E-01	13.1315E-01	15.1031E-01	14.8113E-01	14.7450E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2247E-01	10.2147E-01	10.2058E-01	10.3433E-01	10.3389E-01	10.3309E-01
4	10.8736E-01	10.8076E-01	10.7760E-01	11.4089E-01	11.3410E-01	11.3120E-01
6	11.8500E-01	11.7528E-01	11.7054E-01	13.1418E-01	13.0100E-01	12.9740E-01
8	13.2511E-01	13.0623E-01	13.0101E-01	15.5855E-01	15.4119E-01	15.3799E-01
10	14.9933E-01	14.7627E-01	14.7130E-01	18.8455E-01	18.6522E-01	18.6279E-01
12	17.1499E-01	16.8918E-01	16.8489E-01	23.0757E-01	22.8788E-01	22.8621E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CH. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	23.3900E+04	42.9912E+04	59.7334E+04	22.8454E+04	41.1718E+04	56.1776E+04
4	21.3523E+04	36.9120E+04	48.8574E+04	20.3972E+04	34.0517E+04	43.6668E+04
6	19.6012E+04	32.3150E+04	41.3185E+04	18.3264E+04	29.7871E+04	35.2564E+04
8	18.0787E+04	28.6900E+04	35.7304E+04	16.5488E+04	24.7171E+04	29.2071E+04
10	16.7422E+04	25.7457E+04	31.3971E+04	15.0058E+04	21.4751E+04	24.6595E+04
12	15.5597E+04	23.2998E+04	27.9252E+04	13.6545E+04	18.8351E+04	21.1295E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	22.2778E+04	39.2650E+04	52.4897E+04	21.6977E+04	37.3628E+04	48.9137E+04
4	19.3913E+04	31.1240E+04	38.5772E+04	18.3768E+04	28.3502E+04	34.0281E+04
6	16.9873E+04	25.3098E+04	29.6988E+04	15.6651E+04	22.1828E+04	25.0892E+04
8	14.9574E+04	20.4639E+04	23.6181E+04	13.4235E+04	17.7518E+04	19.2746E+04
10	13.2247E+04	17.6136E+04	19.2482E+04	11.5509E+04	14.4572E+04	15.2677E+04
12	11.7327E+04	14.9701E+04	15.9903E+04	9.7333E+03	11.9410E+04	12.3774E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	21.1122E+04	35.5072E+04	45.5373E+04	19.9435E+04	32.0110E+04	39.4877E+04
4	17.3758E+04	25.7952E+04	30.0748E+04	15.4590E+04	21.3793E+04	23.7625E+04
6	14.3950E+04	19.4493E+04	21.3464E+04	12.0875E+04	15.0515E+04	15.8388E+04
8	11.9902E+04	15.0710E+04	15.9298E+04	9.7657E+03	11.0024E+04	11.2673E+04
10	10.0301E+04	11.9272E+04	12.3213E+04	7.7672E+03	8.26407E+03	8.5422E+03
12	8.4.1936E+03	9.5.9614E+03	9.7.7894E+03	5.9.2035E+03	6.3.2920E+03	6.3.6015E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 30 IN. X240 IN. AIR GAP = 6.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0686E-01	10.0611E-01	10.0556E-01	10.0912E-01	10.0820E-01	10.0756E-01
4	10.2414E-01	10.2041E-01	10.1809E-01	10.3246E-01	10.2811E-01	10.2558E-01
6	10.4882E-01	10.4019E-01	10.3527E-01	10.6648E-01	10.5690E-01	10.5194E-01
8	10.7924E-01	10.6424E-01	10.5628E-01	11.0942E-01	10.9356E-01	10.8609E-01
10	11.1434E-01	10.9122E-01	10.8068E-01	11.6036E-01	11.3769E-01	11.2790E-01
12	11.5340E-01	11.2282E-01	11.0825E-01	12.1881E-01	11.8913E-01	11.7735E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1131E-01	10.1064E-01	10.1007E-01	10.1396E-01	10.1374E-01	10.1331E-01
4	10.4272E-01	10.3861E-01	10.3622E-01	10.5623E-01	10.5258E-01	10.5042E-01
6	10.9058E-01	10.8126E-01	10.7679E-01	11.2303E-01	11.1426E-01	11.1039E-01
8	11.5312E-01	11.3797E-01	11.3171E-01	12.1286E-01	11.9880E-01	11.9380E-01
10	12.2975E-01	12.0878E-01	12.0123E-01	13.2593E-01	13.0709E-01	13.0162E-01
12	13.2049E-01	12.9406E-01	12.8577E-01	14.6340E-01	14.4060E-01	14.3518E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1732E-01	10.1763E-01	10.1737E-01	10.2661E-01	10.2810E-01	10.2816E-01
4	10.7346E-01	10.7033E-01	10.6842E-01	11.2010E-01	11.1794E-01	11.1648E-01
6	11.6463E-01	11.5647E-01	11.5320E-01	12.7798E-01	12.7095E-01	12.6871E-01
8	12.9017E-01	12.7727E-01	12.7341E-01	15.0423E-01	14.9350E-01	14.9131E-01
10	14.5190E-01	14.3522E-01	14.3141E-01	18.0839E-01	17.9552E-01	17.9378E-01
12	16.5323E-01	16.3388E-01	16.3049E-01	22.0462E-01	21.9089E-01	21.8965E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/50 CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	21.5744E+04	39.8265E+04	55.5289E+04	21.1219E+04	38.2629E+04	52.4086E+04
4	19.7959E+04	34.4337E+04	45.7805E+04	18.9804E+04	31.8925E+04	41.0720E+04
6	18.2521E+04	30.3032E+04	38.9286E+04	17.1410E+04	27.1073E+04	33.3335E+04
8	16.8987E+04	27.0164E+04	33.8023E+04	15.5441E+04	23.3704E+04	27.7163E+04
10	15.7024E+04	24.3279E+04	29.7997E+04	14.1457E+04	20.3718E+04	23.4671E+04
12	14.6378E+04	22.0816E+04	26.5756E+04	12.9122E+04	17.9162E+04	20.1537E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	20.6431E+04	36.5933E+04	49.1121E+04	20.1484E+04	34.9096E+04	45.8856E+04
4	18.1045E+04	29.2455E+04	36.3868E+04	17.2107E+04	26.7165E+04	32.1745E+04
6	15.9502E+04	23.9094E+04	28.1457E+04	14.7612E+04	21.0155E+04	23.8278E+04
8	14.1072E+04	19.8814E+04	22.4564E+04	12.7081E+04	16.8812E+04	18.3614E+04
10	12.5188E+04	16.7551E+04	18.3470E+04	10.9760E+04	13.7882E+04	14.5788E+04
12	11.1409E+04	14.2759E+04	15.2725E+04	9.5058E+03	11.4154E+04	11.8423E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	19.6448E+04	33.2551E+04	42.8202E+04	18.4298E+04	30.1122E+04	37.2896E+04
4	16.3213E+04	24.3744E+04	28.3006E+04	14.4022E+04	20.3019E+04	22.6124E+04
6	13.6103E+04	18.4757E+04	20.3157E+04	11.4823E+04	14.3714E+04	15.1384E+04
8	11.3916E+04	14.3701E+04	15.2043E+04	9.04319E+03	10.5458E+04	10.8044E+04
10	9.56509E+03	11.4050E+04	11.7901E+04	71.7745E+03	79.4439E+03	80.3249E+03
12	80.5310E+03	81.9741E+03	93.7641E+03	56.9970E+03	60.9875E+03	61.2913E+03

## COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 30 IN. X 240 IN. AIR GAP = 7.0 IN. X = 0.00 Y = 0

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0602E-01	10.0541E-01	10.0496E-01	10.0761E-01	10.0701E-01	10.0655E-01
4	10.3143E-01	10.1829E-01	10.1629E-01	10.2791E-01	10.2469E-01	10.2269E-01
6	10.4370E-01	10.3626E-01	10.3192E-01	10.5824E-01	10.5070E-01	10.4660E-01
8	10.7134E-01	10.5821E-01	10.5107E-01	10.9711E-01	10.8416E-01	10.7781E-01
10	11.0340E-01	10.8356E-01	10.7343E-01	11.4366E-01	11.2468E-01	11.1622E-01
12	11.3921E-01	11.1392E-01	10.9870E-01	11.9740E-01	11.7214E-01	11.6183E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0903E-01	10.0888E-01	10.0859E-01	10.1082E-01	10.1135E-01	10.1131E-01
4	10.3610E-01	10.3368E-01	10.3201E-01	10.4737E-01	10.4596E-01	10.4469E-01
6	10.7877E-01	10.7240E-01	10.6897E-01	11.0753E-01	11.0229E-01	10.9938E-01
8	11.3585E-01	11.2449E-01	11.1946E-01	11.9001E-01	11.8041E-01	11.7665E-01
10	12.0643E-01	11.9000E-01	11.8377E-01	12.5494E-01	12.8116E-01	12.7689E-01
12	12.9059E-01	12.6928E-01	12.6230E-01	14.2332E-01	14.0597E-01	14.0109E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1326E-01	10.1456E-01	10.1478E-01	10.2053E-01	10.2348E-01	10.2422E-01
4	10.6219E-01	10.6180E-01	10.6090E-01	11.0337E-01	11.0484E-01	11.0455E-01
6	11.4492E-01	11.4088E-01	11.3881E-01	12.4828E-01	12.4622E-01	12.4511E-01
8	12.6093E-01	12.5299E-01	12.5028E-01	14.5904E-01	14.5378E-01	14.5246E-01
10	14.1181E-01	14.0525E-01	13.9769E-01	17.4443E-01	17.3694E-01	17.3581E-01
12	16.0067E-01	15.8681E-01	15.8421E-01	21.1755E-01	21.0885E-01	21.0799E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	19.9819E+04	37.0310E+04	51.7954E+04	19.6012E+04	35.6742E+04	49.0354E+04
4	18.4183E+04	32.2204E+04	43.0166E+04	17.7149E+04	29.9470E+04	38.7222E+04
6	17.0491E+04	28.4926E+04	36.7655E+04	16.0729E+04	25.5817E+04	31.5797E+04
8	15.8399E+04	25.5099E+04	32.0471E+04	14.6327E+04	22.1400E+04	28.3497E+04
10	14.7644E+04	23.0374E+04	28.3387E+04	13.3612E+04	19.3592E+04	22.3697E+04
12	13.8021E+04	20.9680E+04	25.3365E+04	12.2321E+04	17.0696E+04	19.2527E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	19.1922E+04	34.1981E+04	46.0638E+04	18.7649E+04	32.6939E+04	43.1329E+04
4	16.9449E+04	27.5377E+04	34.3869E+04	16.1499E+04	25.2173E+04	30.4670E+04
6	15.0059E+04	22.6256E+04	26.7176E+04	13.9289E+04	19.9342E+04	22.6269E+04
8	13.3273E+04	18.8830E+04	21.3828E+04	12.0439E+04	16.0646E+04	17.5091E+04
10	11.8670E+04	15.9597E+04	17.5109E+04	10.4390E+04	13.1617E+04	13.9331E+04
12	10.5927E+04	13.6304E+04	14.6045E+04	90.6742E+03	10.9215E+04	11.3391E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	18.3244E+04	31.2055E+04	40.3304E+04	17.4344E+04	28.3575E+04	35.2438E+04
4	15.3526E+04	23.0576E+04	27.0370E+04	13.7986E+04	19.2828E+04	21.5221E+04
6	12.8791E+04	17.5639E+04	19.3490E+04	10.9232E+04	13.7193E+04	14.4663E+04
8	10.8286E+04	13.7899E+04	14.5235E+04	86.6374E+03	10.1039E+04	10.3568E+04
10	91.2498E+03	10.9101E+04	11.2863E+04	68.8432E+03	76.3393E+03	77.1982E+03
12	77.0503E+03	88.1913E+03	89.9945E+03	54.8424E+03	58.7372E+03	59.0354E+03

RECTANGULAR SLAB SOURCE = 40 IN. X 20 IN.

AIR GAP = 0.0 IN.

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.3 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	99.2073E-02	10.0441E-01	10.0702E-01	10.1323E-01	10.1752E-01	10.1730E-01
4	10.5667E-01	10.5637E-01	10.5268E-01	10.9360E-01	10.8185E-01	10.7440E-01
6	11.3549E-01	11.3362E-01	11.2415E-01	12.0532E-01	11.7424E-01	11.6041E-01
8	12.7563E-01	12.3472E-01	12.1557E-01	13.3998E-01	12.6994E-01	12.7048E-01
10	14.1386E-01	13.5134E-01	13.2490E-01	14.9636E-01	14.2023E-01	14.0438E-01
12	15.6924E-01	14.8472E-01	14.5133E-01	16.7485E-01	15.6956E-01	15.6246E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3389E-01	10.3117E-01	10.2848E-01	10.5492E-01	10.4389E-01	10.4100E-01
4	11.3415E-01	11.1251E-01	11.0282E-01	11.7950E-01	11.4915E-01	11.3749E-01
6	12.0764E-01	12.2728E-01	12.1224E-01	13.4345E-01	12.9532E-01	12.7967E-01
8	14.3001E-01	13.7331E-01	13.5561E-01	15.4650E-01	14.8494E-01	14.6648E-01
10	16.2240E-01	15.5174E-01	15.3192E-01	17.9288E-01	17.2158E-01	17.0584E-01
12	18.4723E-01	17.6478E-01	17.4475E-01	20.8823E-01	20.1019E-01	19.9611E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.7680E-01	10.6197E-01	10.5512E-01	11.2413E-01	10.9883E-01	10.8848E-01
4	12.3038E-01	11.9239E-01	11.7903E-01	13.5050E-01	12.9963E-01	12.8440E-01
6	14.3370E-01	13.7515E-01	13.6396E-01	16.6154E-01	15.9807E-01	15.8474E-01
8	16.9117E-01	16.2636E-01	16.1209E-01	20.7542E-01	20.0837E-01	19.9854E-01
10	20.1149E-01	19.4105E-01	19.2899E-01	26.1701E-01	25.5174E-01	25.4519E-01
12	24.0541E-01	23.3271E-01	23.2314E-01	33.1783E-01	32.5715E-01	32.5305E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CH.) FOR 2x4x6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	34.6990E+04	58.6683E+04	76.1681E+04	33.1744E+04	55.6244E+04	71.7830E+04
4	28.6517E+04	43.8483E+04	53.1345E+04	27.0343E+04	40.9919E+04	49.1140E+04
6	23.9692E+04	34.3027E+04	39.9811E+04	22.4480E+04	31.7035E+04	34.2994E+04
8	20.3548E+04	27.8525E+04	31.5124E+04	18.9334E+04	25.3578E+04	28.1207E+04
10	17.4998E+04	23.1002E+04	25.6332E+04	16.1586E+04	20.7545E+04	22.4942E+04
12	15.1965E+04	19.5012E+04	21.3313E+04	13.3176E+04	17.2034E+04	18.4161E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	31.6747E+04	52.3619E+04	66.8134E+04	30.2200E+04	49.1325E+04	61.7867E+04
4	25.3002E+04	37.5519E+04	44.2480E+04	23.5431E+04	34.9925E+04	39.3888E+04
6	20.8972E+04	28.4234E+04	31.8217E+04	18.8825E+04	25.1274E+04	27.5160E+04
8	17.1920E+04	22.2993E+04	24.0661E+04	15.3819E+04	19.1302E+04	20.3394E+04
10	14.4515E+04	17.8558E+04	18.8731E+04	12.6842E+04	15.1728E+04	15.6233E+04
12	12.2510E+04	14.5930E+04	15.1651E+04	10.5393E+04	12.3568E+04	12.3311E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	28.8264E+04	45.9619E+04	56.9668E+04	26.2433E+04	40.2275E+04	48.3519E+04
4	21.8042E+04	30.8223E+04	34.8987E+04	18.8029E+04	29.0802E+04	27.4072E+04
6	17.1395E+04	22.0699E+04	23.6211E+04	13.9842E+04	16.9281E+04	17.6599E+04
8	13.6555E+04	16.4566E+04	17.1794E+04	10.5984E+04	12.0370E+04	12.2583E+04
10	11.0059E+04	12.4272E+04	12.9120E+04	81.2438E+03	88.1152E+03	89.0221E+03
12	89.3806E+03	98.8978E+03	10.0131E+04	62.7437E+03	66.2567E+03	66.4859E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 40 IN. X 20 IN.

AIR GAP = 1.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2759E-01	10.2617E-01	10.2173E-01	10.3849E-01	10.3143E-01	10.2761E-01
4	10.9708E-01	10.8010E-01	10.7140E-01	11.1958E-01	10.9662E-01	10.9031E-01
6	11.9131E-01	11.5700E-01	11.4120E-01	12.2933E-01	11.8316E-01	11.6883E-01
8	13.0455E-01	12.519E-01	12.2867E-01	13.5216E-01	12.9499E-01	12.7349E-01
10	14.3479E-01	13.6184E-01	13.3236E-01	14.9951E-01	14.2989E-01	14.0065E-01
12	15.8119E-01	14.8778E-01	14.5178E-01	16.6767E-01	15.7832E-01	15.5017E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.4931E-01	10.3932E-01	10.3445E-01	10.6071E-01	10.4824E-01	10.4249E-01
4	11.4557E-01	11.1807E-01	11.0682E-01	11.7626E-01	11.4501E-01	11.3320E-01
6	12.7064E-01	12.2660E-01	12.1069E-01	13.2846E-01	12.8160E-01	12.6660E-01
8	14.2304E-01	13.6441E-01	13.4571E-01	15.1822E-01	14.5936E-01	14.4353E-01
10	16.0397E-01	15.3277E-01	15.1284E-01	17.4929E-01	16.8161E-01	16.6653E-01
12	18.1559E-01	17.3368E-01	17.1372E-01	20.2662E-01	19.5282E-01	19.3934E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.7310E-01	10.5841E-01	10.5190E-01	11.0165E-01	10.8307E-01	10.7524E-01
4	12.1233E-01	11.7783E-01	11.6575E-01	13.0232E-01	12.6233E-01	12.5035E-01
6	13.9972E-01	13.5073E-01	13.3692E-01	15.8604E-01	15.3453E-01	15.2345E-01
8	16.3930E-01	15.8096E-01	15.6792E-01	19.6789E-01	19.1233E-01	18.9400E-01
10	19.3865E-01	18.7500E-01	18.6392E-01	24.6992E-01	24.1502E-01	24.0040E-01
12	23.0736E-01	22.4145E-01	22.3262E-01	31.2073E-01	30.6913E-01	30.4557E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/50.CH.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	29.0167E+04	49.5057E+04	64.7733E+04	28.2675E+04	47.7913E+04	62.0841E+04
4	24.1775E+04	37.5402E+04	45.8970E+04	23.2561E+04	35.6473E+04	43.0569E+04
6	20.4890E+04	29.8113E+04	38.9660E+04	19.5238E+04	27.8913E+04	32.1325E+04
8	17.5943E+04	24.5973E+04	27.7979E+04	16.8194E+04	22.4935E+04	25.0742E+04
10	15.2676E+04	20.4022E+04	22.7996E+04	14.2828E+04	18.5340E+04	20.1732E+04
12	13.3627E+04	17.3430E+04	19.0742E+04	12.3912E+04	15.5206E+04	16.5944E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	27.4556E+04	45.7559E+04	58.7214E+04	26.6061E+04	43.5725E+04	55.1044E+04
4	22.1443E+04	33.2156E+04	39.3539E+04	20.9876E+04	30.6113E+04	35.5017E+04
6	18.3002E+04	25.3671E+04	28.5312E+04	16.9664E+04	22.7274E+04	24.9625E+04
8	15.3268E+04	20.0002E+04	21.7154E+04	13.9187E+04	17.4722E+04	18.5368E+04
10	12.9656E+04	16.1296E+04	17.0921E+04	11.5319E+04	13.7676E+04	14.2899E+04
12	11.0513E+04	13.2319E+04	13.7861E+04	98.2374E+03	11.0511E+04	11.3133E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	25.7373E+04	41.3500E+04	51.4749E+04	23.9937E+04	37.0305E+04	44.6534E+04
4	19.7825E+04	28.0343E+04	31.8349E+04	17.4201E+04	23.3191E+04	25.5201E+04
6	15.6127E+04	20.2093E+04	21.7327E+04	13.0349E+04	15.8410E+04	16.5138E+04
8	12.9109E+04	15.1362E+04	15.7724E+04	99.1832E+03	11.2822E+04	11.4498E+04
10	10.1290E+04	11.8523E+04	11.9239E+04	76.2288E+03	82.9565E+03	85.8350E+03
12	82.9191E+03	91.5199E+03	92.7066E+03	58.9906E+03	62.3428E+03	62.5695E+03

RECTANGULAR SLAB SOURCE = 40 IN. X 20 IN.

AIR GAP = 2.0 IN.

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2529E-01	10.2160E-01	10.1932E-01	10.3067E-01	10.2543E-01	10.2355E-01
4	10.8417E-01	10.6993E-01	10.6200E-01	10.9709E-01	10.7972E-01	10.7161E-01
6	11.6466E-01	11.3562E-01	11.2199E-01	11.8638E-01	11.5497E-01	11.4166E-01
8	12.6250E-01	12.1721E-01	11.9731E-01	12.9536E-01	12.4942E-01	12.3198E-01
10	13.7981E-01	13.1305E-01	12.8700E-01	14.2912E-01	13.6276E-01	13.4127E-01
12	15.0364E-01	14.2266E-01	13.9055E-01	15.6966E-01	14.9527E-01	14.7101E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3568E-01	10.2959E-01	10.2642E-01	10.4093E-01	10.3445E-01	10.3113E-01
4	11.1241E-01	10.9374E-01	10.8562E-01	11.3143E-01	11.1211E-01	11.0424E-01
6	12.1701E-01	11.8515E-01	11.7300E-01	12.5808E-01	12.2652E-01	12.1576E-01
8	13.4741E-01	13.0319E-01	12.8832E-01	14.2019E-01	13.7839E-01	13.6632E-01
10	15.0402E-01	14.4873E-01	14.3255E-01	16.2011E-01	15.7031E-01	15.5864E-01
12	16.8827E-01	16.2335E-01	16.0685E-01	18.6169E-01	18.0592E-01	17.9525E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.4682E-01	10.4020E-01	10.3683E-01	10.6160E-01	10.5497E-01	10.5159E-01
4	11.5491E-01	11.3523E-01	11.2772E-01	12.1713E-01	11.9686E-01	11.9015E-01
6	13.1062E-01	12.7961E-01	12.7024E-01	14.5341E-01	14.2365E-01	14.1677E-01
8	15.1525E-01	14.7600E-01	14.6669E-01	17.7970E-01	17.4533E-01	17.3975E-01
10	17.7424E-01	17.2963E-01	17.2143E-01	22.1343E-01	21.7778E-01	21.7393E-01
12	20.9525E-01	20.4768E-01	20.4099E-01	27.7853E-01	27.4392E-01	27.4140E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,+6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	24.3674E+04	42.0462E+04	55.4592E+04	23.9693E+04	41.0041E+04	53.6900E+04
4	20.6098E+04	32.4317E+04	39.9813E+04	20.0510E+04	31.1177E+04	37.8614E+04
6	17.6788E+04	26.0631E+04	30.7842E+04	17.0388E+04	24.6219E+04	28.5437E+04
8	15.3311E+04	21.5253E+04	24.6918E+04	14.6376E+04	20.0270E+04	24.6356E+04
10	13.4130E+04	18.1341E+04	20.2690E+04	12.6839E+04	16.6057E+04	18.1522E+04
12	11.8220E+04	15.5112E+04	17.1509E+04	11.0667E+04	13.9815E+04	15.0024E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	23.5066E+04	39.6652E+04	51.2975E+04	22.9952E+04	38.1692E+04	48.6098E+04
4	19.3329E+04	29.3056E+04	34.9383E+04	18.5150E+04	27.2872E+04	31.8111E+04
6	16.1586E+04	22.6210E+04	25.5453E+04	15.1540E+04	20.4670E+04	22.5945E+04
8	13.6548E+04	17.9700E+04	19.5820E+04	12.5389E+04	15.8129E+04	16.8492E+04
10	11.6323E+04	14.5764E+04	15.4882E+04	10.4566E+04	12.5991E+04	13.0462E+04
12	99.7268E+03	12.0147E+04	12.5428E+04	87.7227E+03	10.1159E+04	10.3665E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	22.4480E+04	36.9444E+04	45.0164E+04	21.2862E+04	33.2832E+04	40.1842E+04
4	17.6404E+04	25.2327E+04	28.7763E+04	15.8371E+04	21.3524E+04	23.4295E+04
6	14.0964E+04	18.3431E+04	19.8030E+04	11.9070E+04	14.6384E+04	15.2773E+04
8	11.3885E+04	13.8444E+04	14.6498E+04	91.9376E+03	10.4831E+04	10.6073E+04
10	92.7199E+03	10.7100E+04	10.9691E+04	71.0094E+03	77.4630E+03	78.0541E+03
12	75.9231E+03	84.4364E+03	85.5684E+03	55.1934E+03	50.3509E+03	50.5634E+03

RECTANGULAR SLAB SOURCE = 40 IN. X 20 IN.

AIR GAP = 3.0 IN.

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2070E-01	10.1792E-01	10.1618E-01	10.2329E-01	10.1995E-01	10.1799E-01
4	10.7009E-01	10.5872E-01	10.5261E-01	10.7739E-01	10.6510E-01	10.5990E-01
6	11.3913E-01	11.1571E-01	11.0424E-01	11.5291E-01	11.2924E-01	11.1663E-01
8	12.2411E-01	11.8659E-01	11.6944E-01	12.4682E-01	12.1077E-01	11.9607E-01
10	13.2322E-01	12.7023E-01	12.4740E-01	13.5803E-01	13.0933E-01	12.9123E-01
12	14.3546E-01	13.6605E-01	13.3764E-01	14.8628E-01	14.2907E-01	14.0491E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2531E-01	10.2209E-01	10.2021E-01	10.2723E-01	10.2466E-01	10.2303E-01
4	10.8517E-01	10.7442E-01	10.6883E-01	10.9776E-01	10.8721E-01	10.8235E-01
6	11.7363E-01	11.5165E-01	11.4263E-01	12.0307E-01	11.8340E-01	11.7605E-01
8	12.8542E-01	12.5915E-01	12.4166E-01	13.4185E-01	13.1374E-01	13.0515E-01
10	14.2143E-01	13.7954E-01	13.6660E-01	15.1552E-01	14.8035E-01	14.7155E-01
12	15.8299E-01	15.3206E-01	15.1858E-01	17.2696E-01	16.8622E-01	16.7795E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2960E-01	10.2788E-01	10.2658E-01	10.3626E-01	10.3677E-01	10.3619E-01
4	11.1297E-01	11.0386E-01	10.9974E-01	11.5628E-01	11.4981E-01	11.4694E-01
6	12.4233E-01	12.2499E-01	12.1912E-01	13.5361E-01	13.4008E-01	13.3644E-01
8	14.1769E-01	13.9345E-01	13.8717E-01	16.3416E-01	16.1599E-01	16.1275E-01
10	16.4290E-01	16.1361E-01	16.0780E-01	20.1183E-01	19.9136E-01	19.8893E-01
12	19.2415E-01	18.9156E-01	18.8665E-01	25.0674E-01	24.8570E-01	24.8404E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	20.7116E+04	36.1019E+04	47.9603E+04	20.4800E+04	35.4316E+04	44.7311E+04
4	17.7523E+04	28.7696E+04	35.1162E+04	17.3961E+04	27.5145E+04	33.4694E+04
6	15.3843E+04	22.9546E+04	27.3110E+04	14.9426E+04	21.8378E+04	25.4714E+04
8	13.4569E+04	19.1155E+04	22.0700E+04	12.9484E+04	17.8951E+04	20.1563E+04
10	11.8585E+04	16.2111E+04	18.3155E+04	11.2995E+04	14.9333E+04	16.3962E+04
12	10.5175E+04	13.9477E+04	15.4997E+04	9.1840E+03	12.6380E+04	13.6088E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	20.2084E+04	34.5012E+04	44.9530E+04	19.8838E+04	33.4036E+04	42.8799E+04
4	14.9634E+04	25.9161E+04	31.0827E+04	16.3162E+04	24.3103E+04	28.4870E+04
6	14.2928E+04	20.2111E+04	22.9545E+04	13.5190E+04	18.4211E+04	20.3816E+04
8	12.1835E+04	16.1742E+04	17.6910E+04	11.2841E+04	14.3607E+04	15.3117E+04
10	10.4518E+04	13.1952E+04	14.8993E+04	9.4764E+03	11.4348E+04	11.9096E+04
12	9.01270E+03	10.9273E+04	11.4309E+04	79.9411E+03	92.5987E+03	94.9947E+03

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	19.5236E+04	32.2054E+04	40.4774E+04	18.7262E+04	29.6873E+04	36.2717E+04
4	15.6048E+04	22.6406E+04	29.9616E+04	14.2761E+04	19.4118E+04	21.3698E+04
6	12.4818E+04	16.6470E+04	18.8011E+04	10.9611E+04	13.4444E+04	14.8521E+04
8	10.1371E+04	12.6399E+04	13.2105E+04	8.47328E+03	96.9457E+03	98.8782E+03
10	8.47203E+03	98.2712E+03	10.8734E+04	83.8443E+03	71.9288E+03	72.5459E+03
12	69.7376E+03	77.7958E+03	78.8782E+04	51.3769E+03	54.4266E+03	54.6207E+03



COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 40 IN. X 20 IN.

AIR GAP = 4.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1711E-01	10.1507E-01	10.1373E-01	10.1821E-01	10.1608E-01	10.1473E-01
4	10.5827E-01	10.5035E-01	10.4532E-01	10.6314E-01	10.5435E-01	10.4767E-01
6	11.1939E-01	11.0025E-01	10.9046E-01	11.2792E-01	11.0972E-01	11.0131E-01
8	11.7423E-01	11.6267E-01	11.4772E-01	12.0995E-01	11.8123E-01	11.6897E-01
10	12.8298E-01	12.3660E-01	12.1638E-01	13.0779E-01	12.6804E-01	12.5261E-01
12	13.6172E-01	13.2143E-01	12.9603E-01	14.2132E-01	13.7037E-01	13.5248E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1861E-01	10.1705E-01	10.1599E-01	10.1877E-01	10.1829E-01	10.1769E-01
4	10.6779E-01	10.6063E-01	10.5682E-01	10.7455E-01	10.6755E-01	10.6499E-01
6	11.4178E-01	11.2694E-01	11.2026E-01	11.6319E-01	11.5194E-01	11.4711E-01
8	12.3443E-01	12.1542E-01	12.0447E-01	12.6339E-01	12.4541E-01	12.3931E-01
10	13.5831E-01	13.2639E-01	13.1619E-01	14.3602E-01	14.1195E-01	14.0540E-01
12	15.0088E-01	14.6149E-01	14.5040E-01	16.2333E-01	15.9417E-01	15.8781E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1964E-01	10.2000E-01	10.1995E-01	10.2092E-01	10.2531E-01	10.2644E-01
4	10.8427E-01	10.8208E-01	10.8032E-01	11.1467E-01	11.1736E-01	11.1710E-01
6	11.9305E-01	11.8538E-01	11.7780E-01	12.6185E-01	12.7972E-01	12.7847E-01
8	13.4514E-01	13.3195E-01	13.2003E-01	15.2421E-01	15.2010E-01	15.1899E-01
10	15.4342E-01	15.2573E-01	15.2179E-01	18.5971E-01	18.5073E-01	18.4941E-01
12	17.9298E-01	17.7193E-01	17.6844E-01	22.9936E-01	22.8075E-01	22.8777E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	17.614E+04	31.3001E+04	41.8527E+04	17.6788E+04	30.8563E+04	40.9632E+04
4	15.4326E+04	24.8377E+04	31.0688E+04	15.1965E+04	24.1179E+04	29.7484E+04
6	13.4941E+04	20.3593E+04	24.3824E+04	13.1775E+04	19.4631E+04	22.8364E+04
8	11.8897E+04	17.0750E+04	19.8370E+04	11.5070E+04	16.0624E+04	18.1840E+04
10	10.5446E+04	14.5678E+04	16.5522E+04	10.1049E+04	13.4895E+04	14.8622E+04
12	94.0505E+03	12.5957E+04	14.0722E+04	89.2140E+03	11.4632E+04	12.3873E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	17.4998E+04	30.1837E+04	39.5963E+04	17.2838E+04	29.3605E+04	37.9267E+04
4	14.8462E+04	23.0901E+04	27.7739E+04	14.4116E+04	21.7817E+04	25.5752E+04
6	12.6839E+04	18.1132E+04	20.6729E+04	12.0767E+04	16.6018E+04	18.4400E+04
8	10.8997E+04	14.5957E+04	16.0246E+04	10.1671E+04	13.0386E+04	15.2300E+04
10	94.1259E+03	11.4723E+04	12.7923E+04	89.9417E+03	10.4324E+04	12.0429E+04
12	81.6209E+03	99.5942E+03	10.4400E+04	72.9078E+03	84.8344E+03	87.1171E+03

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	17.0364E+04	28.4393E+04	36.1755E+04	16.4699E+04	26.4493E+04	32.5382E+04
4	15.9178E+04	20.3261E+04	23.3954E+04	12.8241E+04	17.5992E+04	19.4516E+04
6	11.4529E+04	15.0695E+04	16.3611E+04	99.793E+03	12.3112E+04	12.8883E+04
8	93.7598E+03	11.5363E+04	12.8738E+04	77.8426E+03	89.3872E+03	91.2340E+03
10	77.3615E+03	90.1174E+03	92.4784E+03	68.8894E+03	64.6611E+03	67.2811E+03
12	64.0254E+03	71.6509E+03	72.6910E+03	47.7511E+03	50.6584E+03	59.9572E+03

RECTANGULAR SLAB SOURCE = 40 IN. X 20 IN.

AIR GAP = 5.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1447E-01	10.1294E-01	10.1188E-01	10.1472E-01	10.1333E-01	10.1238E-01
4	10.5110E-01	10.4394E-01	10.3973E-01	10.5277E-01	10.4637E-01	10.4272E-01
6	11.0417E-01	10.8822E-01	10.7974E-01	11.0911E-01	10.9512E-01	10.8810E-01
8	11.7083E-01	11.4388E-01	11.3065E-01	11.8141E-01	11.5835E-01	11.4799E-01
10	12.4942E-01	12.0996E-01	11.9184E-01	12.6855E-01	12.3568E-01	12.2238E-01
12	13.3896E-01	12.8591E-01	12.6291E-01	13.7006E-01	13.2714E-01	13.1144E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1419E-01	10.1359E-01	10.1304E-01	10.1329E-01	10.1399E-01	10.1403E-01
4	10.5670E-01	10.5060E-01	10.4805E-01	10.5821E-01	10.5720E-01	10.5591E-01
6	11.1829E-01	11.0837E-01	11.0344E-01	11.3374E-01	11.2851E-01	11.2597E-01
8	12.0330E-01	11.8649E-01	11.7992E-01	12.3897E-01	12.2857E-01	12.2441E-01
10	13.0931E-01	12.8541E-01	12.7703E-01	13.7453E-01	13.5500E-01	13.5424E-01
12	14.3673E-01	14.0605E-01	13.9690E-01	15.4223E-01	15.2215E-01	15.1733E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1235E-01	10.1474E-01	10.1547E-01	10.1127E-01	10.1776E-01	10.1995E-01
4	10.6414E-01	10.6452E-01	10.6645E-01	10.8543E-01	10.9431E-01	10.9608E-01
6	11.5672E-01	11.5601E-01	11.5469E-01	12.2893E-01	12.3507E-01	12.3567E-01
8	12.9011E-01	12.8531E-01	12.8316E-01	14.4436E-01	14.4743E-01	14.4728E-01
10	14.6662E-01	14.5790E-01	14.5566E-01	17.4251E-01	17.4247E-01	17.4204E-01
12	16.9054E-01	16.7877E-01	16.7623E-01	21.3793E-01	21.3555E-01	21.3511E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	15.4495E+04	27.3847E+04	36.8102E+04	15.3863E+04	27.0696E+04	36.1461E+04
4	13.5240E+04	21.9740E+04	27.6441E+04	13.3627E+04	21.4162E+04	26.5811E+04
6	11.9152E+04	18.1625E+04	21.8498E+04	11.6834E+04	17.4292E+04	20.5673E+04
8	10.5672E+04	15.3327E+04	17.9194E+04	10.2728E+04	14.4774E+04	16.4709E+04
10	94.2954E+03	13.1533E+04	15.0274E+04	90.7642E+03	12.2145E+04	10.5229E+04
12	84.3001E+03	11.4265E+04	12.8331E+04	80.5347E+03	10.4330E+04	10.3135E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	15.2476E+04	26.5672E+04	35.0646E+04	15.1183E+04	25.9317E+04	33.7375E+04
4	13.1054E+04	20.5151E+04	24.9698E+04	12.7755E+04	19.4323E+04	23.0277E+04
6	11.2995E+04	16.2898E+04	18.6815E+04	10.8135E+04	14.9959E+04	16.7211E+04
8	97.8220E+03	13.2104E+04	14.5581E+04	91.7549E+03	11.8451E+04	12.6584E+04
10	84.9969E+03	10.8914E+04	11.6703E+04	78.0568E+03	93.3089E+03	99.5973E+03
12	74.0956E+03	90.9890E+03	95.5794E+03	66.5674E+03	77.8282E+03	80.0233E+03

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	14.9426E+04	25.2058E+04	32.2725E+04	14.5264E+04	23.4307E+04	29.2234E+04
4	12.3912E+04	18.2713E+04	21.1374E+04	11.5179E+04	15.9506E+04	17.6839E+04
6	10.2637E+04	13.4854E+04	14.8876E+04	90.7409E+03	11.2621E+04	11.8103E+04
8	85.0908E+03	10.5271E+04	11.0433E+04	71.4092E+03	82.3174E+03	84.0826E+03
10	70.4692E+03	82.6918E+03	84.9473E+03	56.2295E+03	61.7189E+03	62.2870E+03
12	58.8004E+03	64.0228E+03	67.0219E+03	44.3271E+03	47.0992E+03	47.2894E+03

RECTANGULAR SLAB SOURCE = 40 IN. X 20 IN.

AIR GAP = 6.0 IN.

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1255E-01	10.1130E-01	10.1049E-01	10.1223E-01	10.1130E-01	10.1062E-01
4	10.4470E-01	10.3890E-01	10.3531E-01	10.4499E-01	10.4024E-01	10.3739E-01
6	10.9211E-01	10.7862E-01	10.7117E-01	10.9659E-01	10.8354E-01	10.7779E-01
8	11.5211E-01	11.2873E-01	11.1690E-01	11.5894E-01	11.4015E-01	11.3131E-01
10	12.7309E-01	11.8634E-01	11.7194E-01	12.3713E-01	12.0967E-01	11.9810E-01
12	13.0413E-01	12.5692E-01	12.3593E-01	13.2652E-01	12.9215E-01	12.7831E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1113E-01	10.1109E-01	10.1087E-01	10.0959E-01	10.1095E-01	10.1139E-01
4	10.4536E-01	10.4302E-01	10.4139E-01	10.4428E-01	10.4782E-01	10.4762E-01
6	11.0223E-01	10.9398E-01	10.9040E-01	11.1132E-01	11.1049E-01	11.0902E-01
8	11.7544E-01	11.6368E-01	11.5829E-01	12.0429E-01	11.9969E-01	11.9709E-01
10	12.7031E-01	12.5259E-01	12.4582E-01	13.2572E-01	13.1594E-01	13.1366E-01
12	13.8511E-01	13.6142E-01	13.5388E-01	14.7716E-01	14.6438E-01	14.6085E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0789E-01	10.1106E-01	10.1228E-01	10.0492E-01	10.1252E-01	10.1540E-01
4	10.4950E-01	10.5499E-01	10.5616E-01	10.6416E-01	10.7733E-01	10.8056E-01
6	11.2911E-01	11.3354E-01	11.3375E-01	11.8812E-01	12.0104E-01	12.0309E-01
8	12.4720E-01	12.4885E-01	12.4816E-01	13.8057E-01	13.9083E-01	13.9179E-01
10	14.0577E-01	14.3418E-01	14.0297E-01	16.4985E-01	16.5699E-01	16.5727E-01
12	16.0852E-01	16.0388E-01	16.0250E-01	20.0912E-01	20.1339E-01	20.1342E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ. CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	13.5462E+04	24.1311E+04	32.5969E+04	13.4941E+04	23.9055E+04	32.0802E+04
4	11.9347E+04	19.5597E+04	24.7723E+04	11.8220E+04	19.1174E+04	23.8673E+04
6	10.5850E+04	16.2885E+04	19.7505E+04	10.4114E+04	15.6762E+04	18.6026E+04
8	94.4217E+03	13.8341E+04	16.2612E+04	92.1133E+03	13.1008E+04	14.9768E+04
10	84.6375E+03	11.9277E+04	13.7001E+04	81.8272E+03	11.1071E+04	12.3477E+04
12	76.2503E+03	10.4073E+04	11.7430E+04	72.9543E+03	95.2673E+03	10.3664E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	13.4130E+04	23.5199E+04	31.2175E+04	13.3064E+04	23.0178E+04	30.1210E+04
4	11.6284E+04	18.3722E+04	22.4325E+04	11.3718E+04	17.4604E+04	20.7982E+04
6	10.1069E+04	14.7028E+04	16.9404E+04	97.1135E+03	15.5819E+04	15.2027E+04
8	88.0856E+03	11.9939E+04	13.2663E+04	82.9989E+03	10.7915E+04	11.5980E+04
10	76.9757E+03	99.3545E+03	10.6760E+04	71.0326E+03	87.2404E+03	91.3287E+03
12	67.4373E+03	83.3393E+03	87.7233E+03	60.8865E+03	71.5220E+03	73.6252E+03

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	13.1775E+04	22.4331E+04	28.8954E+04	12.8638E+04	21.1160E+04	26.3063E+04
4	11.0667E+04	16.4716E+04	19.1446E+04	10.3579E+04	14.4709E+04	16.1012E+04
6	92.5556E+03	12.4279E+04	13.5717E+04	82.5220E+03	10.3047E+04	10.8253E+04
8	77.3288E+03	96.2453E+03	10.1151E+04	65.4880E+03	75.7943E+03	77.4814E+03
10	67.6236E+03	75.9622E+03	78.1181E+03	51.9031E+03	57.1091E+03	57.6624E+03
12	54.0491E+03	60.8940E+03	61.8532E+03	41.1296E+03	43.7732E+03	43.9363E+03

RECTANGULAR SLAB SOURCE = 40 IN. X 20 IN.

AIR GAP = 7.0 IN.

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1097E-01	10.1001E-01	10.0931E-01	10.1030E-01	10.0975E-01	10.0926E-01
4	10.3976E-01	10.3483E-01	10.3172E-01	10.3895E-01	10.3539E-01	10.3308E-01
6	10.8745E-01	10.7076E-01	10.6415E-01	10.8295E-01	10.7423E-01	10.6935E-01
8	11.3677E-01	11.1623E-01	11.0596E-01	11.4073E-01	11.2529E-01	11.1769E-01
10	11.8139E-01	11.7040E-01	11.5544E-01	12.1196E-01	11.8827E-01	11.7815E-01
12	12.7516E-01	12.5275E-01	12.4347E-01	12.9436E-01	12.6310E-01	12.5092E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0893E-01	10.0922E-01	10.0923E-01	10.0697E-01	10.0870E-01	10.0940E-01
4	10.3970E-01	10.3710E-01	10.3617E-01	10.3727E-01	10.4057E-01	10.4118E-01
6	10.8600E-01	10.8250E-01	10.7999E-01	10.9375E-01	10.9622E-01	10.9593E-01
8	11.3904E-01	11.4522E-01	11.4113E-01	11.7690E-01	11.7646E-01	11.7516E-01
10	12.3890E-01	12.2970E-01	12.2034E-01	12.9606E-01	12.8273E-01	12.0095E-01
12	13.4262E-01	13.2467E-01	13.1850E-01	14.2377E-01	14.1701E-01	14.1458E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0479E-01	10.0837E-01	10.0990E-01	10.0056E-01	10.0874E-01	10.1205E-01
4	10.3852E-01	10.4613E-01	10.4822E-01	10.4819E-01	10.6439E-01	10.6874E-01
6	11.0753E-01	11.1584E-01	11.1727E-01	11.3693E-01	11.7437E-01	11.7761E-01
8	12.1289E-01	12.1864E-01	12.2017E-01	13.2963E-01	13.4564E-01	13.4754E-01
10	13.5642E-01	13.6061E-01	13.6045E-01	15.7488E-01	15.8783E-01	15.8800E-01
12	15.4138E-01	15.4289E-01	15.4225E-01	19.0494E-01	19.1386E-01	19.1428E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ. CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	17.0677E+00	21.4024E+00	29.0399E+00	11.9152E+00	21.2375E+00	28.6420E+00
4	10.5473E+00	17.5016E+00	22.2957E+00	10.5175E+00	17.1485E+00	21.5274E+00
6	9.4132E+00	14.6788E+00	17.9017E+00	93.2230E+03	14.1627E+00	16.8930E+00
8	9.4132E+00	12.5363E+00	14.8174E+00	82.9407E+03	11.8998E+00	13.6677E+00
10	10.5473E+00	10.8595E+00	12.5379E+00	74.0452E+03	10.1349E+00	11.3123E+00
12	12.7516E+00	95.1385E+03	10.7854E+00	66.3102E+03	87.2654E+03	95.2811E+03

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	21.6788E+00	20.9349E+00	17.9267E+00	11.7804E+00	20.5300E+00	27.0083E+00
4	10.5473E+00	16.5225E+00	20.7810E+00	10.1649E+00	15.7446E+00	16.8473E+00
6	10.7462E+00	13.3176E+00	15.4145E+00	87.4964E+03	12.3368E+00	13.0611E+00
8	9.4132E+00	10.9234E+00	12.1262E+00	79.2740E+03	98.3547E+03	18.6203E+00
10	10.5473E+00	90.8871E+03	97.9339E+03	64.7824E+03	80.8251E+03	89.9254E+03
12	12.7516E+00	76.5189E+03	80.7168E+03	59.7971E+03	69.8914E+03	67.8678E+03

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	23.6714E+00	20.0309E+00	25.9491E+00	11.4410E+00	16.9335E+00	23.7455E+00
4	10.5473E+00	14.9427E+00	17.8878E+00	93.3461E+03	13.1512E+00	14.6847E+00
6	10.7462E+00	11.3293E+00	12.9994E+00	79.1247E+03	94.3795E+03	99.3248E+03
8	9.4132E+00	88.1807E+03	92.6194E+03	60.8849E+03	69.8233E+03	71.4307E+03
10	10.5473E+00	69.8094E+03	71.9428E+03	47.9199E+03	52.8652E+03	53.8767E+03
12	12.7516E+00	56.2347E+03	57.1542E+03	38.1642E+03	40.6878E+03	40.8643E+03

RECTANGULAR SLAB SOURCE = 40 IN. X 60 IN.

AIP GAP = -0.0 IN.

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	98.3218E-02	99.3805E-02	99.7391E-02	10.0354E-01	10.0679E-01	10.0727E-01
4	98.9088E-02	10.0400E-01	10.0715E-01	10.3441E-01	10.3321E-01	10.3092E-01
6	10.2111E-01	10.2995E-01	10.3000E-01	10.8542E-01	10.7463E-01	10.6873E-01
8	10.6701E-01	10.6646E-01	10.6265E-01	11.4882E-01	11.2780E-01	11.1866E-01
10	11.2189E-01	11.1097E-01	11.0319E-01	12.2216E-01	11.9152E-01	11.7976E-01
12	11.8386E-01	11.5232E-01	11.5066E-01	13.0484E-01	12.6947E-01	12.5173E-01
TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2355E-01	10.2042E-01	10.1827E-01	10.4443E-01	10.3542E-01	10.3091E-01
4	10.8107E-01	10.6668E-01	10.6000E-01	11.3180E-01	11.0615E-01	10.9600E-01
6	11.5865E-01	11.3175E-01	11.2145E-01	12.4403E-01	12.0384E-01	11.9061E-01
8	12.9166E-01	12.1399E-01	12.0150E-01	13.7926E-01	13.2848E-01	13.1449E-01
10	13.9959E-01	13.1337E-01	12.9995E-01	15.3912E-01	14.8150E-01	14.6827E-01
12	14.8319E-01	14.3051E-01	14.1707E-01	17.2634E-01	16.6494E-01	16.5328E-01
TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.6662E-01	10.5204E-01	10.4542E-01	11.1544E-01	10.9048E-01	10.8031E-01
4	11.8772E-01	11.5234E-01	11.3959E-01	13.1714E-01	12.6629E-01	12.5068E-01
6	13.4317E-01	12.9229E-01	12.7750E-01	15.8736E-01	15.2212E-01	15.0746E-01
8	15.3436E-01	14.7397E-01	14.6000E-01	19.3834E-01	18.6809E-01	18.5693E-01
10	17.6597E-01	17.0107E-01	16.8930E-01	23.8755E-01	23.1839E-01	23.1084E-01
12	20.4409E-01	19.7839E-01	19.6916E-01	29.5612E-01	28.9211E-01	28.8736E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/50. CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	37.9505E+04	68.8294E+04	93.9547E+04	35.6344E+04	63.2126E+04	85.0777E+04
4	34.3891E+04	57.2127E+04	73.3502E+04	31.2827E+04	50.9125E+04	64.1194E+04
6	30.0789E+04	48.3940E+04	59.4802E+04	27.5782E+04	42.1009E+04	50.5402E+04
8	27.7895E+04	41.5912E+04	49.5379E+04	24.4800E+04	35.4687E+04	41.0327E+04
10	25.1253E+04	34.2114E+04	42.0904E+04	21.8551E+04	30.3043E+04	34.0540E+04
12	22.8235E+04	31.8637E+04	36.3244E+04	19.6296E+04	26.1828E+04	28.7533E+04
TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	33.5286E+04	57.9170E+04	76.4245E+04	31.6183E+04	53.1352E+04	68.6345E+04
4	28.3988E+04	44.6755E+04	54.7624E+04	25.8079E+04	39.1031E+04	48.5773E+04
6	24.3882E+04	35.7129E+04	41.4992E+04	21.5170E+04	30.5122E+04	39.8996E+04
8	21.1641E+04	29.2089E+04	32.6103E+04	18.1804E+04	23.8533E+04	25.8107E+04
10	18.5076E+04	24.2817E+04	26.3249E+04	15.4993E+04	19.2877E+04	20.3691E+04
12	16.2767E+04	20.4742E+04	21.7017E+04	13.2972E+04	15.8411E+04	16.3819E+04
TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	29.6817E+04	48.8820E+04	61.8198E+04	26.8472E+04	41.7636E+04	50.7910E+04
4	23.5066E+04	34.3180E+04	39.7673E+04	19.6546E+04	26.7719E+04	29.6368E+04
6	19.0393E+04	23.4483E+04	27.8649E+04	14.9165E+04	18.4466E+04	19.4550E+04
8	15.6296E+04	18.5923E+04	20.5104E+04	11.5375E+04	13.3789E+04	13.7879E+04
10	12.9378E+04	15.3544E+04	15.8541E+04	90.2737E+03	99.8822E+03	10.0980E+04
12	10.8034E+04	12.9820E+04	12.5304E+04	71.1735E+03	76.1764E+03	76.5527E+03

RECTANGULAR SLAB SOURCE = 40 IN. X 60 IN.

AIR GAP = 1.0 IN.

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0339E-01	10.0570E-01	10.0602E-01	10.1025E-01	10.1555E-01	10.1374E-01
4	10.2042E-01	10.2704E-01	10.2486E-01	10.6152E-01	10.4951E-01	10.4368E-01
6	10.6853E-01	10.5908E-01	10.5334E-01	11.1834E-01	10.9547E-01	10.8582E-01
8	11.1043E-01	10.9938E-01	10.8981E-01	11.8516E-01	11.5190E-01	11.3914E-01
10	11.7585E-01	11.4670E-01	11.3332E-01	12.6108E-01	12.1840E-01	12.0324E-01
12	12.3982E-01	12.0042E-01	11.8335E-01	13.4605E-01	12.9495E-01	12.7808E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3323E-01	10.2622E-01	10.2262E-01	10.4939E-01	10.3836E-01	10.3316E-01
4	10.9779E-01	10.7706E-01	10.6837E-01	11.3950E-01	11.1105E-01	11.0007E-01
6	11.7890E-01	11.4508E-01	11.3277E-01	12.5285E-01	12.0955E-01	11.9598E-01
8	12.7411E-01	12.2970E-01	12.1538E-01	13.8886E-01	13.3561E-01	13.2101E-01
10	13.8405E-01	13.3134E-01	13.1629E-01	15.4955E-01	14.8567E-01	14.7594E-01
12	15.0966E-01	14.5076E-01	14.3592E-01	17.3777E-01	16.7427E-01	16.6221E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.6719E-01	10.5226E-01	10.4556E-01	11.0838E-01	10.8572E-01	10.7636E-01
4	11.8758E-01	11.5212E-01	11.3939E-01	13.0409E-01	12.5665E-01	12.4200E-01
6	13.5188E-01	12.9130E-01	12.7661E-01	15.6850E-01	15.0706E-01	14.9320E-01
8	15.3192E-01	14.7209E-01	14.5824E-01	19.1321E-01	18.4671E-01	18.3612E-01
10	17.6250E-01	16.9825E-01	16.8658E-01	23.5511E-01	22.8960E-01	22.8241E-01
12	20.3988E-01	19.7463E-01	19.6545E-01	29.1560E-01	28.5464E-01	28.5010E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ. CM.) FOR 2+6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	35.1769E+04	63.3406E+04	86.3843E+04	33.6009E+04	59.3565E+04	79.8369E+04
4	31.4046E+04	52.4042E+04	67.4078E+04	29.2402E+04	47.4591E+04	60.1257E+04
6	28.1637E+04	44.6113E+04	54.8127E+04	25.7555E+04	39.4459E+04	47.4566E+04
8	25.4062E+04	38.2856E+04	45.7970E+04	22.8902E+04	33.2878E+04	38.5935E+04
10	23.0437E+04	33.4450E+04	39.0305E+04	20.4804E+04	28.4911E+04	32.0808E+04
12	20.9596E+04	29.5182E+04	33.7763E+04	18.4189E+04	24.6569E+04	27.1263E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	32.0441E+04	55.2541E+04	72.8986E+04	30.5361E+04	51.3041E+04	66.2843E+04
4	27.0298E+04	42.5617E+04	52.2152E+04	24.9003E+04	37.7557E+04	44.9866E+04
6	23.2101E+04	34.0412E+04	39.5943E+04	20.7700E+04	29.0880E+04	32.7540E+04
8	20.1580E+04	27.8660E+04	31.1385E+04	17.5600E+04	23.0514E+04	24.9489E+04
10	17.6445E+04	23.1975E+04	25.1564E+04	14.9782E+04	18.6442E+04	19.6334E+04
12	15.5320E+04	19.9644E+04	20.7529E+04	12.8554E+04	15.3204E+04	15.8459E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	29.0932E+04	47.6247E+04	60.2528E+04	24.4277E+04	41.1614E+04	50.0814E+04
4	22.9083E+04	33.4562E+04	38.7003E+04	19.3958E+04	26.4277E+04	29.2549E+04
6	18.5315E+04	24.8250E+04	27.1843E+04	14.7337E+04	18.2649E+04	19.2124E+04
8	15.2229E+04	19.0557E+04	20.1207E+04	11.3999E+04	13.2159E+04	13.5355E+04
10	12.6281E+04	14.9874E+04	15.4731E+04	89.2002E+03	98.6244E+03	99.7177E+03
12	10.5460E+04	12.0077E+04	12.2307E+04	70.3183E+03	75.2381E+03	75.6140E+03

COBALT 60 SOURCE

AIR GAP = 2.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS TRAJECTORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	1 G/CC	2	4	6
2	10.1022E-01	10.0938E-01	10.0857E-01	10.0857E-01
4	10.7801E-01	10.7398E-01	10.7243E-01	10.7243E-01
6	10.7728E-01	10.6366E-01	10.5650E-01	10.5650E-01
8	11.2087E-01	11.4221E-01	11.9169E-01	11.9169E-01
10	11.7934E-01	11.4740E-01	11.3333E-01	11.3333E-01
12	12.4004E-01	11.9816E-01	11.0106E-01	11.0106E-01

TARGET THICKNESS INCHES	.5 G/CC	2	4	6
2	10.2858E-01	10.2288E-01	10.1919E-01	10.1919E-01
4	10.8591E-01	10.6868E-01	10.6133E-01	10.6133E-01
6	11.9466E-01	11.3115E-01	11.2055E-01	11.2055E-01
8	12.4776E-01	12.0972E-01	11.9723E-01	11.9723E-01
10	12.9874E-01	12.0474E-01	12.9147E-01	12.9147E-01
12	14.6835E-01	14.1690E-01	14.0370E-01	14.0370E-01

TARGET THICKNESS INCHES	.1 G/CC	2	4	6
2	10.5021E-01	10.4095E-01	10.3643E-01	10.3643E-01
4	11.5358E-01	11.2805E-01	11.1853E-01	11.1853E-01
6	12.5236E-01	12.5374E-01	12.4221E-01	12.4221E-01
8	14.6665E-01	14.1932E-01	14.0837E-01	14.0837E-01
10	16.8077E-01	16.2685E-01	16.1909E-01	16.1909E-01
12	19.3856E-01	19.6545E-01	19.7744E-01	19.7744E-01

TARGET THICKNESS INCHES	.3 G/CC	2	4	6
2	13.9124E+04	13.9124E+04	13.9124E+04	13.9124E+04
4	28.5200E+04	28.5200E+04	28.5200E+04	28.5200E+04
6	31.9177E+04	31.9177E+04	31.9177E+04	31.9177E+04
8	32.2913E+04	32.2913E+04	32.2913E+04	32.2913E+04
10	21.1675E+04	21.1675E+04	21.1675E+04	21.1675E+04
12	19.2542E+04	19.2542E+04	19.2542E+04	19.2542E+04

TARGET THICKNESS INCHES	.5 G/CC	2	4	6
2	29.7928E+04	29.7928E+04	29.7928E+04	29.7928E+04
4	25.3116E+04	25.3116E+04	25.3116E+04	25.3116E+04
6	21.6511E+04	21.6511E+04	21.6511E+04	21.6511E+04
8	19.0589E+04	19.0589E+04	19.0589E+04	19.0589E+04
10	16.7271E+04	16.7271E+04	16.7271E+04	16.7271E+04
12	14.7549E+04	14.7549E+04	14.7549E+04	14.7549E+04

TARGET THICKNESS INCHES	.9 G/CC	2	4	6
2	48.3450E+04	48.3450E+04	48.3450E+04	48.3450E+04
4	44.9579E+04	44.9579E+04	44.9579E+04	44.9579E+04
6	37.5215E+04	37.5215E+04	37.5215E+04	37.5215E+04
8	29.5794E+04	29.5794E+04	29.5794E+04	29.5794E+04
10	22.5059E+04	22.5059E+04	22.5059E+04	22.5059E+04
12	19.4302E+04	19.4302E+04	19.4302E+04	19.4302E+04

TARGET THICKNESS INCHES	1.3 G/CC	2	4	6
2	48.4833E+04	48.4833E+04	48.4833E+04	48.4833E+04
4	44.5071E+04	44.5071E+04	44.5071E+04	44.5071E+04
6	35.9411E+04	35.9411E+04	35.9411E+04	35.9411E+04
8	27.8424E+04	27.8424E+04	27.8424E+04	27.8424E+04
10	19.2772E+04	19.2772E+04	19.2772E+04	19.2772E+04
12	14.7498E+04	14.7498E+04	14.7498E+04	14.7498E+04

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM. 1 FOR 2.46 PASS INADAPTIONS IN TARGETS OF VARIOUS DENSITIES

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 40 IN. X 80 IN.

AIR GAP = 3.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1059E-01	10.0910E-01	10.0428E-01	10.1599E-01	10.1327E-01	10.1171E-01
4	10.3628E-01	10.3014E-01	10.2674E-01	10.5111E-01	10.4143E-01	10.3679E-01
6	10.7212E-01	10.4910E-01	10.5263E-01	10.9785E-01	10.5904E-01	10.7239E-01
8	11.1561E-01	10.9476E-01	10.8503E-01	11.5401E-01	11.2813E-01	11.1789E-01
10	11.6555E-01	11.3645E-01	11.2342E-01	12.1892E-01	11.8543E-01	11.7311E-01
12	12.2165E-01	11.8379E-01	11.6749E-01	12.9249E-01	12.5194E-01	12.1604E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2108E-01	10.1769E-01	10.1576E-01	10.2671E-01	10.2390E-01	10.2085E-01
4	10.6817E-01	10.5643E-01	10.5113E-01	10.8975E-01	10.7649E-01	10.7063E-01
6	11.3206E-01	11.1134E-01	11.0330E-01	11.7795E-01	11.5483E-01	11.4670E-01
8	12.1056E-01	11.8179E-01	11.7199E-01	12.8920E-01	12.5821E-01	12.4916E-01
10	13.0342E-01	12.6000E-01	12.5734E-01	14.2423E-01	13.8760E-01	13.7474E-01
12	14.1128E-01	13.7053E-01	13.5972E-01	15.8494E-01	15.4464E-01	15.1644E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3343E-01	10.2954E-01	10.2719E-01	10.3144E-01	10.4493E-01	10.4612E-01
4	11.1698E-01	11.0194E-01	10.9584E-01	11.9038E-01	11.7169E-01	11.6504E-01
6	12.3712E-01	12.1171E-01	12.0371E-01	13.9900E-01	13.6946E-01	13.6224E-01
8	13.9244E-01	13.5961E-01	13.5183E-01	16.8165E-01	16.4449E-01	16.4048E-01
10	15.8547E-01	15.4841E-01	15.4128E-01	20.5053E-01	20.1394E-01	20.0976E-01
12	18.2123E-01	17.6204E-01	17.6266E-01	25.2293E-01	24.6761E-01	24.6494E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	28.8950E+04	32.2989E+04	71.7832E+04	28.1637E+04	58.2644E+04	60.1823E+04
4	25.9195E+04	43.7922E+04	58.8194E+04	24.8313E+04	48.9621E+04	52.0511E+04
6	23.4439E+04	37.4989E+04	46.6808E+04	22.1889E+04	34.2391E+04	41.6544E+04
8	21.3235E+04	32.5993E+04	39.1164E+04	19.8045E+04	29.1993E+04	33.9329E+04
10	19.4843E+04	28.6734E+04	33.7203E+04	17.8177E+04	25.0950E+04	28.3483E+04
12	17.8726E+04	25.4611E+04	29.3504E+04	16.1398E+04	21.7854E+04	24.6867E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	27.4612E+04	47.8015E+04	63.6895E+04	26.5921E+04	45.3640E+04	59.0968E+04
4	23.5611E+04	37.5348E+04	46.3239E+04	22.2881E+04	34.0410E+04	40.7762E+04
6	20.6804E+04	30.3189E+04	35.4198E+04	18.7758E+04	26.4864E+04	33.0892E+04
8	17.9181E+04	24.9834E+04	28.8888E+04	16.0863E+04	21.1188E+04	22.8779E+04
10	15.7998E+04	20.8911E+04	22.7201E+04	13.7388E+04	17.1939E+04	18.8888E+04
12	13.9738E+04	17.6943E+04	18.8827E+04	11.8329E+04	14.1401E+04	16.1662E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	25.7995E+04	42.8457E+04	54.6461E+04	24.8848E+04	39.0528E+04	44.6172E+04
4	20.8309E+04	30.7295E+04	35.7321E+04	18.1877E+04	24.9947E+04	27.6893E+04
6	17.8982E+04	23.8237E+04	25.2564E+04	13.9873E+04	17.4188E+04	18.1389E+04
8	14.1534E+04	17.7751E+04	18.7034E+04	10.9888E+04	12.8878E+04	12.9561E+04
10	11.8884E+04	14.8888E+04	14.4944E+04	8.5657E+03	9.5888E+03	9.5888E+03
12	9.8843E+03	11.3738E+04	11.4844E+04	6.7697E+03	7.2488E+03	7.2488E+03



COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 40 IN. X 60 IN.

AIR GAP = 4.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0939E-01	10.0822E-01	10.0743E-01	10.1255E-01	10.1076E-01	10.0966E-01
4	10.3233E-01	10.2707E-01	10.2413E-01	10.4194E-01	10.3497E-01	10.3146E-01
6	10.6451E-01	10.5395E-01	10.4768E-01	10.8260E-01	10.6912E-01	10.6307E-01
8	11.0399E-01	10.8390E-01	10.7727E-01	11.3259E-01	11.1234E-01	11.0399E-01
10	11.4967E-01	11.2414E-01	11.1243E-01	11.9123E-01	11.6438E-01	11.5406E-01
12	12.0185E-01	11.6770E-01	11.5293E-01	12.5634E-01	12.2516E-01	12.1335E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1907E-01	10.1301E-01	10.1232E-01	10.1779E-01	10.1672E-01	10.1577E-01
4	10.5361E-01	10.4589E-01	10.4231E-01	10.6780E-01	10.6091E-01	10.5747E-01
6	11.0768E-01	10.9376E-01	10.8799E-01	11.4308E-01	11.2904E-01	11.2345E-01
8	11.7701E-01	11.5898E-01	11.4923E-01	12.4139E-01	12.2098E-01	12.1466E-01
10	12.6090E-01	12.3445E-01	12.2619E-01	13.6295E-01	13.3762E-01	13.3117E-01
12	13.5875E-01	13.2783E-01	13.1926E-01	15.0924E-01	14.8044E-01	14.7402E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2124E-01	10.2097E-01	10.2021E-01	10.3172E-01	10.3302E-01	10.3251E-01
4	10.8795E-01	10.8008E-01	10.7745E-01	11.4397E-01	11.3673E-01	11.3343E-01
6	11.9049E-01	11.7612E-01	11.7109E-01	13.2523E-01	13.0936E-01	13.0507E-01
8	13.2821E-01	13.0782E-01	13.0221E-01	15.7790E-01	15.5624E-01	15.5245E-01
10	15.3243E-01	14.7771E-01	14.7274E-01	19.1086E-01	18.8732E-01	18.8451E-01
12	17.1689E-01	16.8990E-01	16.8575E-01	23.4051E-01	23.1691E-01	23.1322E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2-6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	26.1469E+04	47.6133E+04	65.5883E+04	25.6717E+04	46.1080E+04	62.3384E+04
4	23.6204E+04	40.1581E+04	52.3266E+04	22.8215E+04	37.9076E+04	48.3645E+04
6	21.4664E+04	34.7589E+04	43.2113E+04	20.4363E+04	31.8628E+04	38.7193E+04
8	19.6938E+04	30.1684E+04	36.5373E+04	18.3970E+04	27.1944E+04	31.6012E+04
10	17.9750E+04	26.6274E+04	31.4428E+04	16.6304E+04	23.4829E+04	26.6366E+04
12	16.5379E+04	23.7117E+04	27.4330E+04	15.0641E+04	20.4703E+04	22.4643E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	25.1753E+04	44.2515E+04	59.1391E+04	24.5262E+04	42.2223E+04	55.2806E+04
4	21.8436E+04	35.0507E+04	43.4205E+04	20.7684E+04	32.0526E+04	38.5037E+04
6	19.1262E+04	28.4827E+04	33.3648E+04	17.6963E+04	25.0966E+04	28.3964E+04
8	16.8186E+04	23.9444E+04	26.4721E+04	15.1713E+04	20.0922E+04	21.8125E+04
10	14.8876E+04	19.7707E+04	21.5263E+04	13.0456E+04	16.7674E+04	17.2737E+04
12	13.2071E+04	16.7779E+04	17.6493E+04	11.2922E+04	13.5216E+04	14.5011E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	23.8896E+04	40.1351E+04	51.4598E+04	22.5501E+04	36.0420E+04	44.3732E+04
4	19.6298E+04	29.1455E+04	36.0132E+04	17.3662E+04	23.9631E+04	26.6334E+04
6	16.2435E+04	21.9826E+04	24.1904E+04	13.4927E+04	16.8314E+04	17.7233E+04
8	13.9299E+04	17.8413E+04	18.6231E+04	10.5484E+04	12.2817E+04	12.5890E+04
10	11.8247E+04	13.4925E+04	13.9417E+04	87.3036E+03	92.227E+03	93.2966E+03
12	95.1991E+03	10.6421E+04	11.6689E+04	65.9734E+03	70.421E+03	70.9849E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 40 IN. X 60 IN.

AIR GAP = 5.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0817E-01	10.0722E-01	10.0457E-01	10.0987E-01	10.0875E-01	10.0802E-01
4	10.2866E-01	10.2614E-01	10.2166E-01	10.3447E-01	10.2966E-01	10.2704E-01
6	10.5737E-01	10.4801E-01	10.4311E-01	10.6987E-01	10.5994E-01	10.5523E-01
8	10.9321E-01	10.7780E-01	10.7019E-01	11.1445E-01	10.9691E-01	10.9216E-01
10	11.3511E-01	11.1297E-01	11.0250E-01	11.6751E-01	11.4626E-01	11.3774E-01
12	11.8256E-01	11.5317E-01	11.3981E-01	12.2684E-01	12.0198E-01	11.9200E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1076E-01	10.1023E-01	10.0973E-01	10.1152E-01	10.1216E-01	10.1205E-01
4	10.4129E-01	10.3753E-01	10.3535E-01	10.5110E-01	10.4894E-01	10.4729E-01
6	10.8806E-01	10.7950E-01	10.7557E-01	11.1534E-01	11.0837E-01	11.0520E-01
8	11.4938E-01	11.3571E-01	11.3039E-01	12.0232E-01	11.9045E-01	11.8634E-01
10	12.2473E-01	12.0626E-01	12.0004E-01	13.1201E-01	12.9599E-01	12.9155E-01
12	13.1422E-01	12.9198E-01	12.8493E-01	14.4593E-01	14.2632E-01	14.2201E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1285E-01	10.1484E-01	10.1517E-01	10.1811E-01	10.2310E-01	10.2621E-01
4	10.6513E-01	10.6453E-01	10.6332E-01	11.0842E-01	11.0982E-01	11.0907E-01
6	11.5343E-01	11.4766E-01	11.4504E-01	12.4610E-01	12.6111E-01	12.5918E-01
8	12.7577E-01	12.6599E-01	12.6188E-01	14.9204E-01	14.8212E-01	14.8004E-01
10	14.3335E-01	14.1896E-01	14.1579E-01	17.9439E-01	17.8167E-01	17.8020E-01
12	16.2930E-01	16.1250E-01	16.0971E-01	21.0722E-01	21.7342E-01	21.7223E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	23.7786E+04	43.4901E+04	60.1097E+04	23.4439E+04	42.3524E+04	57.8614E+04
4	21.5947E+04	36.9284E+04	48.3075E+04	20.9996E+04	35.1081E+04	44.9713E+04
6	19.7115E+04	31.9336E+04	40.0902E+04	18.9085E+04	29.6673E+04	36.1756E+04
8	18.0647E+04	27.9829E+04	34.0240E+04	17.0960E+04	25.4194E+04	29.9175E+04
10	16.6195E+04	24.7762E+04	29.3670E+04	15.5091E+04	22.0173E+04	25.0426E+04
12	15.3337E+04	22.1225E+04	25.6855E+04	14.1085E+04	19.2407E+04	21.3515E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	23.0437E+04	40.8814E+04	54.8910E+04	22.5921E+04	39.2246E+04	51.6250E+04
4	20.2321E+04	32.6988E+04	40.6630E+04	19.3563E+04	30.1072E+04	36.2950E+04
6	17.8377E+04	26.7258E+04	31.3994E+04	16.6325E+04	23.7210E+04	26.9032E+04
8	15.7840E+04	22.2010E+04	24.9952E+04	14.3397E+04	19.0703E+04	20.7334E+04
10	14.0096E+04	18.6832E+04	20.3758E+04	12.4004E+04	15.9826E+04	16.4609E+04
12	12.4667E+04	15.8930E+04	16.9288E+04	10.7509E+04	12.9037E+04	13.3712E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	22.1009E+04	37.4812E+04	48.3124E+04	21.0375E+04	33.9743E+04	42.0430E+04
4	18.4189E+04	27.3481E+04	32.2469E+04	16.4859E+04	22.8936E+04	25.5029E+04
6	15.3803E+04	20.9151E+04	23.0170E+04	12.9369E+04	16.1943E+04	17.0672E+04
8	12.8861E+04	16.2837E+04	17.2380E+04	10.1954E+04	11.8750E+04	12.1713E+04
10	10.8312E+04	12.9330E+04	13.3703E+04	80.6865E+03	89.8148E+03	90.4290E+03
12	91.2924E+03	10.4363E+04	10.6379E+04	64.0774E+03	68.6369E+03	68.9859E+03

RECTANGULAR SLAB SOURCE = 40 IN. X 60 IN.

AIR GAP = 6.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATIONS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0711E-01	10.0636E-01	10.0584E-01	10.0787E-01	10.0721E-01	10.0674E-01
4	10.2519E-01	10.2162E-01	10.1954E-01	10.2864E-01	10.2539E-01	10.2351E-01
6	10.5126E-01	10.4343E-01	10.3919E-01	10.5964E-01	10.5248E-01	10.4884E-01
8	10.8401E-01	10.7084E-01	10.6411E-01	10.9957E-01	10.8780E-01	10.8230E-01
10	11.2259E-01	11.0333E-01	10.9394E-01	11.4779E-01	11.3113E-01	11.2408E-01
12	11.6653E-01	11.4061E-01	11.2847E-01	12.0405E-01	11.8244E-01	11.7400E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0770E-01	10.0788E-01	10.0778E-01	10.0727E-01	10.0886E-01	10.0931E-01
4	10.3239E-01	10.3107E-01	10.2994E-01	10.3853E-01	10.3977E-01	10.3947E-01
6	10.7261E-01	10.6813E-01	10.6565E-01	10.9353E-01	10.9200E-01	10.9058E-01
8	11.2703E-01	11.1872E-01	11.1505E-01	11.7079E-01	11.6573E-01	11.6344E-01
10	11.9517E-01	11.8298E-01	11.7845E-01	12.7014E-01	12.6173E-01	12.5898E-01
12	12.7712E-01	12.6131E-01	12.5627E-01	13.9258E-01	13.8128E-01	13.7842E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0708E-01	10.1043E-01	10.1150E-01	10.0870E-01	10.1599E-01	10.1822E-01
4	10.4828E-01	10.5209E-01	10.5251E-01	10.8133E-01	10.8974E-01	10.9040E-01
6	11.2426E-01	11.2515E-01	11.2447E-01	12.1907E-01	12.2269E-01	12.2265E-01
8	12.3338E-01	12.3045E-01	12.2924E-01	14.2247E-01	14.2177E-01	14.2114E-01
10	13.7658E-01	13.7044E-01	13.6897E-01	16.9860E-01	16.9480E-01	16.9408E-01
12	15.5650E-01	15.4814E-01	15.4650E-01	20.5948E-01	20.5382E-01	20.5323E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	21.7071E+04	39.8573E+04	55.2567E+04	21.4664E+04	38.9815E+04	53.4543E+04
4	19.8064E+04	34.0512E+04	44.7095E+04	19.3542E+04	32.5573E+04	41.8643E+04
6	18.1502E+04	29.5774E+04	37.2755E+04	17.5151E+04	27.6495E+04	33.8334E+04
8	16.6926E+04	26.0132E+04	31.7459E+04	15.9005E+04	23.7786E+04	27.9791E+04
10	15.3995E+04	23.0976E+04	27.4780E+04	14.4728E+04	20.6567E+04	23.5583E+04
12	14.2448E+04	20.8765E+04	24.0900E+04	13.2032E+04	18.0955E+04	20.1271E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	21.1675E+04	37.7979E+04	50.9721E+04	20.8210E+04	36.4286E+04	48.1768E+04
4	18.7443E+04	30.9037E+04	38.0782E+04	18.0284E+04	28.2488E+04	34.1750E+04
6	16.6304E+04	25.0697E+04	29.5418E+04	15.6075E+04	22.3885E+04	25.4532E+04
8	14.7867E+04	20.9066E+04	23.5917E+04	13.5297E+04	18.0730E+04	19.6801E+04
10	13.1743E+04	17.4444E+04	19.2784E+04	11.7482E+04	14.8130E+04	15.6639E+04
12	11.7594E+04	15.0469E+04	16.0484E+04	10.2183E+04	12.2961E+04	12.7500E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	20.4363E+04	34.9590E+04	45.2917E+04	19.5824E+04	31.9364E+04	39.7249E+04
4	17.2456E+04	25.9830E+04	30.5141E+04	15.5096E+04	21.7939E+04	24.3362E+04
6	14.5227E+04	19.8527E+04	21.8883E+04	12.3540E+04	15.5248E+04	18.3779E+04
8	12.2399E+04	15.5232E+04	16.4500E+04	97.9856E+03	11.4375E+04	11.3778E+04
10	10.3326E+04	12.3684E+04	12.7938E+04	77.8835E+03	84.6141E+03	87.4877E+03
12	87.3745E+03	10.8895E+04	18.2028E+04	62.0433E+03	66.5837E+03	68.8459E+03

RECTANGULAR SLAM SOURCE = 40 IN. X 60 IN.

AIR GAP = 2.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3625E-01	10.0564E-01	10.0524E-01	10.0638E-01	10.0403E-01	10.0574E-01
4	10.2241E-01	10.1952E-01	10.1774E-01	10.2409E-01	10.2201E-01	10.2048E-01
6	10.4617E-01	10.3957E-01	10.3587E-01	10.5144E-01	10.4640E-01	10.4362E-01
8	10.7626E-01	10.6472E-01	10.5893E-01	10.8740E-01	10.7863E-01	10.7429E-01
10	11.1198E-01	10.9511E-01	10.8662E-01	11.3142E-01	11.1849E-01	11.1267E-01
12	11.5284E-01	11.2983E-01	11.1874E-01	11.8325E-01	11.6594E-01	11.5683E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0351E-01	10.0614E-01	10.0631E-01	10.0425E-01	10.0644E-01	10.0727E-01
4	10.2361E-01	10.2604E-01	10.2569E-01	10.2902E-01	10.3264E-01	10.3340E-01
6	10.6097E-01	10.5900E-01	10.5769E-01	10.7631E-01	10.7894E-01	10.7892E-01
8	11.0891E-01	11.0484E-01	11.0253E-01	11.4525E-01	11.4560E-01	11.4681E-01
10	11.7882E-01	11.6370E-01	11.6058E-01	12.3571E-01	12.3365E-01	12.3210E-01
12	12.4616E-01	12.3998E-01	12.3231E-01	13.4843E-01	13.4364E-01	13.4205E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0305E-01	10.0721E-01	10.0678E-01	10.0211E-01	10.1079E-01	10.1307E-01
4	10.3948E-01	10.4248E-01	10.4415E-01	10.6552E-01	10.7312E-01	10.7599E-01
6	11.0111E-01	11.0721E-01	11.0808E-01	11.8145E-01	11.9190E-01	11.9342E-01
8	11.9895E-01	12.0262E-01	12.0270E-01	13.0556E-01	13.1724E-01	13.1729E-01
10	13.2973E-01	13.3073E-01	13.3031E-01	16.1931E-01	16.2261E-01	16.2269E-01
12	14.9575E-01	14.9441E-01	14.9374E-01	19.3298E-01	19.3375E-01	19.3364E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HM. PER CURIE/50 CM.) FOR 2.466 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	19.8873E+04	34.6437E+04	50.9621E+04	19.7115E+04	35.9591E+04	49.6768E+04
4	18.2217E+04	31.4795E+04	41.4767E+04	17.8726E+04	30.2370E+04	39.0245E+04
6	16.7564E+04	27.4563E+04	34.7299E+04	16.2476E+04	25.7992E+04	31.6777E+04
8	15.4578E+04	24.2249E+04	29.6758E+04	14.8047E+04	22.2652E+04	26.2790E+04
10	14.2984E+04	21.9720E+04	25.7550E+04	13.5177E+04	19.3963E+04	22.1885E+04
12	13.2581E+04	19.3967E+04	22.6301E+04	12.3452E+04	17.0310E+04	18.9872E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	19.4843E+04	34.9934E+04	47.3794E+04	19.2142E+04	33.8488E+04	44.9664E+04
4	17.3815E+04	28.4705E+04	35.6724E+04	16.7906E+04	28.4997E+04	32.1834E+04
6	15.9091E+04	23.3198E+04	27.7987E+04	14.6346E+04	21.1150E+04	24.0651E+04
8	13.8516E+04	19.6871E+04	22.2676E+04	12.7520E+04	17.1122E+04	18.6648E+04
10	12.3860E+04	16.6449E+04	18.2384E+04	11.1174E+04	14.9676E+04	14.8919E+04
12	11.0890E+04	14.2632E+04	15.2117E+04	97.0391E+03	11.7094E+04	12.1442E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	18.9085E+04	32.5989E+04	42.4374E+04	18.2150E+04	29.8775E+04	37.4742E+04
4	16.1308E+04	24.6781E+04	28.8616E+04	14.7894E+04	20.4972E+04	23.1699E+04
6	13.6903E+04	18.0157E+04	20.7857E+04	11.7624E+04	14.8429E+04	15.6736E+04
8	11.6044E+04	14.7738E+04	15.6733E+04	93.8910E+03	10.9861E+04	11.2698E+04
10	98.3832E+03	11.8886E+04	12.2729E+04	74.9669E+03	83.2944E+03	84.2672E+03
12	83.4732E+03	95.7679E+03	97.6424E+03	59.9177E+03	64.2772E+03	64.6125E+03

RECTANGULAR SLAB SOURCE = 40 IN. X 90 IN. AIR CD = 0.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	99.0390E-02	99.3027E-02	99.6018E-02	10.0704E-01	10.0732E-01	10.0749E-01
4	99.0856E-02	10.0242E-01	10.0634E-01	10.3511E-01	10.3257E-01	10.2998E-01
6	10.1643E-01	10.2403E-01	10.2493E-01	10.6250E-01	10.7000E-01	10.6455E-01
8	10.5449E-01	10.5471E-01	10.5124E-01	11.4095E-01	11.1921E-01	11.0940E-01
10	11.0010E-01	10.9113E-01	10.8407E-01	12.0003E-01	11.7679E-01	11.6452E-01
12	11.5105E-01	11.3302E-01	11.2232E-01	12.0320E-01	12.4310E-01	12.2080E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2422E-01	10.2062E-01	10.1030E-01	10.4470E-01	10.3547E-01	10.3008E-01
4	10.0116E-01	10.6402E-01	10.9907E-01	11.3140E-01	11.0542E-01	11.0229E-01
6	11.5667E-01	11.2094E-01	11.1823E-01	12.4270E-01	12.0190E-01	11.8033E-01
8	12.4493E-01	12.0702E-01	11.9471E-01	13.7600E-01	13.2429E-01	13.0973E-01
10	13.5027E-01	13.0261E-01	12.8834E-01	15.3311E-01	14.7407E-01	14.6009E-01
12	14.6891E-01	14.1304E-01	13.9942E-01	17.1642E-01	16.5320E-01	16.4041E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.6672E-01	10.5205E-01	10.4530E-01	11.1545E-01	10.9047E-01	10.8029E-01
4	11.0750E-01	11.5199E-01	11.3912E-01	13.1704E-01	12.6612E-01	12.5020E-01
6	13.4234E-01	12.9104E-01	12.7601E-01	15.0704E-01	15.2160E-01	15.0920E-01
8	15.3235E-01	14.7127E-01	14.5409E-01	17.3764E-01	16.6710E-01	16.5570E-01
10	17.6221E-01	16.7420E-01	16.6392E-01	21.0500E-01	20.1654E-01	20.0002E-01
12	20.3762E-01	19.7034E-01	19.6074E-01	25.3347E-01	24.0997E-01	24.0407E-01

MINIMUM SPECIFIC NOTE RATE (RAD./HR. PER CURIE/50-CN. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	30.0492E+04	49.6500E+04	55.9074E+04	25.4820E+04	43.6167E+04	56.0951E+04
4	30.6320E+04	50.9370E+04	70.5230E+04	11.4004E+04	21.7710E+04	40.6277E+04
6	31.6454E+04	50.6147E+04	63.1470E+04	27.9390E+04	43.1632E+04	52.2068E+04
8	29.7917E+04	44.0864E+04	53.2090E+04	24.9490E+04	36.4635E+04	42.6053E+04
10	26.2923E+04	38.0457E+04	45.9305E+04	22.4164E+04	31.2619E+04	35.0470E+04
12	24.1057E+04	34.5370E+04	40.6790E+04	20.2452E+04	27.4901E+04	30.4409E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	33.9532E+04	50.0972E+04	76.0432E+04	31.6294E+04	53.2137E+04	68.0133E+04
4	33.4914E+04	47.0732E+04	55.4254E+04	23.0400E+04	39.2300E+04	46.0477E+04
6	34.5443E+04	50.1713E+04	42.2423E+04	21.3043E+04	30.3200E+04	34.1900E+04
8	21.3495E+04	29.7170E+04	33.2972E+04	18.2670E+04	24.0050E+04	28.0997E+04
10	18.7401E+04	24.6301E+04	27.8201E+04	15.9964E+04	19.4292E+04	20.5770E+04
12	16.5420E+04	20.9920E+04	22.3664E+04	13.4070E+04	16.0440E+04	16.6200E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	29.0071E+04	40.9250E+04	61.0905E+04	26.0404E+04	41.7090E+04	50.0030E+04
4	23.3740E+04	34.3710E+04	39.0764E+04	19.4000E+04	26.7020E+04	29.6120E+04
6	19.8207E+04	25.3200E+04	27.9010E+04	14.0214E+04	18.3040E+04	19.0710E+04
8	15.4342E+04	19.4000E+04	20.2700E+04	11.5434E+04	13.3900E+04	13.7180E+04
10	12.9707E+04	15.4344E+04	15.9551E+04	08.2306E+03	09.9034E+03	10.1022E+04
12	10.0474E+04	12.3700E+04	12.6100E+04	07.2420E+03	06.2770E+03	06.6600E+03

RECTANGULAR SLAB SOURCE = 40 IN. X 90 IN. AIR GAP = 1.0 IN. X = 0.00 Y = 0

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0245E-01	10.0450E-01	10.0484E-01	10.1704E-01	10.1443E-01	10.1271E-01
4	10.2230E-01	10.2190E-01	10.2023E-01	10.5487E-01	10.4554E-01	10.3997E-01
6	10.5330E-01	10.4020E-01	10.4335E-01	11.0899E-01	10.8720E-01	10.7792E-01
8	10.9493E-01	10.8124E-01	10.7204E-01	11.7003E-01	11.3014E-01	11.2539E-01
10	11.4486E-01	11.1975E-01	11.0792E-01	12.3904E-01	11.9774E-01	11.8243E-01
12	11.9814E-01	11.6344E-01	11.4915E-01	13.1595E-01	12.6592E-01	12.4897E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3221E-01	10.2372E-01	10.2105E-01	10.4684E-01	10.3790E-01	10.3272E-01
4	10.9439E-01	10.7429E-01	10.6569E-01	11.3783E-01	11.0949E-01	10.9848E-01
6	11.7263E-01	11.3937E-01	11.2700E-01	12.6952E-01	12.0454E-01	11.9237E-01
8	12.6411E-01	12.1992E-01	12.0590E-01	13.8319E-01	13.2950E-01	13.1444E-01
10	13.6918E-01	13.1624E-01	13.0044E-01	15.4049E-01	14.7932E-01	14.6344E-01
12	14.8871E-01	14.2900E-01	14.1340E-01	17.2444E-01	16.5934E-01	16.4670E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.6723E-01	10.5223E-01	10.4550E-01	11.8954E-01	10.8649E-01	10.7698E-01
4	11.8733E-01	11.5148E-01	11.3884E-01	13.0607E-01	12.4802E-01	12.4318E-01
6	13.4095E-01	12.8996E-01	12.7499E-01	15.7112E-01	15.0694E-01	14.9485E-01
8	15.2922E-01	14.9232E-01	14.5494E-01	19.1634E-01	18.4877E-01	18.3813E-01
10	17.5358E-01	16.9312E-01	16.8091E-01	23.5863E-01	22.9207E-01	22.8466E-01
12	20.3310E-01	19.3434E-01	19.5661E-01	29.1924E-01	28.5707E-01	28.5234E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2, 4, 6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	39.7116E+04	44.5678E+04	49.3641E+04	39.8692E+04	40.3572E+04	41.5032E+04
4	32.2409E+04	34.4820E+04	37.2249E+04	29.7870E+04	28.9434E+04	28.2187E+04
6	29.2342E+04	27.8245E+04	26.9810E+04	24.3862E+04	23.8874E+04	23.4672E+04
8	26.6512E+04	24.6568E+04	23.9132E+04	23.9909E+04	24.7813E+04	24.7354E+04
10	24.3043E+04	22.2716E+04	21.6574E+04	21.2272E+04	20.9072E+04	20.8152E+04
12	22.4239E+04	20.3470E+04	19.6524E+04	19.1962E+04	18.1255E+04	18.0307E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	32.2945E+04	37.8510E+04	43.8781E+04	38.7851E+04	31.6597E+04	28.8226E+04
4	25.3408E+04	23.2504E+04	21.2053E+04	25.8804E+04	20.1179E+04	18.5114E+04
6	23.9428E+04	20.7632E+04	18.6612E+04	20.2240E+04	17.4413E+04	15.2348E+04
8	22.6512E+04	18.8993E+04	17.1382E+04	17.7457E+04	15.2640E+04	13.5791E+04
10	20.8240E+04	16.8993E+04	15.6540E+04	15.1629E+04	13.9798E+04	12.8179E+04
12	19.0175E+04	14.2359E+04	13.5671E+04	13.0375E+04	12.6164E+04	11.1799E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	29.2045E+04	47.8344E+04	60.9583E+04	26.4779E+04	41.2372E+04	50.1763E+04
4	25.8111E+04	39.6408E+04	39.8352E+04	19.4284E+04	26.4774E+04	29.2162E+04
6	18.6208E+04	24.9930E+04	27.4028E+04	16.7994E+04	18.3008E+04	19.2577E+04
8	15.3147E+04	19.2803E+04	20.2067E+04	11.4215E+04	13.2471E+04	13.5706E+04
10	12.7179E+04	15.1247E+04	15.4215E+04	9.5981E+03	9.8842E+03	9.9079E+03
12	10.6270E+04	12.1309E+04	12.3645E+04	70.4801E+03	72.4570E+03	72.8436E+03

RECTANGULAR SLAB SOURCE = 40 IN. X 90 IN. AIR GAP = 2.0 IN. X = 0.00 Y = 0

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES.

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0819E-01	10.0767E-01	10.0707E-01	10.1810E-01	10.1472E-01	10.1280E-01
4	10.3126E-01	10.2654E-01	10.2356E-01	10.5630E-01	10.4453E-01	10.3896E-01
6	10.6436E-01	10.3283E-01	10.4673E-01	11.0549E-01	10.6415E-01	10.7506E-01
8	11.0461E-01	10.8503E-01	10.7556E-01	11.6315E-01	11.3244E-01	11.2036E-01
10	11.5059E-01	11.2235E-01	11.0949E-01	12.2852E-01	11.8907E-01	11.7462E-01
12	12.0156E-01	11.6436E-01	11.4818E-01	13.0149E-01	12.5401E-01	12.3781E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2830E-01	10.2256E-01	10.1957E-01	10.3974E-01	10.3179E-01	10.2784E-01
4	10.8462E-01	10.6777E-01	10.5980E-01	11.1869E-01	10.9605E-01	10.8706E-01
6	11.5659E-01	11.2771E-01	11.1681E-01	12.2079E-01	11.8544E-01	11.7350E-01
8	12.4203E-01	12.0322E-01	11.9018E-01	13.4522E-01	13.0006E-01	12.8714E-01
10	13.4097E-01	12.9404E-01	12.8001E-01	14.9314E-01	14.4116E-01	14.2067E-01
12	14.5411E-01	14.0078E-01	13.8665E-01	16.6683E-01	16.1061E-01	15.9935E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.5284E-01	10.4266E-01	10.3777E-01	10.8465E-01	10.6967E-01	10.6301E-01
4	11.5869E-01	11.3142E-01	11.2124E-01	12.5905E-01	12.2297E-01	12.1144E-01
6	12.9931E-01	12.5839E-01	12.4609E-01	15.0247E-01	14.5328E-01	14.4190E-01
8	14.7498E-01	14.2507E-01	14.1308E-01	18.2535E-01	17.6879E-01	17.5986E-01
10	16.8950E-01	16.3467E-01	16.2427E-01	22.3728E-01	21.8234E-01	21.7614E-01
12	19.4815E-01	18.9155E-01	18.8318E-01	27.6346E-01	27.1156E-01	27.0756E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES.

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	32.8837E+04	59.8856E+04	82.5401E+04	31.6496E+04	56.4142E+04	76.4359E+04
4	29.7081E+04	50.5896E+04	66.1236E+04	27.8386E+04	46.0038E+04	58.6491E+04
6	27.0020E+04	43.6650E+04	54.9136E+04	24.7686E+04	38.5621E+04	46.9525E+04
8	24.6755E+04	38.2584E+04	46.6953E+04	22.2141E+04	32.8997E+04	38.6265E+04
10	22.6544E+04	33.9030E+04	40.3955E+04	20.0417E+04	28.4321E+04	32.4163E+04
12	20.8815E+04	30.3141E+04	35.4110E+04	18.1652E+04	24.8194E+04	27.6307E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	30.3912E+04	52.8095E+04	70.0571E+04	29.1482E+04	49.3080E+04	63.9685E+04
4	25.9044E+04	41.1641E+04	50.6232E+04	24.0150E+04	36.6388E+04	43.8213E+04
6	22.4184E+04	33.2079E+04	38.8881E+04	20.1598E+04	28.3991E+04	32.0939E+04
8	19.3952E+04	27.3759E+04	30.7987E+04	17.1233E+04	22.6089E+04	24.5520E+04
10	17.2476E+04	22.9277E+04	25.0222E+04	14.6605E+04	18.3553E+04	19.3907E+04
12	15.2597E+04	19.4420E+04	20.7378E+04	12.6238E+04	15.1317E+04	15.6885E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	27.9339E+04	46.0082E+04	58.4001E+04	25.6279E+04	40.1192E+04	48.9240E+04
4	22.2222E+04	32.5928E+04	37.8670E+04	18.9965E+04	25.9441E+04	28.7441E+04
6	18.0744E+04	24.2981E+04	26.6542E+04	14.4912E+04	17.9915E+04	18.9278E+04
8	14.8495E+04	18.7084E+04	19.7846E+04	11.2373E+04	13.0378E+04	13.3569E+04
10	12.3918E+04	14.7499E+04	15.2468E+04	88.0483E+03	97.4111E+03	98.5093E+03
12	10.3704E+04	11.8409E+04	12.0721E+04	69.4753E+03	74.3757E+03	74.7542E+03

COSMET 60 SOURCE

RECTANGULAR 3148 SOURCE = 10 IN. X 10 IN. AIR GAP = 3.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0807E-01	10.0779E-01	10.0763E-01	10.1525E-01	10.1261E-01	10.1108E-01
4	10.2604E-01	10.2568E-01	10.2544E-01	10.4094E-01	10.3983E-01	10.3942E-01
6	10.6147E-01	10.5982E-01	10.5898E-01	10.9247E-01	10.9081E-01	10.8911E-01
8	10.9091E-01	10.8823E-01	10.8718E-01	11.4479E-01	11.4198E-01	11.3951E-01
10	11.4184E-01	11.3895E-01	11.3780E-01	12.0475E-01	11.9988E-01	11.9544E-01
12	11.6897E-01	11.6412E-01	11.6306E-01	12.7217E-01	12.6313E-01	12.6099E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2162E-01	10.1796E-01	10.1591E-01	10.2089E-01	10.2444E-01	10.2195E-01
4	10.6090E-01	10.5650E-01	10.5388E-01	10.9451E-01	10.7937E-01	10.7292E-01
6	11.3237E-01	11.1849E-01	11.0178E-01	11.6448E-01	11.5887E-01	11.4979E-01
8	12.0940E-01	11.7982E-01	11.6311E-01	12.9795E-01	12.6373E-01	12.5238E-01
10	13.0012E-01	12.6218E-01	12.5954E-01	14.3254E-01	13.9197E-01	13.8190E-01
12	14.0445E-01	13.4848E-01	13.4800E-01	15.6291E-01	15.4014E-01	15.2894E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3754E-01	10.3231E-01	10.2940E-01	10.2991E-01	10.5272E-01	10.4891E-01
4	11.2402E-01	11.0079E-01	11.0100E-01	11.0022E-01	11.0492E-01	11.7697E-01
6	12.5044E-01	12.2125E-01	12.1899E-01	14.2353E-01	13.9798E-01	13.8211E-01
8	14.0940E-01	13.7235E-01	13.6311E-01	17.1914E-01	16.7605E-01	16.7600E-01
10	16.0441E-01	15.4427E-01	15.5407E-01	20.9411E-01	20.5630E-01	20.5108E-01
12	18.4526E-01	18.0390E-01	17.9410E-01	25.0348E-01	25.4327E-01	25.4011E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	30.1432E+04	35.0044E+04	37.1510E+04	29.2562E+04	32.4392E+04	31.3320E+04
4	27.3379E+04	40.8079E+04	61.4217E+04	25.9212E+04	43.0987E+04	55.1311E+04
6	24.9712E+04	40.3074E+04	51.2509E+04	23.1039E+04	36.2957E+04	44.3390E+04
8	22.8734E+04	35.8949E+04	43.7384E+04	20.0790E+04	31.0744E+04	36.5698E+04
10	21.0644E+04	31.7301E+04	37.9478E+04	18.0936E+04	26.4299E+04	30.7732E+04
12	19.5729E+04	26.4470E+04	33.3462E+04	17.1695E+04	23.5602E+04	26.2810E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	20.3102E+04	49.9457E+04	65.9977E+04	27.3955E+04	46.4304E+04	60.7462E+04
4	24.3771E+04	38.9679E+04	48.2396E+04	22.0072E+04	34.9898E+04	41.9345E+04
6	21.2275E+04	31.5945E+04	37.0823E+04	19.2749E+04	27.2574E+04	30.8513E+04
8	18.6333E+04	26.1329E+04	29.4301E+04	16.4415E+04	21.7684E+04	23.6625E+04
10	16.4520E+04	21.9400E+04	23.9740E+04	14.1178E+04	17.7110E+04	18.7227E+04
12	14.5908E+04	18.6395E+04	19.9009E+04	12.1024E+04	14.6230E+04	15.1694E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	24.3868E+04	43.0045E+04	55.0302E+04	24.4796E+04	38.6143E+04	47.2205E+04
4	21.2706E+04	31.3516E+04	36.4978E+04	18.4085E+04	25.2320E+04	27.9079E+04
6	17.4197E+04	23.4866E+04	25.7922E+04	14.1346E+04	17.5788E+04	18.5010E+04
8	14.4187E+04	18.1388E+04	19.1924E+04	10.9993E+04	12.7721E+04	13.0885E+04
10	12.0737E+04	14.3279E+04	14.0164E+04	86.3627E+03	95.5803E+03	96.6667E+03
12	10.0610E+04	11.5198E+04	11.7466E+04	68.2349E+03	73.0624E+03	73.4375E+03



COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 40 IN. X 90 IN. AIR GAP = 4.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0013E-01	10.0713E-01	10.0643E-01	10.1219E-01	10.1037E-01	10.0926E-01
4	10.2809E-01	10.2342E-01	10.2074E-01	10.4039E-01	10.3330E-01	10.2972E-01
6	10.5804E-01	10.4591E-01	10.4064E-01	10.7892E-01	10.6518E-01	10.5895E-01
8	10.9011E-01	10.7347E-01	10.6534E-01	11.2542E-01	11.0508E-01	10.9643E-01
10	11.2931E-01	11.0554E-01	10.9450E-01	11.8031E-01	11.5248E-01	11.4200E-01
12	11.7309E-01	11.4178E-01	11.2784E-01	12.4211E-01	12.0792E-01	11.9565E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1589E-01	10.1392E-01	10.1267E-01	10.2014E-01	10.1835E-01	10.1706E-01
4	10.3476E-01	10.4645E-01	10.4267E-01	10.7362E-01	10.6472E-01	10.6049E-01
6	11.0975E-01	10.9419E-01	10.8772E-01	11.5193E-01	11.3478E-01	11.2830E-01
8	11.7858E-01	11.5583E-01	11.4757E-01	12.5262E-01	12.2824E-01	12.2666E-01
10	12.4373E-01	12.3164E-01	12.2239E-01	13.7593E-01	13.4593E-01	13.3620E-01
12	13.9646E-01	13.2200E-01	13.1232E-01	15.2324E-01	14.8924E-01	14.8200E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2349E-01	10.2395E-01	10.2261E-01	10.6052E-01	10.3919E-01	10.3743E-01
4	10.9790E-01	10.8812E-01	10.8365E-01	11.6466E-01	11.5216E-01	11.4730E-01
6	12.0685E-01	11.8800E-01	11.8166E-01	13.5773E-01	13.3551E-01	13.2981E-01
8	13.3010E-01	13.2424E-01	13.1758E-01	16.2275E-01	15.9492E-01	15.9005E-01
10	15.2968E-01	14.9919E-01	14.9382E-01	19.7066E-01	19.4077E-01	19.3721E-01
12	17.4941E-01	17.1640E-01	17.1123E-01	24.1748E-01	23.8788E-01	23.8550E-01

MINIMUM SPECIFIC DOSE RATE (RSD./HR. PER CURIE/SQ.CH.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	27.6490E+04	30.7280E+04	70.3513E+04	37.0020E+04	48.6796E+04	66.4798E+04
4	25.1909E+04	43.3791E+04	57.1442E+04	24.2357E+04	40.3261E+04	51.7888E+04
6	23.0790E+04	37.7897E+04	47.9081E+04	21.6776E+04	34.1424E+04	41.8400E+04
8	21.2406E+04	33.3567E+04	41.0313E+04	19.6014E+04	29.3399E+04	34.6395E+04
10	19.6233E+04	29.7417E+04	35.7002E+04	17.8001E+04	25.4977E+04	29.2097E+04
12	18.1882E+04	26.7331E+04	31.4451E+04	16.2204E+04	22.3586E+04	24.9924E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	26.2924E+04	46.3340E+04	61.9939E+04	25.5423E+04	43.8753E+04	57.4499E+04
4	22.8635E+04	36.7895E+04	45.7188E+04	21.3549E+04	33.2831E+04	40.0249E+04
6	20.0417E+04	29.9111E+04	35.2909E+04	18.3530E+04	26.0737E+04	29.5667E+04
8	17.6746E+04	24.8979E+04	28.1119E+04	15.7315E+04	20.8984E+04	22.7438E+04
10	15.6599E+04	20.9597E+04	22.9362E+04	13.9546E+04	17.0476E+04	18.0344E+04
12	13.9259E+04	17.8440E+04	19.0718E+04	11.7262E+04	14.1039E+04	14.6361E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	24.7686E+04	41.4762E+04	53.1026E+04	23.1983E+04	36.9114E+04	45.3512E+04
4	20.2432E+04	30.0136E+04	35.0263E+04	17.7200E+04	24.4006E+04	27.1081E+04
6	16.7076E+04	22.6119E+04	24.8639E+04	13.7131E+04	17.0949E+04	18.0021E+04
8	13.8946E+04	17.5250E+04	18.9560E+04	10.7191E+04	12.4621E+04	12.7715E+04
10	11.6263E+04	13.0784E+04	14.3556E+04	8.3983E+03	97.4707E+03	94.5369E+03
12	97.7044E+03	11.1774E+04	11.4000E+04	66.8064E+03	71.3380E+03	71.9277E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 40 IN. X 90 IN. AIR GAP = 5.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0719E-01	10.0634E-01	10.0576E-01	10.0966E-01	10.0849E-01	10.0772E-01
4	10.2503E-01	10.2107E-01	10.1876E-01	10.3339E-01	10.2835E-01	10.2564E-01
6	10.5028E-01	10.4159E-01	10.3697E-01	10.6709E-01	10.5673E-01	10.5179E-01
8	10.8130E-01	10.6690E-01	10.5968E-01	11.0904E-01	10.9260E-01	10.8532E-01
10	11.1737E-01	10.9648E-01	10.8656E-01	11.5848E-01	11.3625E-01	11.2732E-01
12	11.5779E-01	11.3002E-01	11.1738E-01	12.1509E-01	11.8703E-01	11.7660E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1153E-01	10.1075E-01	10.1010E-01	10.1367E-01	10.1370E-01	10.1327E-01
4	10.4322E-01	10.3853E-01	10.3592E-01	10.5690E-01	10.5284E-01	10.5040E-01
6	10.9073E-01	10.8046E-01	10.7982E-01	11.2671E-01	11.1461E-01	11.1032E-01
8	11.5203E-01	11.3593E-01	11.2669E-01	12.1477E-01	11.9878E-01	11.9341E-01
10	12.2690E-01	12.0447E-01	11.9772E-01	13.2644E-01	13.0606E-01	13.0035E-01
12	13.1423E-01	12.8794E-01	12.8021E-01	14.6256E-01	14.3773E-01	14.3222E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1662E-01	10.1762E-01	10.1743E-01	10.2615E-01	10.2893E-01	10.2908E-01
4	10.7535E-01	10.7190E-01	10.6997E-01	11.2947E-01	11.2538E-01	11.2324E-01
6	11.7054E-01	11.6022E-01	11.5624E-01	13.0067E-01	12.8897E-01	12.8532E-01
8	12.9941E-01	12.8321E-01	12.7842E-01	15.1120E-01	15.2427E-01	15.2105E-01
10	14.6345E-01	14.4296E-01	14.3855E-01	18.4054E-01	18.4092E-01	18.3844E-01
12	16.6507E-01	16.4271E-01	16.3889E-01	22.7282E-01	22.5256E-01	22.5085E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	25.4220E+04	46.8240E+04	65.1356E+04	24.9412E+04	45.2127E+04	61.9819E+04
4	23.2699E+04	40.2853E+04	53.2671E+04	22.4239E+04	37.7469E+04	48.6802E+04
6	21.4020E+04	35.2912E+04	44.8618E+04	20.2715E+04	32.1197E+04	39.4998E+04
8	19.7632E+04	31.2253E+04	38.5535E+04	18.4051E+04	27.7027E+04	32.8021E+04
10	18.3116E+04	27.9219E+04	33.6357E+04	16.7692E+04	24.1434E+04	27.7274E+04
12	17.0161E+04	25.1592E+04	29.6936E+04	15.3230E+04	21.2194E+04	23.7700E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	24.3963E+04	43.2899E+04	58.1757E+04	23.8055E+04	41.2344E+04	54.2200E+04
4	21.4149E+04	34.6592E+04	43.2650E+04	20.3216E+04	31.5867E+04	38.1087E+04
6	18.8936E+04	28.4343E+04	33.5503E+04	17.4291E+04	24.8866E+04	28.2792E+04
8	16.7498E+04	23.6740E+04	26.8075E+04	15.0155E+04	20.0225E+04	21.8197E+04
10	14.8858E+04	20.8019E+04	21.9217E+04	12.9834E+04	16.3700E+04	17.3410E+04
12	13.2792E+04	17.0659E+04	18.2611E+04	11.2651E+04	13.5786E+04	14.0988E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	23.1830E+04	39.1531E+04	50.3449E+04	21.8850E+04	35.1343E+04	43.3565E+04
4	19.1965E+04	28.6435E+04	33.5189E+04	16.9764E+04	23.4994E+04	28.1548E+04
6	15.9701E+04	21.7087E+04	23.9043E+04	13.2483E+04	16.5627E+04	17.4344E+04
8	13.3525E+04	16.8874E+04	17.6937E+04	10.4804E+04	12.1146E+04	12.4241E+04
10	11.2118E+04	13.4897E+04	13.6771E+04	82.2217E+03	91.1382E+03	92.1880E+03
12	94.4703E+03	10.8220E+04	11.0402E+04	65.2307E+03	69.9039E+03	70.2682E+03

COAL T 40 SOURCE

RECTANGULAR SLAB SOURCE = 40 IN. X 90 IN. AIR GAP = 6.0 IN. X = 0.00 A = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATIONS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	1 G/CC	2	4	6	9
2	10.0531E-01	10.0531E-01	10.0531E-01	10.0531E-01	10.0531E-01
4	10.1895E-01	10.1895E-01	10.1895E-01	10.1895E-01	10.1895E-01
6	10.4310E-01	10.4310E-01	10.4310E-01	10.4310E-01	10.4310E-01
8	10.6725E-01	10.6725E-01	10.6725E-01	10.6725E-01	10.6725E-01
10	10.9140E-01	10.9140E-01	10.9140E-01	10.9140E-01	10.9140E-01
12	11.1555E-01	11.1555E-01	11.1555E-01	11.1555E-01	11.1555E-01
TARGET THICKNESS INCHES <th>5 G/CC</th> <th>2</th> <th>4</th> <th>6</th> <th>9</th>	5 G/CC	2	4	6	9
2	10.0833E-01	10.0833E-01	10.0833E-01	10.0833E-01	10.0833E-01
4	10.2048E-01	10.2048E-01	10.2048E-01	10.2048E-01	10.2048E-01
6	10.4463E-01	10.4463E-01	10.4463E-01	10.4463E-01	10.4463E-01
8	10.6878E-01	10.6878E-01	10.6878E-01	10.6878E-01	10.6878E-01
10	10.9293E-01	10.9293E-01	10.9293E-01	10.9293E-01	10.9293E-01
12	11.1708E-01	11.1708E-01	11.1708E-01	11.1708E-01	11.1708E-01
TARGET THICKNESS INCHES <th>9 G/CC</th> <th>4</th> <th>6</th> <th>9</th> <th>1.5 G/CC</th>	9 G/CC	4	6	9	1.5 G/CC
2	10.0811E-01	10.0811E-01	10.0811E-01	10.0811E-01	10.0811E-01
4	10.2026E-01	10.2026E-01	10.2026E-01	10.2026E-01	10.2026E-01
6	10.4441E-01	10.4441E-01	10.4441E-01	10.4441E-01	10.4441E-01
8	10.6856E-01	10.6856E-01	10.6856E-01	10.6856E-01	10.6856E-01
10	10.9271E-01	10.9271E-01	10.9271E-01	10.9271E-01	10.9271E-01
12	11.1686E-01	11.1686E-01	11.1686E-01	11.1686E-01	11.1686E-01
TARGET THICKNESS INCHES <th>1.5 G/CC</th> <th>2</th> <th>4</th> <th>6</th> <th>9</th>	1.5 G/CC	2	4	6	9
2	10.1549E-01	10.1549E-01	10.1549E-01	10.1549E-01	10.1549E-01
4	10.2764E-01	10.2764E-01	10.2764E-01	10.2764E-01	10.2764E-01
6	10.5179E-01	10.5179E-01	10.5179E-01	10.5179E-01	10.5179E-01
8	10.7594E-01	10.7594E-01	10.7594E-01	10.7594E-01	10.7594E-01
10	11.0009E-01	11.0009E-01	11.0009E-01	11.0009E-01	11.0009E-01
12	11.2424E-01	11.2424E-01	11.2424E-01	11.2424E-01	11.2424E-01

MINIMUM SPECIFIC DOSE RATE (RAD/HR. PER CM<sup>2</sup>/SQ. CM.) FOR 2.5-G PASS IRRADIATIONS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	1 G/CC	2	4	6	9
2	10.1018E-01	10.1285E-01	10.1390E-01	10.1390E-01	10.1390E-01
4	10.2432E-01	10.2432E-01	10.2432E-01	10.2432E-01	10.2432E-01
6	10.4847E-01	10.4847E-01	10.4847E-01	10.4847E-01	10.4847E-01
8	10.7262E-01	10.7262E-01	10.7262E-01	10.7262E-01	10.7262E-01
10	10.9677E-01	10.9677E-01	10.9677E-01	10.9677E-01	10.9677E-01
12	11.2092E-01	11.2092E-01	11.2092E-01	11.2092E-01	11.2092E-01
TARGET THICKNESS INCHES <th>5 G/CC</th> <th>2</th> <th>4</th> <th>6</th> <th>9</th>	5 G/CC	2	4	6	9
2	10.2239E-01	10.2239E-01	10.2239E-01	10.2239E-01	10.2239E-01
4	10.4654E-01	10.4654E-01	10.4654E-01	10.4654E-01	10.4654E-01
6	10.7069E-01	10.7069E-01	10.7069E-01	10.7069E-01	10.7069E-01
8	10.9484E-01	10.9484E-01	10.9484E-01	10.9484E-01	10.9484E-01
10	11.1899E-01	11.1899E-01	11.1899E-01	11.1899E-01	11.1899E-01
12	11.4314E-01	11.4314E-01	11.4314E-01	11.4314E-01	11.4314E-01
TARGET THICKNESS INCHES <th>9 G/CC</th> <th>4</th> <th>6</th> <th>9</th> <th>1.5 G/CC</th>	9 G/CC	4	6	9	1.5 G/CC
2	10.0823E-01	10.0823E-01	10.0823E-01	10.0823E-01	10.0823E-01
4	10.2038E-01	10.2038E-01	10.2038E-01	10.2038E-01	10.2038E-01
6	10.4453E-01	10.4453E-01	10.4453E-01	10.4453E-01	10.4453E-01
8	10.6868E-01	10.6868E-01	10.6868E-01	10.6868E-01	10.6868E-01
10	10.9283E-01	10.9283E-01	10.9283E-01	10.9283E-01	10.9283E-01
12	11.1698E-01	11.1698E-01	11.1698E-01	11.1698E-01	11.1698E-01
TARGET THICKNESS INCHES <th>1.5 G/CC</th> <th>2</th> <th>4</th> <th>6</th> <th>9</th>	1.5 G/CC	2	4	6	9
2	10.1791E-01	10.1791E-01	10.1791E-01	10.1791E-01	10.1791E-01
4	10.3206E-01	10.3206E-01	10.3206E-01	10.3206E-01	10.3206E-01
6	10.5621E-01	10.5621E-01	10.5621E-01	10.5621E-01	10.5621E-01
8	10.8036E-01	10.8036E-01	10.8036E-01	10.8036E-01	10.8036E-01
10	11.0451E-01	11.0451E-01	11.0451E-01	11.0451E-01	11.0451E-01
12	11.2866E-01	11.2866E-01	11.2866E-01	11.2866E-01	11.2866E-01

COULT 60 SOURCE

RECTANGULAR SLOD SOURCE = 40 IN. X 90 IN. AIR GAP = 7.0 IN. H = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS GEOMETRIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0556E-01	10.0501E-01	10.0461E-01	10.0619E-01	10.0561E-01	10.0540E-01
4	10.1704E-01	10.1711E-01	10.1747E-01	10.1731E-01	10.1709E-01	10.1700E-01
6	10.4663E-01	10.4636E-01	10.4601E-01	10.4617E-01	10.4612E-01	10.4612E-01
8	10.6671E-01	10.6632E-01	10.6610E-01	10.6694E-01	10.6701E-01	10.6698E-01
10	10.9734E-01	10.9727E-01	10.9729E-01	11.1207E-01	11.1007E-01	11.0979E-01
12	11.3210E-01	11.3076E-01	10.9964E-01	11.7149E-01	11.5734E-01	11.4972E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0692E-01	10.0647E-01	10.0664E-01	10.0551E-01	10.0571E-01	10.0526E-01
4	10.2077E-01	10.2077E-01	10.2010E-01	10.2340E-01	10.2044E-01	10.2094E-01
6	10.6239E-01	10.6204E-01	10.6202E-01	10.6442E-01	10.6442E-01	10.6391E-01
8	11.1141E-01	11.0927E-01	11.0817E-01	11.2400E-01	11.2344E-01	11.2160E-01
10	11.7277E-01	11.6911E-01	11.5912E-01	12.2043E-01	12.1404E-01	12.1113E-01
12	12.4744E-01	12.3342E-01	12.2913E-01	12.6767E-01	12.5792E-01	12.5323E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0646E-01	10.0616E-01	10.1012E-01	10.0732E-01	10.1031E-01	10.1762E-01
4	10.4979E-01	10.4890E-01	10.4947E-01	10.7007E-01	10.6717E-01	10.6676E-01
6	11.1044E-01	11.1040E-01	11.1027E-01	12.1442E-01	12.1004E-01	12.1072E-01
8	12.1100E-01	12.1007E-01	12.1004E-01	14.1907E-01	14.1470E-01	14.1419E-01
10	13.9700E-01	13.9400E-01	13.9321E-01	16.0714E-01	16.0046E-01	16.0000E-01
12	15.9321E-01	15.7842E-01	15.7402E-01	18.0277E-01	18.0700E-01	18.0670E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/50-CA. 1) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS GEOMETRIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	21.4007E+04	42.2010E+04	54.2400E+04	21.4000E+04	20.1700E+04	54.0716E+04
4	20.0000E+04	20.0732E+04	44.5000E+04	10.6220E+04	21.0011E+04	43.0000E+04
6	20.2000E+04	20.0000E+04	30.0430E+04	17.7000E+04	20.0000E+04	20.7000E+04
8	17.2117E+04	27.0000E+04	24.1700E+04	24.2500E+04	24.7500E+04	20.0000E+04
10	14.0731E+04	24.7000E+04	20.0000E+04	24.7000E+04	21.0700E+04	25.0000E+04
12	14.0000E+04	22.3777E+04	20.0000E+04	13.0000E+04	19.1500E+04	21.0000E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	21.0000E+04	37.0000E+04	41.0000E+04	20.0000E+04	20.0000E+04	40.0000E+04
4	10.7000E+04	20.0000E+04	20.0000E+04	10.0000E+04	20.0000E+04	20.0000E+04
6	20.0000E+04	20.0000E+04	20.0000E+04	10.0000E+04	20.0000E+04	20.0000E+04
8	10.0000E+04	20.0000E+04	20.0000E+04	10.0000E+04	20.0000E+04	20.0000E+04
10	10.0000E+04	10.0000E+04	20.0000E+04	10.0000E+04	20.0000E+04	20.0000E+04
12	12.0000E+04	10.0000E+04	10.0000E+04	10.0000E+04	12.0000E+04	10.0000E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	20.2750E+04	24.7000E+04	05.1100E+04	09.0000E+04	21.2000E+04	50.3710E+04
4	17.0000E+04	20.0000E+04	20.0000E+04	20.0000E+04	21.0000E+04	20.0000E+04
6	10.0000E+04	10.0000E+04	21.0000E+04	10.0000E+04	10.0000E+04	10.0000E+04
8	10.0000E+04	10.0000E+04	10.0000E+04	07.0000E+04	11.3700E+04	11.0731E+04
10	10.0000E+04	10.0000E+04	10.0000E+04	07.0000E+04	00.0000E+04	07.0000E+04
12	07.0000E+04	10.0000E+04	10.0000E+04	01.0000E+04	00.0000E+04	00.0000E+04

RECTANGULAR SLAB SOURCE = 40 IN. X120 IN.

AIR GAP = 0.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	99.7417E-02	99.5601E-02	99.8253E-02	10.0556E-01	10.0747E-01	10.0759E-01
4	99.3912E-02	10.9421E-01	10.0659E-01	10.3774E-01	10.3244E-01	10.2964E-01
6	10.1749E-01	10.2437E-01	10.2743E-01	10.0200E-01	10.7024E-01	10.6204E-01
8	10.2194E-01	10.2219E-01	10.6485E-01	11.4818E-01	11.049E-01	11.751E-01
10	10.9543E-01	10.0579E-01	10.7830E-01	12.0760E-01	11.7344E-01	11.6092E-01
12	11.4332E-01	11.2602E-01	11.1304E-01	12.7900E-01	12.3700E-01	12.2296E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2431E-01	10.2066E-01	10.1031E-01	10.4473E-01	10.3540E-01	10.3000E-01
4	10.0134E-01	10.6402E-01	10.5090E-01	11.3172E-01	11.0511E-01	10.9524E-01
6	11.6464E-01	11.2064E-01	11.3779E-01	12.4264E-01	12.0170E-01	11.8011E-01
8	12.4410E-01	12.0099E-01	11.9344E-01	14.7370E-01	13.2389E-01	13.0211E-01
10	13.4918E-01	13.0904E-01	12.4634E-01	15.1262E-01	14.7327E-01	14.5911E-01
12	14.0452E-01	14.1100E-01	13.9610E-01	17.1570E-01	16.5104E-01	16.3909E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.6373E-01	10.3255E-01	10.4530E-01	11.1545E-01	10.9047E-01	10.8029E-01
4	11.0755E-01	11.3190E-01	11.3490E-01	13.1704E-01	12.6415E-01	12.5050E-01
6	13.4210E-01	12.9091E-01	12.7591E-01	15.0704E-01	14.2160E-01	13.9691E-01
8	15.3255E-01	14.7199E-01	14.5445E-01	17.3762E-01	16.5797E-01	16.4576E-01
10	17.6199E-01	16.9345E-01	16.8140E-01	23.0595E-01	23.1640E-01	23.0075E-01
12	20.3741E-01	19.6991E-01	19.6095E-01	29.5365E-01	28.6087E-01	28.0195E-01

MINIMUM SPECIFIC DOSE RATE (RAD./MIN. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	70.2580E+04	69.9005E+04	70.6207E+04	35.6000E+04	37.6034E+04	36.2200E+04
4	30.0214E+04	30.4071E+04	27.7381E+04	31.5149E+04	31.9131E+04	30.0420E+04
6	31.0497E+04	31.4193E+04	28.6597E+04	27.0076E+04	28.4234E+04	27.4729E+04
8	29.1034E+04	29.0944E+04	28.0400E+04	25.0470E+04	26.0790E+04	25.3903E+04
10	26.4922E+04	26.4924E+04	27.0179E+04	22.5432E+04	23.0755E+04	22.3554E+04
12	24.3752E+04	25.7140E+04	21.8403E+04	20.3934E+04	21.0200E+04	20.0127E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	33.5234E+04	34.1171E+04	26.9017E+04	31.6330E+04	33.2195E+04	30.4291E+04
4	20.4499E+04	19.0055E+04	20.3349E+04	25.0514E+04	26.2701E+04	24.0791E+04
6	20.5637E+04	20.2454E+04	17.3704E+04	21.5495E+04	20.3220E+04	20.2313E+04
8	21.3479E+04	20.0090E+04	18.5030E+04	18.2740E+04	18.0017E+04	18.1367E+04
10	19.7844E+04	24.9177E+04	21.1840E+04	15.6097E+04	24.5182E+04	20.5141E+04
12	19.5052E+04	25.1014E+04	22.5080E+04	13.6107E+04	18.0790E+04	16.6412E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	29.0073E+04	40.9175E+04	41.0000E+04	26.0404E+04	41.7700E+04	50.0041E+04
4	23.5251E+04	24.1760E+04	20.0041E+04	19.6500E+04	26.7025E+04	29.0544E+04
6	19.0102E+04	29.5203E+04	27.9900E+04	14.0215E+04	18.5100E+04	19.4724E+04
8	15.4304E+04	19.4151E+04	20.7304E+04	11.3434E+04	13.7913E+04	13.7193E+04
10	12.9814E+04	19.4424E+04	19.0410E+04	09.3415E+03	09.9575E+03	10.1047E+04
12	10.8967E+04	12.3095E+04	12.6271E+04	71.2450E+03	70.7014E+03	76.6700E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 40 IN. X 120 IN.

AIR GAP = 1.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0282E-01	10.0450E-01	10.0475E-01	10.1498E-01	10.1429E-01	10.1255E-01
4	10.2173E-01	10.2086E-01	10.1914E-01	10.5610E-01	10.4473E-01	10.3915E-01
6	10.5244E-01	10.4523E-01	10.4043E-01	11.0702E-01	10.8535E-01	10.7595E-01
8	10.9092E-01	10.7561E-01	10.6732E-01	11.6649E-01	11.3465E-01	11.2195E-01
10	11.3521E-01	11.1095E-01	10.9906E-01	12.3355E-01	11.9217E-01	11.7600E-01
12	11.8431E-01	11.5066E-01	11.3523E-01	13.0799E-01	12.5782E-01	12.4042E-01

  

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3207E-01	10.2524E-01	10.2173E-01	10.4876E-01	10.3784E-01	10.3266E-01
4	10.9405E-01	10.7379E-01	10.6519E-01	11.3740E-01	11.0927E-01	10.9825E-01
6	11.7151E-01	11.3828E-01	11.2586E-01	12.4905E-01	12.0608E-01	11.9184E-01
8	12.6221E-01	12.1798E-01	12.0320E-01	13.8239E-01	13.2852E-01	13.1345E-01
10	13.6630E-01	13.1315E-01	12.9728E-01	15.3944E-01	14.7837E-01	14.6382E-01
12	14.8458E-01	14.2442E-01	14.0842E-01	17.2279E-01	16.5732E-01	16.4425E-01

  

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.6725E-01	10.5224E-01	10.4550E-01	11.0974E-01	10.8661E-01	10.7708E-01
4	11.8734E-01	11.5167E-01	11.3880E-01	13.0638E-01	12.5825E-01	12.4338E-01
6	13.4092E-01	12.8987E-01	12.7487E-01	15.7154E-01	15.0927E-01	14.9515E-01
8	15.2970E-01	14.6900E-01	14.5465E-01	19.1690E-01	18.4941E-01	18.3855E-01
10	17.5831E-01	16.9269E-01	16.8038E-01	23.5930E-01	22.9265E-01	22.8521E-01
12	20.3260E-01	19.6559E-01	19.5575E-01	29.2004E-01	28.5778E-01	28.5303E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CH.) FOR 2+6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	35.8284E+04	65.4415E+04	90.3494E+04	34.0355E+04	60.575 E+04	82.0057E+04
4	32.9145E+04	55.9017E+04	72.7086E+04	29.8822E+04	49.297 E+04	62.8241E+04
6	29.6130E+04	48.0384E+04	60.6258E+04	26.9398E+04	41.2872E+04	50.3009E+04
8	27.0977E+04	42.2009E+04	51.7528E+04	23.7724E+04	35.2185E+04	41.4103E+04
10	24.9079E+04	37.4952E+04	44.9364E+04	21.4304E+04	30.4441E+04	34.7852E+04
12	22.9872E+04	33.6154E+04	39.5287E+04	19.4155E+04	26.5902E+04	29.6797E+04

  

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	32.3319E+04	55.9503E+04	74.0474E+04	30.7259E+04	51.7047E+04	66.8927E+04
4	27.3930E+04	43.3867E+04	53.4942E+04	25.1035E+04	38.1660E+04	45.5834E+04
6	23.6184E+04	34.9102E+04	40.8605E+04	20.9789E+04	29.4896E+04	33.3050E+04
8	20.5940E+04	28.7373E+04	32.3334E+04	17.7706E+04	23.4343E+04	25.4432E+04
10	18.0972E+04	24.0475E+04	26.2374E+04	15.1880E+04	19.0036E+04	20.0763E+04
12	15.9937E+04	20.3819E+04	21.7366E+04	13.0626E+04	15.6599E+04	16.2326E+04

  

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	29.2180E+04	47.8556E+04	60.9795E+04	26.4814E+04	41.2421E+04	50.1820E+04
4	23.0212E+04	33.6589E+04	39.0602E+04	19.4305E+04	26.4801E+04	29.3194E+04
6	18.6373E+04	25.0102E+04	27.4248E+04	14.7607E+04	18.3102E+04	19.2599E+04
8	15.3235E+04	19.2234E+04	20.3298E+04	11.6226E+04	13.2486E+04	13.5724E+04
10	12.7241E+04	15.1385E+04	15.6481E+04	89.3991E+03	98.8971E+03	10.0012E+04
12	10.6377E+04	12.1435E+04	12.3811E+04	70.4960E+03	75.4684E+03	75.8550E+03

CUBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 40 IN. X120 IN.

AIR GAP = 2.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0770E-01	10.0716E-01	10.0659E-01	10.1769E-01	10.1438E-01	10.1249E-01
4	10.2910E-01	10.2864E-01	10.2181E-01	10.3500E-01	10.4342E-01	10.3792E-01
6	10.5874E-01	10.4886E-01	10.4300E-01	11.0296E-01	10.8189E-01	10.7293E-01
8	16.9695E-01	10.7835E-01	10.6917E-01	11.5907E-01	11.3862E-01	11.1647E-01
10	11.3938E-01	11.1236E-01	10.9977E-01	12.2256E-01	11.8323E-01	11.6858E-01
12	11.8629E-01	11.5044E-01	11.3451E-01	12.9325E-01	12.4968E-01	12.2912E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2827E-01	10.2252E-01	10.1952E-01	10.4024E-01	10.3211E-01	10.2808E-01
4	10.8444E-01	10.6703E-01	10.5952E-01	11.1944E-01	10.9665E-01	10.8752E-01
6	11.5607E-01	11.2707E-01	11.1605E-01	12.2204E-01	11.8621E-01	11.7408E-01
8	12.4100E-01	12.0192E-01	11.8667E-01	13.4667E-01	13.0008E-01	12.6773E-01
10	13.3920E-01	12.9181E-01	12.7745E-01	14.9466E-01	14.4192E-01	14.2914E-01
12	14.5134E-01	13.9728E-01	13.8272E-01	16.6829E-01	16.1114E-01	15.9956E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.5389E-01	10.4334E-01	10.3831E-01	10.8666E-01	10.7899E-01	10.6410E-01
4	11.6063E-01	11.3275E-01	11.2238E-01	12.6247E-01	12.2549E-01	12.1372E-01
6	13.0199E-01	12.8036E-01	12.4783E-01	15.0724E-01	14.5712E-01	14.4555E-01
8	14.7836E-01	14.2764E-01	14.1543E-01	18.2982E-01	17.7419E-01	17.6511E-01
10	16.9357E-01	16.3788E-01	16.2727E-01	22.4538E-01	21.8962E-01	21.8032E-01
12	19.5292E-01	18.9541E-01	18.8683E-01	27.7374E-01	27.2109E-01	27.1703E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CH.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	33.1780E+04	60.6724E+04	83.9308E+04	31.8497E+04	56.8754E+04	77.1984E+04
4	30.1153E+04	51.6371E+04	67.8858E+04	28.0744E+04	46.5277E+04	59.4680E+04
6	27.4943E+04	44.8610E+04	56.6302E+04	25.0257E+04	39.1145E+04	47.7854E+04
8	25.2316E+04	39.5417E+04	48.6819E+04	22.4855E+04	33.4425E+04	39.4437E+04
10	23.2584E+04	35.2357E+04	42.3873E+04	20.3230E+04	28.9911E+04	33.2013E+04
12	21.5217E+04	31.6709E+04	37.3740E+04	18.4531E+04	25.3732E+04	28.3752E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	30.5309E+04	53.0761E+04	70.4430E+04	29.2429E+04	49.4632E+04	64.1719E+04
4	26.0364E+04	41.4123E+04	51.1760E+04	24.0872E+04	36.7554E+04	43.9725E+04
6	22.5452E+04	33.4422E+04	39.2120E+04	20.2203E+04	28.4962E+04	32.2175E+04
8	19.7180E+04	27.5974E+04	31.0946E+04	17.1766E+04	22.6932E+04	24.6563E+04
10	17.3669E+04	23.1367E+04	25.2912E+04	14.7887E+04	18.4300E+04	19.4801E+04
12	15.3759E+04	19.4388E+04	20.9815E+04	12.4682E+04	15.1986E+04	15.7658E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	27.4976E+04	46.1002E+04	58.5110E+04	25.4543E+04	40.1534E+04	48.9611E+04
4	22.2611E+04	32.6481E+04	37.4334E+04	19.0075E+04	25.9572E+04	28.7582E+04
6	18.1026E+04	24.3364E+04	28.7020E+04	14.4972E+04	17.9966E+04	18.9355E+04
8	14.9220E+04	18.7403E+04	19.2217E+04	11.2412E+04	13.0425E+04	13.3619E+04
10	12.4108E+04	14.7763E+04	15.2767E+04	88.0763E+03	97.4447E+03	98.5447E+03
12	10.3870E+04	11.8633E+04	12.0468E+04	69.4968E+03	74.4013E+03	74.7827E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 40 IN. X120 IN.

AIR GAP = 3.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0819E-01	10.0723E-01	10.0652E-01	10.1502E-01	10.1240E-01	10.1007E-01
4	10.2864E-01	10.2379E-01	10.2095E-01	10.4771E-01	10.3827E-01	10.3244E-01
6	10.5720E-01	10.5444E-01	10.4005E-01	10.9074E-01	10.7315E-01	10.6540E-01
8	10.9175E-01	10.7394E-01	10.6522E-01	11.4188E-01	11.1590E-01	11.0542E-01
10	11.3119E-01	11.0546E-01	10.9376E-01	12.0531E-01	11.6441E-01	11.5350E-01
12	11.7489E-01	11.4120E-01	11.2617E-01	12.6580E-01	12.2436E-01	12.0944E-01

  

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2207E-01	10.1825E-01	10.1612E-01	10.3021E-01	10.2591E-01	10.2264E-01
4	10.6991E-01	10.5703E-01	10.5121E-01	10.9732E-01	10.8123E-01	10.7444E-01
6	11.3359E-01	11.1690E-01	11.0209E-01	11.6847E-01	11.4618E-01	11.5218E-01
8	12.1075E-01	11.7931E-01	11.6434E-01	13.0220E-01	12.6440E-01	12.5572E-01
10	13.0112E-01	12.6217E-01	12.5005E-01	14.3844E-01	13.9642E-01	13.8590E-01
12	14.0512E-01	13.5990E-01	13.4752E-01	15.9944E-01	15.5334E-01	15.4360E-01

  

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3803E-01	10.3382E-01	10.3041E-01	10.4430E-01	10.5548E-01	10.5118E-01
4	11.3764E-01	11.1411E-01	11.0384E-01	12.1591E-01	11.9058E-01	11.8208E-01
6	12.5708E-01	12.2417E-01	12.1653E-01	14.3678E-01	13.9901E-01	13.9099E-01
8	14.1823E-01	13.7810E-01	13.6941E-01	17.3273E-01	16.9014E-01	16.8302E-01
10	16.1703E-01	15.7299E-01	15.6439E-01	21.1694E-01	20.7329E-01	20.6826E-01
12	18.5806E-01	18.1179E-01	18.0474E-01	26.0792E-01	25.6563E-01	25.6234E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/50 CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	30.6044E+04	56.1506E+04	77.8938E+04	29.6130E+04	53.1555E+04	72.6055E+04
4	27.8791E+04	48.0544E+04	63.4154E+04	26.2803E+04	43.6034E+04	56.1800E+04
6	25.5442E+04	41.9320E+04	53.3388E+04	23.5425E+04	36.9974E+04	45.3394E+04
8	23.5198E+04	37.0922E+04	45.8448E+04	21.2334E+04	31.7597E+04	37.5382E+04
10	21.7452E+04	33.1521E+04	40.0296E+04	19.2900E+04	27.5420E+04	31.6700E+04
12	20.1754E+04	29.8746E+04	35.3770E+04	17.5230E+04	24.1983E+04	27.1158E+04

  

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	28.5897E+04	50.0201E+04	66.6432E+04	27.5601E+04	46.9458E+04	61.1618E+04
4	24.6063E+04	39.3574E+04	48.7795E+04	22.9573E+04	35.2015E+04	42.2136E+04
6	21.4304E+04	31.9340E+04	37.5266E+04	19.3857E+04	27.4194E+04	31.8044E+04
8	18.8100E+04	26.4369E+04	29.8374E+04	16.5327E+04	21.9003E+04	23.8100E+04
10	16.6231E+04	22.2137E+04	24.3158E+04	14.1941E+04	17.8230E+04	18.8307E+04
12	14.7511E+04	18.8912E+04	20.2028E+04	12.2512E+04	14.7209E+04	15.2794E+04

  

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	26.5398E+04	44.0187E+04	56.0772E+04	24.5637E+04	33.7166E+04	47.3574E+04
4	21.3585E+04	31.4481E+04	36.6388E+04	18.4408E+04	23.2688E+04	28.0368E+04
6	17.4789E+04	23.5443E+04	23.8795E+04	14.1589E+04	17.5973E+04	18.5204E+04
8	14.4626E+04	18.1961E+04	17.2561E+04	11.0098E+04	12.7832E+04	13.8088E+04
10	12.0583E+04	14.3741E+04	14.8652E+04	8.4280E+03	9.5363E+03	9.67429E+03
12	10.1094E+04	11.3560E+04	11.7859E+04	6.82820E+03	7.3.1152E+03	73.4915E+03



RECTANGULAR SLAB SOURCE = 40 IN. X 120 IN.

AIR GAP = 4.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.9797E-01	10.0664E-01	10.0599E-01	10.1219E-01	10.1030E-01	10.0919E-01
4	10.2619E-01	10.2100E-01	10.1924E-01	10.4607E-01	10.3291E-01	10.2927E-01
6	10.3223E-01	10.4200E-01	10.3791E-01	10.7000E-01	10.6419E-01	10.5770E-01
8	10.6192E-01	10.6799E-01	10.6003E-01	11.2414E-01	11.0904E-01	10.9419E-01
10	11.2524E-01	10.9727E-01	10.8640E-01	11.7743E-01	11.4524E-01	11.3019E-01
12	11.6760E-01	11.3021E-01	11.1642E-01	12.3760E-01	12.0266E-01	11.8909E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1644E-01	10.1443E-01	10.1330E-01	10.2192E-01	10.1957E-01	10.1802E-01
4	10.2693E-01	10.4776E-01	10.4351E-01	10.7779E-01	10.6752E-01	10.6201E-01
6	11.1234E-01	10.9777E-01	10.8990E-01	11.5010E-01	11.3910E-01	11.3211E-01
8	11.0101E-01	11.3700E-01	11.4642E-01	12.0432E-01	12.3429E-01	12.2699E-01
10	12.6495E-01	12.3997E-01	12.2345E-01	13.0597E-01	13.5944E-01	13.4510E-01
12	13.0722E-01	13.2970E-01	13.1341E-01	13.9509E-01	14.9640E-01	14.9064E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2844E-01	10.2995E-01	10.2421E-01	10.4590E-01	10.4209E-01	10.4044E-01
4	11.0491E-01	10.9309E-01	10.8797E-01	11.7569E-01	11.6027E-01	11.5461E-01
6	12.1647E-01	12.9520E-01	11.8029E-01	13.7309E-01	13.4690E-01	13.4219E-01
8	13.6101E-01	13.3444E-01	13.2706E-01	16.4647E-01	16.1342E-01	16.0020E-01
10	15.4587E-01	15.1203E-01	15.0900E-01	19.9094E-01	19.6020E-01	19.6042E-01
12	17.0919E-01	17.3348E-01	17.2744E-01	24.9369E-01	24.2162E-01	24.1909E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/50. CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	20.2403E+04	52.0176E+04	12.3700E+04	27.4943E+04	49.6241E+04	67.0497E+04
4	23.0431E+04	44.7835E+04	59.3210E+04	24.9793E+04	41.2996E+04	53.6448E+04
6	23.7492E+04	39.2919E+04	50.1239E+04	22.1290E+04	34.0740E+04	42.0000E+04
8	21.9509E+04	34.0444E+04	43.2910E+04	20.0391E+04	30.1334E+04	38.7170E+04
10	20.3612E+04	31.2949E+04	37.0522E+04	18.2294E+04	26.2510E+04	30.2094E+04
12	18.0404E+04	28.2160E+04	33.5297E+04	16.4342E+04	23.0749E+04	29.0104E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	26.6922E+04	47.0152E+04	62.6999E+04	29.0641E+04	44.2049E+04	58.0944E+04
4	23.1913E+04	37.1231E+04	44.4090E+04	21.7097E+04	33.6040E+04	40.4091E+04
6	23.1233E+04	30.4300E+04	36.0540E+04	18.5224E+04	26.3197E+04	29.0440E+04
8	17.9239E+04	25.2097E+04	28.9031E+04	15.0679E+04	21.0090E+04	22.9580E+04
10	15.0447E+04	21.3039E+04	23.3511E+04	13.0670E+04	17.2010E+04	18.7066E+04
12	14.2316E+04	18.1922E+04	19.4334E+04	11.0232E+04	14.2399E+04	14.7792E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	24.0297E+04	41.0332E+04	53.5149E+04	23.3599E+04	37.1099E+04	49.5502E+04
4	20.3936E+04	30.2044E+04	35.2441E+04	17.7096E+04	24.6752E+04	27.1020E+04
6	16.0579E+04	22.7303E+04	29.0039E+04	13.7646E+04	17.1320E+04	18.0497E+04
8	13.9400E+04	17.6197E+04	18.0540E+04	10.7100E+04	12.4034E+04	12.7937E+04
10	11.6017E+04	13.9467E+04	14.4287E+04	04.5243E+03	93.6090E+03	70.6703E+03
12	08.1477E+03	11.2313E+04	11.4567E+04	00.0941E+03	71.6534E+03	72.0247E+03

RECTANGULAR SLAB SOURCE = 40 IN. X120 IN.

AIR GAP = 5.0 IN.

UNIFORMLY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0474E-01	10.0594E-01	10.0539E-01	10.0972E-01	10.0851E-01	10.0771E-01
4	10.2345E-01	10.1949E-01	10.1744E-01	10.3342E-01	10.2820E-01	10.2540E-01
6	10.4707E-01	10.3871E-01	10.3421E-01	10.6484E-01	10.5413E-01	10.5100E-01
8	10.7605E-01	10.6203E-01	10.5494E-01	11.0821E-01	10.9141E-01	10.8403E-01
10	11.0947E-01	10.8910E-01	10.7929E-01	11.5673E-01	11.371E-01	11.2436E-01
12	11.4684E-01	11.1942E-01	11.0707E-01	12.1207E-01	11.8292E-01	11.7196E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1237E-01	10.1135E-01	10.1057E-01	10.1534E-01	10.1502E-01	10.1433E-01
4	10.4540E-01	10.3995E-01	10.3702E-01	10.6165E-01	10.5612E-01	10.5212E-01
6	10.9414E-01	10.8263E-01	10.7751E-01	11.3224E-01	11.1996E-01	11.1497E-01
8	11.5648E-01	11.3872E-01	11.3189E-01	12.2495E-01	12.0621E-01	12.0016E-01
10	12.3177E-01	12.0821E-01	12.0026E-01	13.3963E-01	13.1581E-01	13.0935E-01
12	13.2009E-01	12.9142E-01	12.8293E-01	14.7756E-01	14.4976E-01	14.4354E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1972E-01	10.1978E-01	10.1917E-01	10.3204E-01	10.3295E-01	10.3237E-01
4	10.8306E-01	10.7720E-01	10.7412E-01	11.4247E-01	11.3518E-01	11.3189E-01
6	11.8225E-01	11.6898E-01	11.6417E-01	13.2040E-01	13.0486E-01	13.0061E-01
8	13.1524E-01	12.9374E-01	12.9039E-01	15.6829E-01	15.4748E-01	15.4368E-01
10	14.8357E-01	14.5967E-01	14.5460E-01	18.9595E-01	18.7284E-01	18.6999E-01
12	16.9064E-01	16.5406E-01	16.5972E-01	23.1832E-01	22.9497E-01	22.9303E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	26.1254E+04	48.2852E+04	67.3815E+04	25.5442E+04	46.3483E+04	63.6041E+04
4	29.0047E+04	41.8124E+04	59.5878E+04	22.9872E+04	38.7784E+04	50.1010E+04
6	22.1599E+04	34.3053E+04	47.1791E+04	20.8041E+04	33.0748E+04	40.7991E+04
8	20.5370E+04	32.7839E+04	40.8249E+04	18.9128E+04	28.5949E+04	35.9917E+04
10	19.0942E+04	29.4701E+04	35.8413E+04	17.2558E+04	24.9801E+04	28.8138E+04
12	17.8077E+04	26.6865E+04	31.8180E+04	15.7913E+04	22.0060E+04	24.7631E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	24.9079E+04	44.1579E+04	59.3215E+04	24.2358E+04	41.8960E+04	55.0327E+04
4	21.8339E+04	35.3604E+04	44.1185E+04	20.6269E+04	32.0199E+04	38.6185E+04
6	19.2500E+04	28.9872E+04	34.2374E+04	17.6602E+04	25.2034E+04	28.6436E+04
8	17.0523E+04	24.1644E+04	27.3808E+04	15.1992E+04	20.2688E+04	22.0974E+04
10	15.1634E+04	20.4139E+04	22.4095E+04	13.1367E+04	16.5769E+04	17.5609E+04
12	13.5245E+04	17.4302E+04	18.6817E+04	11.3930E+04	13.7434E+04	14.2776E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	23.5425E+04	39.6593E+04	50.9510E+04	22.1376E+04	35.4574E+04	43.6810E+04
4	19.6155E+04	28.9254E+04	33.8318E+04	17.0854E+04	23.6231E+04	26.2833E+04
6	16.1168E+04	21.8894E+04	24.1035E+04	13.3050E+04	16.6254E+04	17.5185E+04
8	13.4381E+04	17.0113E+04	18.0345E+04	10.4415E+04	12.1539E+04	12.4611E+04
10	11.2918E+04	13.5895E+04	13.9788E+04	8.2.4340E+03	91.3640E+03	92.4215E+03
12	9.5.1809E+03	10.8964E+04	11.1182E+04	6.5.3757E+03	70.0594E+03	70.4254E+03

RECTANGULAR SLAB SOURCE = 40 IN. X 120 IN.

AIR GAP = 6.0 IN.

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0594E-01	10.0529E-01	10.0483E-01	10.0780E-01	10.0704E-01	10.0651E-01
4	10.2091E-01	10.1775E-01	10.1583E-01	10.2792E-01	10.2625E-01	10.2224E-01
6	10.4234E-01	10.3517E-01	10.3121E-01	10.5732E-01	10.4927E-01	10.4519E-01
8	10.6886E-01	10.5665E-01	10.5032E-01	10.9449E-01	10.8134E-01	10.7528E-01
10	10.9967E-01	10.8170E-01	10.7286E-01	11.3870E-01	11.2014E-01	11.1229E-01
12	11.3426E-01	11.1002E-01	10.9863E-01	11.8958E-01	11.6557E-01	11.5622E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0911E-01	10.0893E-01	10.0059E-01	10.1072E-01	10.1149E-01	10.0144E-01
4	10.3639E-01	10.3355E-01	10.3167E-01	10.4866E-01	10.4480E-01	10.4521E-01
6	10.7893E-01	10.7158E-01	10.6794E-01	11.1060E-01	11.0385E-01	11.0048E-01
8	11.3491E-01	11.2250E-01	11.1733E-01	11.9435E-01	11.8245E-01	11.7825E-01
10	12.0365E-01	11.8627E-01	11.8004E-01	12.9970E-01	12.8325E-01	12.7845E-01
12	12.8511E-01	12.6319E-01	12.5637E-01	14.2752E-01	14.0742E-01	14.0267E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1313E-01	10.1498E-01	10.1523E-01	10.2139E-01	10.2524E-01	10.2591E-01
4	10.6569E-01	10.6456E-01	10.6314E-01	11.1539E-01	11.1442E-01	11.1320E-01
6	11.5353E-01	11.4493E-01	11.4400E-01	12.7552E-01	12.6817E-01	12.6571E-01
8	12.7457E-01	12.6275E-01	12.5913E-01	15.0326E-01	14.9105E-01	14.8658E-01
10	14.2990E-01	14.1404E-01	14.1041E-01	18.0726E-01	17.9235E-01	17.9038E-01
12	16.2244E-01	16.0385E-01	16.0063E-01	22.0103E-01	21.8514E-01	21.8374E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ. CM.) FOR 2:4:6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	24.2236E+04	44.9249E+04	62.0643E+04	23.7692E+04	43.3398E+04	59.0824E+04
4	22.3476E+04	39.1157E+04	52.1830E+04	21.5217E+04	36.5171E+04	47.3502E+04
6	20.7013E+04	34.5715E+04	44.4772E+04	19.5698E+04	31.2918E+04	38.7278E+04
8	19.2424E+04	30.8936E+04	38.6116E+04	17.8576E+04	27.1464E+04	32.3637E+04
10	17.9394E+04	27.9452E+04	33.9825E+04	16.3434E+04	23.7788E+04	27.4978E+04
12	16.7680E+04	25.2726E+04	31.2312E+04	14.9953E+04	20.9939E+04	23.6748E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	29.2584E+04	41.4838E+04	55.9510E+04	22.7877E+04	39.3249E+04	52.1201E+04
4	20.5530E+04	33.6934E+04	41.9327E+04	19.5144E+04	30.4813E+04	38.6754E+04
6	18.2254E+04	27.5947E+04	32.6809E+04	16.8172E+04	24.1274E+04	27.4468E+04
8	16.2145E+04	23.0864E+04	28.2115E+04	14.5407E+04	19.4637E+04	21.2489E+04
10	14.4672E+04	19.5534E+04	21.4988E+04	12.6113E+04	15.9899E+04	18.9227E+04
12	12.9403E+04	16.7307E+04	17.9533E+04	10.9647E+04	13.2589E+04	13.7824E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	22.1298E+04	37.5538E+04	49.4528E+04	20.9388E+04	33.7748E+04	41.7917E+04
4	16.4531E+04	27.6544E+04	32.4381E+04	14.3488E+04	22.7453E+04	25.3526E+04
6	15.4260E+04	21.8387E+04	23.2028E+04	12.8434E+04	16.8932E+04	18.9732E+04
8	12.9430E+04	16.4127E+04	17.4094E+04	10.1278E+04	11.8882E+04	12.8164E+04
10	10.8970E+04	13.0403E+04	13.5243E+04	8.2174E+04	8.9883E+04	9.6254E+04
12	9.2013E+04	10.5581E+04	10.7757E+04	6.7653E+04	6.9372E+04	6.8230E+04

RECTANGULAR SLAB SOURCE = 40 IN. X120 IN.

AIR GAP = 7.0 IN.

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0525E-01	10.0472E-01	10.0434E-01	10.0629E-01	10.0587E-01	10.0552E-01
4	10.1870E-01	10.1605E-01	10.1440E-01	10.2343E-01	10.2097E-01	10.1941E-01
6	10.3819E-01	10.3205E-01	10.2856E-01	10.4935E-01	10.4348E-01	10.4028E-01
8	10.6254E-01	10.5192E-01	10.4624E-01	10.8283E-01	10.7218E-01	10.6778E-01
10	10.9100E-01	10.7514E-01	10.6716E-01	11.2318E-01	11.0941E-01	11.0186E-01
12	11.2311E-01	11.0149E-01	10.9113E-01	11.7004E-01	11.5046E-01	11.4252E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0662E-01	10.0702E-01	10.0701E-01	10.0707E-01	10.0872E-01	10.0916E-01
4	10.2914E-01	10.2828E-01	10.2728E-01	10.3820E-01	10.3920E-01	10.3874E-01
6	10.6830E-01	10.6233E-01	10.5991E-01	10.9260E-01	10.9037E-01	10.8860E-01
8	11.1645E-01	11.0870E-01	11.0496E-01	11.6844E-01	11.6217E-01	11.5939E-01
10	11.7951E-01	11.6740E-01	11.6267E-01	12.6539E-01	12.5525E-01	12.5191E-01
12	12.5480E-01	12.3871E-01	12.3336E-01	13.8415E-01	13.7069E-01	13.6720E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0813E-01	10.1123E-01	10.1212E-01	10.1320E-01	10.1491E-01	10.2082E-01
4	10.5163E-01	10.5423E-01	10.5417E-01	10.9324E-01	10.9773E-01	10.9801E-01
6	11.2996E-01	11.2845E-01	11.2712E-01	12.3780E-01	12.3731E-01	12.3637E-01
8	12.3999E-01	12.3447E-01	12.3254E-01	14.4782E-01	14.4280E-01	14.4157E-01
10	13.8373E-01	13.7477E-01	13.7241E-01	17.3091E-01	17.2305E-01	17.2184E-01
12	15.6332E-01	15.5164E-01	15.4940E-01	20.9941E-01	20.8998E-01	20.8906E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CH.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	22.5196E+04	41.8974E+04	58.7777E+04	22.1599E+04	40.5853E+04	56.0732E+04
4	20.8527E+04	36.6653E+04	49.0747E+04	20.1754E+04	34.4216E+04	44.7899E+04
6	19.3770E+04	32.5294E+04	41.9961E+04	18.4254E+04	29.6269E+04	36.7862E+04
8	18.0620E+04	29.1574E+04	36.5884E+04	16.8729E+04	25.7872E+04	30.8321E+04
10	16.8802E+04	26.3469E+04	32.2622E+04	15.4879E+04	22.6472E+04	26.2542E+04
12	15.8126E+04	23.9646E+04	28.7582E+04	14.2462E+04	20.6377E+04	22.6451E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	21.7452E+04	39.0010E+04	52.8008E+04	21.2895E+04	37.2935E+04	49.3910E+04
4	19.3553E+04	31.7319E+04	39.8629E+04	18.4568E+04	29.0054E+04	35.1985E+04
6	17.2558E+04	26.2695E+04	31.1966E+04	16.0040E+04	23.0651E+04	26.3239E+04
8	15.4158E+04	22.0328E+04	25.0913E+04	13.9005E+04	18.6791E+04	20.4217E+04
10	13.7998E+04	18.7269E+04	20.6234E+04	12.0975E+04	15.3563E+04	16.2982E+04
12	12.3766E+04	16.0570E+04	17.2514E+04	10.5486E+04	12.7837E+04	13.2968E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	20.8041E+04	35.5515E+04	46.0551E+04	19.7778E+04	32.1517E+04	39.9441E+04
4	17.4230E+04	26.4159E+04	31.0611E+04	15.6545E+04	21.8641E+04	24.4169E+04
6	14.7474E+04	20.2003E+04	22.3131E+04	12.3739E+04	15.3547E+04	16.4168E+04
8	12.6324E+04	15.8138E+04	16.7897E+04	98.0502E+03	11.4546E+04	11.7501E+04
10	10.5936E+04	12.6164E+04	13.0716E+04	77.9242E+03	86.5632E+03	87.5672E+03
12	88.9281E+03	10.2201E+04	10.4339E+04	62.0955E+03	66.6243E+03	66.9800E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 40 IN. X240 IN. AIR GAP = 0.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	98.7719E-02	99.5784E-02	99.8446E-02	10.0542E-01	10.0753E-01	10.0758E-01
4	99.4486E-02	10.0490E-01	10.0690E-01	10.3605E-01	10.3278E-01	10.2984E-01
6	10.1985E-01	10.2495E-01	10.2412E-01	10.8319E-01	10.7035E-01	10.6368E-01
8	10.5473E-01	10.5175E-01	10.4732E-01	11.4039E-01	11.1732E-01	11.0716E-01
10	10.9557E-01	10.8338E-01	10.7508E-01	12.0575E-01	11.7265E-01	11.5950E-01
12	11.4089E-01	11.1892E-01	11.0672E-01	12.7816E-01	12.3598E-01	12.2043E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2432E-01	10.2667E-01	10.1831E-01	10.4473E-01	10.3549E-01	10.3088E-01
4	10.8139E-01	10.6602E-01	10.5897E-01	11.3173E-01	11.0561E-01	10.9523E-01
6	11.5671E-01	11.2862E-01	11.1771E-01	12.4267E-01	12.0176E-01	11.8808E-01
8	12.4610E-01	12.0684E-01	11.9340E-01	13.7577E-01	13.2384E-01	13.0913E-01
10	13.4905E-01	13.0062E-01	12.8586E-01	15.3257E-01	14.7317E-01	14.5896E-01
12	14.6620E-01	14.1044E-01	13.9533E-01	17.1560E-01	16.5165E-01	16.3884E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.6673E-01	10.5205E-01	10.4538E-01	11.1545E-01	10.9047E-01	10.8029E-01
4	11.8759E-01	11.5198E-01	11.3909E-01	13.1706E-01	12.6615E-01	12.5050E-01
6	13.4231E-01	12.9099E-01	12.7591E-01	15.8706E-01	15.2168E-01	15.0691E-01
8	15.3225E-01	14.7108E-01	14.5664E-01	19.3762E-01	18.6707E-01	18.5576E-01
10	17.6198E-01	16.9381E-01	16.8344E-01	23.8595E-01	23.1647E-01	23.0751E-01
12	20.3736E-01	19.6986E-01	19.5996E-01	29.5360E-01	28.8886E-01	28.8394E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES.

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	38.0599E+04	69.9960E+04	96.9374E+04	35.6863E+04	63.6996E+04	85.2878E+04
4	34.9468E+04	59.8485E+04	78.6428E+04	31.5214E+04	51.9709E+04	66.1962E+04
6	31.9361E+04	52.0139E+04	65.9549E+04	28.0133E+04	43.5253E+04	53.0112E+04
8	29.2700E+04	45.8520E+04	56.6079E+04	25.0770E+04	37.1143E+04	43.6490E+04
10	26.9414E+04	40.8824E+04	49.4172E+04	22.5882E+04	32.0742E+04	36.6771E+04
12	24.9017E+04	36.7874E+04	43.7040E+04	20.4495E+04	28.0113E+04	31.3074E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	33.5535E+04	58.1200E+04	76.9118E+04	31.6300E+04	53.2200E+04	68.8309E+04
4	28.5099E+04	45.0956E+04	55.5598E+04	25.8516E+04	39.2718E+04	48.8311E+04
6	24.5665E+04	36.2619E+04	42.4126E+04	21.5900E+04	30.3254E+04	34.2366E+04
8	21.4029E+04	29.8272E+04	33.5421E+04	18.2758E+04	24.0851E+04	28.1426E+04
10	18.7918E+04	24.9425E+04	27.2263E+04	15.6109E+04	19.5220E+04	20.6201E+04
12	16.5948E+04	21.1285E+04	22.5507E+04	13.4202E+04	16.0750E+04	16.6672E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	29.8873E+04	48.9176E+04	61.6992E+04	26.8484E+04	41.7700E+04	50.8041E+04
4	23.5253E+04	34.3743E+04	39.8847E+04	19.6580E+04	26.7825E+04	29.6544E+04
6	19.0503E+04	25.5297E+04	27.9917E+04	14.9215E+04	18.5188E+04	19.6724E+04
8	15.6385E+04	19.6156E+04	20.7393E+04	11.5438E+04	13.3913E+04	13.7194E+04
10	12.9816E+04	15.4435E+04	15.6627E+04	90.3415E+03	98.9577E+03	10.1887E+04
12	10.8510E+04	12.3861E+04	12.6280E+04	71.2451E+03	76.2815E+03	76.6732E+03

RECTANGULAR SLAB SOURCE = 40 IN. X240 IN. AIR GAP = 1.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0340E-01	10.0478E-01	10.0487E-01	10.1706E-01	10.1430E-01	10.1253E-01
4	10.2231E-01	10.2092E-01	10.1888E-01	10.5663E-01	10.4454E-01	10.3891E-01
6	10.5267E-01	10.4424E-01	10.3903E-01	11.0657E-01	10.8470E-01	10.7520E-01
8	10.8937E-01	10.7273E-01	10.6391E-01	11.6540E-01	11.3329E-01	11.2029E-01
10	11.3100E-01	11.0535E-01	10.9277E-01	12.3158E-01	11.8980E-01	11.7409E-01
12	11.7669E-01	11.4154E-01	11.2519E-01	13.0489E-01	12.5412E-01	12.3620E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3205E-01	10.2521E-01	10.2170E-01	10.4875E-01	10.3783E-01	10.3265E-01
4	10.9394E-01	10.7367E-01	10.6507E-01	11.3753E-01	11.0923E-01	10.9821E-01
6	11.7124E-01	11.3800E-01	11.2555E-01	12.4896E-01	12.0599E-01	11.9176E-01
8	12.6174E-01	12.1745E-01	12.0261E-01	13.8225E-01	13.2846E-01	13.1926E-01
10	13.6554E-01	13.1227E-01	12.9627E-01	15.3922E-01	14.7610E-01	14.6390E-01
12	14.8346E-01	14.2308E-01	14.0688E-01	17.2246E-01	16.5691E-01	16.4377E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.6725E-01	10.5224E-01	10.4590E-01	11.0978E-01	10.8563E-01	10.7710E-01
4	11.8735E-01	11.5167E-01	11.3881E-01	13.0643E-01	12.5829E-01	12.4361E-01
6	13.4092E-01	12.8987E-01	12.7486E-01	15.7161E-01	15.0932E-01	14.9176E-01
8	15.2970E-01	14.6899E-01	14.5463E-01	19.1408E-01	18.4949E-01	18.3862E-01
10	17.5829E-01	16.9265E-01	16.8033E-01	23.5961E-01	22.8276E-01	22.6590E-01
12	20.3256E-01	19.6592E-01	19.5593E-01	29.2020E-01	28.9791E-01	28.9316E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SG.CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	33.8640E+04	45.6853E+04	90.9693E+04	34.8923E+04	60.4482E+04	61.1661E+04
4	32.6290E+04	56.0623E+04	73.9970E+04	29.9198E+04	49.4336E+04	63.0822E+04
6	29.8194E+04	48.8660E+04	62.1896E+04	28.5962E+04	41.4866E+04	60.6272E+04
8	27.3934E+04	43.1940E+04	53.3499E+04	23.8457E+04	37.4277E+04	61.7624E+04
10	25.2844E+04	38.6276E+04	46.8823E+04	21.5170E+04	33.6728E+04	59.1131E+04
12	23.4939E+04	34.8522E+04	41.5657E+04	19.5146E+04	30.8329E+04	56.0487E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	32.3392E+04	59.9728E+04	74.0895E+04	30.7291E+04	51.7120E+04	66.9903E+04
4	27.4849E+04	43.4196E+04	53.3588E+04	29.1872E+04	38.7127E+04	49.1492E+04
6	23.6376E+04	34.9488E+04	46.9238E+04	26.9827E+04	29.4988E+04	39.3174E+04
8	20.6117E+04	28.7791E+04	32.1926E+04	17.7768E+04	23.4427E+04	29.4951E+04
10	18.1187E+04	24.0918E+04	26.3218E+04	15.1923E+04	19.3117E+04	26.0874E+04
12	16.0146E+04	20.6268E+04	21.8178E+04	13.0679E+04	16.6420E+04	18.2419E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	29.2196E+04	47.8979E+04	60.5830E+04	26.4817E+04	41.7632E+04	50.1804E+04
4	23.8224E+04	33.6617E+04	39.3621E+04	24.6904E+04	26.4882E+04	39.3168E+04
6	19.6186E+04	29.8121E+04	29.4272E+04	19.7608E+04	19.3180E+04	19.7681E+04
8	15.3242E+04	20.2251E+04	20.1704E+04	11.4227E+04	13.7407E+04	13.6724E+04
10	12.7251E+04	15.1482E+04	15.4981E+04	9.3902E+03	10.6974E+03	10.8812E+03
12	10.6387E+04	12.1450E+04	12.3029E+04	7.9346E+03	7.9.4190E+03	7.9.9974E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE - 40 IN. X240 IN. AIR GAP = 2.0 IN.  $\epsilon = 0.00 \quad \gamma = 0$

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0779E-01	10.0787E-01	10.0842E-01	10.1792E-01	10.1822E-01	10.1234E-01
4	1.2291E-01	10.2879E-01	10.2877E-01	10.5436E-01	10.4295E-01	10.3797E-01
6	12.5798E-01	10.1638E-01	10.4834E-01	11.0164E-01	10.8866E-01	10.7182E-01
8	10.4227E-01	10.7842E-01	10.6490E-01	11.5093E-01	11.2957E-01	11.2428E-01
10	11.1198E-01	11.0636E-01	10.7198E-01	12.1932E-01	11.7706E-01	11.6598E-01
12	11.7467E-01	11.3861E-01	11.2219E-01	12.8872E-01	12.4693E-01	12.2596E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2629E-01	10.2252E-01	10.1972E-01	10.6052E-01	10.5298E-01	10.2929E-01
4	10.8662E-01	10.5698E-01	10.5944E-01	11.1999E-01	10.8761E-01	10.8761E-01
6	11.5598E-01	11.2691E-01	11.1949E-01	12.2178E-01	11.8672E-01	11.7657E-01
8	12.4077E-01	12.0197E-01	11.8822E-01	13.0797E-01	12.6492E-01	12.5827E-01
10	13.2679E-01	12.7166E-01	12.7664E-01	14.0979E-01	13.4787E-01	13.4787E-01
12	14.0996E-01	13.4825E-01	13.0143E-01	15.0947E-01	14.1998E-01	14.0529E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.9649E-01	10.9379E-01	10.3636E-01	10.8797E-01	10.7198E-01	10.6492E-01
4	11.6197E-01	11.3908E-01	11.2293E-01	12.5208E-01	12.2958E-01	12.1655E-01
6	12.0247E-01	12.0208E-01	12.4367E-01	13.0913E-01	12.9669E-01	12.8494E-01
8	14.7966E-01	14.2069E-01	14.1666E-01	14.3827E-01	14.2632E-01	14.0798E-01
10	16.9596E-01	16.3047E-01	16.2379E-01	15.6952E-01	15.4966E-01	15.3913E-01
12	19.5922E-01	18.9738E-01	18.8876E-01	17.7773E-01	17.4698E-01	17.2816E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/50-CM.  $\epsilon$ ) FOR 2.0 IN. PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	33.3751E+04	61.1742E+04	64.9254E+04	31.9264E+04	57.6662E+04	75.5544E+04
4	30.1764E+04	52.4537E+04	60.4198E+04	28.1627E+04	46.7089E+04	59.8993E+04
6	27.6466E+04	45.8970E+04	58.6034E+04	25.7981E+04	39.4030E+04	48.2433E+04
8	25.6644E+04	40.7362E+04	56.7462E+04	22.6718E+04	33.7070E+04	39.9110E+04
10	21.7612E+04	36.9482E+04	54.9294E+04	20.4662E+04	29.3098E+04	31.6672E+04
12	22.8032E+04	33.0638E+04	53.1038E+04	18.6894E+04	27.4998E+04	28.8762E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	50.5799E+04	51.1662E+04	70.5751E+04	25.2707E+04	44.9898E+04	64.2754E+04
4	28.6818E+04	41.4467E+04	51.2797E+04	24.3884E+04	34.7062E+04	44.6097E+04
6	22.6887E+04	33.8266E+04	39.2297E+04	20.2734E+04	28.9188E+04	38.2794E+04
8	19.7994E+04	27.6727E+04	31.1973E+04	17.1098E+04	22.7127E+04	28.6888E+04
10	17.4878E+04	23.2882E+04	25.2866E+04	14.7188E+04	18.4698E+04	24.7882E+04
12	15.4152E+04	19.7888E+04	21.3078E+04	12.6701E+04	15.7192E+04	19.7974E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	30.7513E+04	46.1209E+04	50.1367E+04	25.6818E+04	40.1637E+04	45.9662E+04
4	22.7162E+04	32.6264E+04	38.9438E+04	19.6717E+04	29.6697E+04	30.1795E+04
6	18.0222E+04	26.1638E+04	30.7538E+04	14.6673E+04	17.9998E+04	20.5629E+04
8	14.0792E+04	20.7084E+04	27.0278E+04	11.2613E+04	15.0499E+04	17.3623E+04
10	12.0438E+04	16.7842E+04	21.2912E+04	9.0709E+04	12.6472E+04	14.6442E+04
12	10.3095E+04	13.8897E+04	17.1998E+04	67.6698E+03	74.6998E+03	74.7947E+03

TABLE 1

POPULATION OF THE UNITED STATES BY SEX, RACE, AND HIGHEST GRADE OF SCHOOL ATTAINED, 1960

SEX	RACE	HIGHEST GRADE OF SCHOOL ATTAINED	MALES		FEMALES	
			NUMBER	% OF TOTAL	NUMBER	% OF TOTAL
Total	White	Less than high school	10,000,000	15.0	10,000,000	15.0
		High school	40,000,000	60.0	40,000,000	60.0
		Some college	10,000,000	15.0	10,000,000	15.0
		Bachelor's degree	5,000,000	7.5	5,000,000	7.5
		Master's degree	1,000,000	1.5	1,000,000	1.5
		Doctorate degree	500,000	0.75	500,000	0.75
	Negro	Less than high school	15,000,000	22.5	15,000,000	22.5
		High school	10,000,000	15.0	10,000,000	15.0
		Some college	2,000,000	3.0	2,000,000	3.0
		Bachelor's degree	1,000,000	1.5	1,000,000	1.5
		Master's degree	500,000	0.75	500,000	0.75
		Doctorate degree	250,000	0.375	250,000	0.375

SEX	RACE	HIGHEST GRADE OF SCHOOL ATTAINED	MALES		FEMALES	
			NUMBER	% OF TOTAL	NUMBER	% OF TOTAL
Total	White	Less than high school	10,000,000	15.0	10,000,000	15.0
		High school	40,000,000	60.0	40,000,000	60.0
		Some college	10,000,000	15.0	10,000,000	15.0
		Bachelor's degree	5,000,000	7.5	5,000,000	7.5
		Master's degree	1,000,000	1.5	1,000,000	1.5
		Doctorate degree	500,000	0.75	500,000	0.75
	Negro	Less than high school	15,000,000	22.5	15,000,000	22.5
		High school	10,000,000	15.0	10,000,000	15.0
		Some college	2,000,000	3.0	2,000,000	3.0
		Bachelor's degree	1,000,000	1.5	1,000,000	1.5
		Master's degree	500,000	0.75	500,000	0.75
		Doctorate degree	250,000	0.375	250,000	0.375



RECTANGULAR SLAB SOURCE = 40 IN. X240 IN. AIR GAP = 4.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.8719E-01	10.8019E-01	10.9537E-01	10.1222E-01	10.1030E-01	10.0919E-01
4	10.2440E-01	10.2019E-01	10.1773E-01	10.4014E-01	10.3206E-01	10.2914E-01
6	10.6807E-01	10.3422E-01	10.3429E-01	10.7802E-01	10.6303E-01	10.5731E-01
8	10.7701E-01	10.6210E-01	10.5436E-01	11.2373E-01	11.0722E-01	10.9300E-01
10	11.3035E-01	10.8895E-01	10.7766E-01	11.7667E-01	11.6767E-01	11.3623E-01
12	11.6762E-01	11.1770E-01	11.0365E-01	12.3593E-01	12.0095E-01	11.8672E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1701E-01	10.1971E-01	10.1366E-01	10.2437E-01	10.2116E-01	10.1926E-01
4	10.5919E-01	10.4966E-01	10.4488E-01	10.8272E-01	10.7094E-01	10.6559E-01
6	11.1620E-01	10.9816E-01	10.9103E-01	11.6922E-01	11.4421E-01	11.3653E-01
8	11.8678E-01	11.8107E-01	11.8178E-01	12.6979E-01	12.6101E-01	12.3220E-01
10	12.7020E-01	12.3769E-01	12.2721E-01	13.9587E-01	13.6216E-01	13.3824E-01
12	13.6694E-01	13.2090E-01	13.1761E-01	15.4890E-01	15.0900E-01	15.0077E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3216E-01	10.2035E-01	10.2669E-01	10.9186E-01	10.4666E-01	10.4374E-01
4	11.1144E-01	10.9769E-01	10.9167E-01	11.8350E-01	11.6746E-01	11.6109E-01
6	12.2626E-01	12.0239E-01	11.9472E-01	13.0731E-01	13.0432E-01	13.0242E-01
8	13.7518E-01	13.4497E-01	13.3817E-01	15.6209E-01	15.2872E-01	15.2309E-01
10	15.6801E-01	15.2308E-01	15.1704E-01	18.2146E-01	17.8660E-01	17.8236E-01
12	17.0705E-01	17.4099E-01	17.4314E-01	20.8214E-01	20.4926E-01	20.4559E-01

MINIMUM SPECIFIC DOSE RATE (RAD./MIN. PER CURIE/50.CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	20.7367E+04	33.1412E+04	74.2335E+04	27.6446E+04	38.2037E+04	60.7948E+04
4	20.6129E+04	46.1186E+04	61.3120E+04	24.9017E+04	41.8129E+04	52.9003E+04
6	23.4845E+04	45.7253E+04	52.4546E+04	22.4892E+04	35.9437E+04	43.7946E+04
8	22.6464E+04	36.4097E+04	45.6955E+04	20.3354E+04	30.6893E+04	38.9342E+04
10	21.0923E+04	32.6519E+04	40.3572E+04	18.3111E+04	26.7420E+04	30.8940E+04
12	19.7047E+04	29.9837E+04	36.0410E+04	16.9112E+04	23.5617E+04	26.5542E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	26.9414E+04	47.4099E+04	62.3998E+04	26.0405E+04	44.6302E+04	58.3361E+04
4	23.3747E+04	37.5995E+04	46.7522E+04	21.8821E+04	33.7382E+04	40.5586E+04
6	23.4684E+04	30.6538E+04	36.1208E+04	18.5897E+04	26.3077E+04	29.9410E+04
8	18.0421E+04	23.4671E+04	28.8124E+04	15.9163E+04	21.1885E+04	23.0287E+04
10	15.9900E+04	21.4589E+04	23.5371E+04	13.7890E+04	17.2697E+04	18.2626E+04
12	14.2233E+04	18.2883E+04	19.5942E+04	11.8541E+04	14.2723E+04	14.8210E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	23.1501E+04	41.4885E+04	53.8837E+04	23.4209E+04	37.1738E+04	49.6780E+04
4	20.4495E+04	30.2744E+04	35.3146E+04	17.8926E+04	24.4931E+04	27.2040E+04
6	16.8384E+04	22.7745E+04	25.0418E+04	15.7328E+04	17.1389E+04	19.0475E+04
8	13.9884E+04	17.6382E+04	18.6764E+04	10.7417E+04	12.4866E+04	12.7971E+04
10	11.0934E+04	13.9627E+04	14.4456E+04	8.5419E+03	9.6270E+03	8.6973E+03
12	98.2491E+03	11.2431E+04	11.4491E+04	66.9070E+03	71.6652E+03	72.0365E+03

RECTANGULAR SLAB SOURCE = 40 IN. X240 IN. AIR GAP = 9.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0626E-01	10.0551E-01	10.0498E-01	10.1004E-01	10.0872E-01	10.0786E-01
4	10.2173E-01	10.1816E-01	10.1602E-01	10.3416E-01	10.2866E-01	10.2564E-01
6	10.4351E-01	10.3552E-01	10.3114E-01	10.6786E-01	10.5655E-01	10.5115E-01
8	10.7010E-01	10.566DE-01	10.4961E-01	11.0930E-01	10.9165E-01	10.8388E-01
10	11.0065E-01	10.8089E-01	10.7105E-01	11.5768E-01	11.3953E-01	11.2964E-01
12	11.3460E-01	11.0793E-01	10.9526E-01	12.1264E-01	11.8209E-01	11.7099E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1407E-01	10.1251E-01	10.1147E-01	10.1691E-01	10.1724E-01	10.1607E-01
4	10.4941E-01	10.4260E-01	10.3916E-01	10.4890E-01	10.4699E-01	10.5719E-01
6	11.0023E-01	10.8676E-01	10.8097E-01	11.4279E-01	11.2749E-01	11.2160E-01
8	11.6442E-01	11.4429E-01	11.3669E-01	12.3852E-01	12.1656E-01	12.0956E-01
10	12.4144E-01	12.1520E-01	12.0644E-01	13.5652E-01	13.2901E-01	13.2175E-01
12	13.3140E-01	12.9981E-01	12.9069E-01	14.9744E-01	14.6617E-01	14.5927E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2401E-01	10.2307E-01	10.2177E-01	10.4028E-01	10.3029E-01	10.3672E-01
4	10.9319E-01	10.8414E-01	10.8007E-01	11.5709E-01	11.4582E-01	11.4146E-01
6	11.9651E-01	11.7958E-01	11.7380E-01	13.4066E-01	13.2111E-01	13.1603E-01
8	13.3354E-01	13.1027E-01	13.0477E-01	15.9476E-01	15.7028E-01	15.6593E-01
10	15.0618E-01	14.7838E-01	14.7287E-01	19.2996E-01	19.0353E-01	19.0033E-01
12	17.1403E-01	16.8796E-01	16.8310E-01	23.6147E-01	23.3523E-01	23.3308E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	26.7768E+04	49.6963E+04	69.6211E+04	26.0413E+04	47.2551E+04	64.8715E+04
4	24.7165E+04	43.3775E+04	58.0654E+04	23.4333E+04	39.5675E+04	51.1837E+04
6	22.9195E+04	38.4613E+04	49.7750E+04	21.2138E+04	33.7884E+04	41.7555E+04
8	21.3348E+04	34.5075E+04	43.4747E+04	19.2951E+04	29.2528E+04	34.8702E+04
10	19.9247E+04	31.2326E+04	38.4993E+04	17.6164E+04	25.5935E+04	29.6195E+04
12	18.6610E+04	28.4709E+04	34.4582E+04	16.1342E+04	22.5818E+04	25.5053E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	25.2840E+04	44.7468E+04	60.0580E+04	24.5166E+04	42.2375E+04	55.4832E+04
4	22.1071E+04	35.7618E+04	44.6052E+04	20.7920E+04	32.2316E+04	36.8545E+04
6	19.4628E+04	29.2930E+04	34.6036E+04	17.7689E+04	23.3397E+04	28.7939E+04
8	17.2265E+04	24.4138E+04	27.6737E+04	15.2769E+04	20.3654E+04	22.2031E+04
10	15.3111E+04	20.6218E+04	22.6525E+04	13.1957E+04	16.6498E+04	17.6400E+04
12	13.6547E+04	17.6092E+04	18.8879E+04	11.4398E+04	13.8010E+04	14.3394E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	23.7542E+04	39.9259E+04	51.2411E+04	22.2502E+04	35.5691E+04	43.8162E+04
4	19.5146E+04	29.0416E+04	33.9546E+04	17.1208E+04	23.6806E+04	28.3212E+04
6	16.1718E+04	21.9525E+04	24.1699E+04	13.3189E+04	16.0400E+04	17.5336E+04
8	13.4925E+04	17.0559E+04	18.0750E+04	10.4482E+04	12.1828E+04	12.4382E+04
10	11.3152E+04	13.5325E+04	14.0065E+04	82.4705E+03	91.4062E+03	92.4062E+03
12	95.2703E+03	10.9158E+04	11.1380E+04	65.3978E+03	70.0827E+03	70.4486E+03

RECTANGULAR SLAB SOURCE = 40 IN. X240 IN. AIR GAP = 6.0 IN. X = 0.60 Y = 0

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0552E-01	10.0490E-01	10.0446E-01	10.0829E-01	10.0738E-01	10.0677E-01
4	10.1937E-01	10.1636E-01	10.1452E-01	10.2917E-01	10.2501E-01	10.2267E-01
6	10.3913E-01	10.3225E-01	10.2839E-01	10.5922E-01	10.5033E-01	10.4588E-01
8	10.6347E-01	10.5166E-01	10.4540E-01	10.9688E-01	10.8251E-01	10.7593E-01
10	10.9161E-01	10.7407E-01	10.6521E-01	11.4134E-01	11.2120E-01	11.1266E-01
12	11.2302E-01	10.9917E-01	10.8764E-01	11.9224E-01	11.6628E-01	11.5607E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1113E-01	10.1034E-01	10.0970E-01	10.1464E-01	10.1413E-01	10.1352E-01
4	10.4144E-01	10.3692E-01	10.3440E-01	10.5768E-01	10.5289E-01	10.5028E-01
6	10.8684E-01	10.7699E-01	10.7248E-01	11.2411E-01	11.1349E-01	11.0508E-01
8	11.4544E-01	11.2994E-01	11.2379E-01	12.1205E-01	11.9579E-01	11.9032E-01
10	12.1665E-01	11.9376E-01	11.8850E-01	13.2157E-01	13.0056E-01	12.9473E-01
12	13.0049E-01	12.7476E-01	12.6690E-01	14.5373E-01	14.2903E-01	14.2333E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1910E-01	10.1891E-01	10.1834E-01	10.3136E-01	10.3174E-01	10.3119E-01
4	10.7837E-01	10.7328E-01	10.7061E-01	11.3418E-01	11.2827E-01	11.2553E-01
6	11.7191E-01	11.6057E-01	11.5638E-01	13.0202E-01	12.8938E-01	12.8563E-01
8	12.9844E-01	12.8167E-01	12.7696E-01	15.3815E-01	15.2100E-01	15.1779E-01
10	14.5955E-01	14.3882E-01	14.3433E-01	18.9207E-01	18.7325E-01	18.7031E-01
12	16.5848E-01	16.3523E-01	16.3137E-01	22.5789E-01	22.3817E-01	22.3650E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	25.0192E+04	46.5893E+04	65.4431E+04	24.4045E+04	44.4823E+04	61.2608E+04
4	23.1843E+04	40.8826E+04	54.9146E+04	22.0833E+04	37.4875E+04	48.6575E+04
6	21.5702E+04	35.3999E+04	47.2738E+04	20.0778E+04	32.1512E+04	39.6677E+04
8	20.1367E+04	32.7579E+04	41.4222E+04	18.3249E+04	27.9256E+04	33.3828E+04
10	18.8538E+04	29.7277E+04	36.7765E+04	16.7785E+04	24.4950E+04	28.4191E+04
12	17.6983E+04	27.1606E+04	32.9860E+04	15.4041E+04	21.6580E+04	24.5151E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	23.7612E+04	42.2723E+04	56.9336E+04	23.1029E+04	40.0777E+04	52.7734E+04
4	20.9211E+04	34.0281E+04	42.5733E+04	19.7524E+04	30.7852E+04	37.2117E+04
6	18.5111E+04	27.9971E+04	33.1549E+04	16.9748E+04	24.3125E+04	27.6788E+04
8	16.4462E+04	23.4073E+04	26.5848E+04	14.6532E+04	19.6007E+04	21.3970E+04
10	14.6613E+04	19.8192E+04	21.8040E+04	12.6897E+04	16.0620E+04	17.0321E+04
12	13.1070E+04	16.9565E+04	18.2091E+04	11.0329E+04	13.3383E+04	13.8667E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	22.4391E+04	37.9511E+04	48.8844E+04	21.1160E+04	33.9867E+04	42.0151E+04
4	18.6054E+04	27.8327E+04	32.4181E+04	16.4304E+04	22.8109E+04	25.4191E+04
6	15.5120E+04	21.1367E+04	23.3044E+04	12.8687E+04	16.1217E+04	16.9998E+04
8	12.9968E+04	16.4733E+04	17.4723E+04	10.1400E+04	11.8229E+04	12.1234E+04
10	10.9333E+04	13.1010E+04	13.5663E+04	8.02840E+03	8.9655E+03	9.01937E+03
12	9.2729E+03	10.3870E+03	10.8055E+03	6.38051E+03	6.84133E+03	6.87744E+03

RECTANGULAR SLAB SOURCE = 40 IN. X24C IN.

AIR GAP = 7.0 IN.

X = 0.00 Y = 0

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0488E-01	10.0438E-01	10.0401E-01	10.0487E-01	10.0429E-01	10.0396E-01
4	10.1733E-01	10.1481E-01	10.1321E-01	10.2502E-01	10.2199E-01	10.2016E-01
6	10.3534E-01	10.2940E-01	10.2598E-01	10.5191E-01	10.4500E-01	10.4139E-01
8	10.5770E-01	10.4732E-01	10.4170E-01	10.7420E-01	10.7439E-01	10.6904E-01
10	10.8345E-01	10.6810E-01	10.6007E-01	11.2714E-01	11.1044E-01	11.0310E-01
12	11.1282E-01	10.9143E-01	10.8091E-01	11.7437E-01	11.5243E-01	11.4353E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0878E-01	10.0657E-01	10.0824E-01	10.1174E-01	10.1161E-01	10.1144E-01
4	10.3486E-01	10.3216E-01	10.3041E-01	10.4842E-01	10.4615E-01	10.4432E-01
6	10.7553E-01	10.4868E-01	10.4525E-01	11.0839E-01	11.0165E-01	10.9850E-01
8	11.2917E-01	11.1759E-01	11.1270E-01	11.8947E-01	11.7882E-01	11.7387E-01
10	11.9519E-01	11.7890E-01	11.7295E-01	12.9162E-01	12.7889E-01	12.7141E-01
12	12.7353E-01	12.5289E-01	12.4631E-01	14.1577E-01	13.9673E-01	13.9219E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1454E-01	10.1555E-01	10.1555E-01	10.2427E-01	10.2447E-01	10.2473E-01
4	10.6421E-01	10.4428E-01	10.6274E-01	11.1561E-01	11.1388E-01	11.1242E-01
6	11.5127E-01	11.4455E-01	11.4171E-01	12.6970E-01	12.6278E-01	12.6051E-01
8	12.6858E-01	12.5729E-01	12.5385E-01	14.9052E-01	14.7914E-01	14.7492E-01
10	14.1949E-01	14.0442E-01	14.0120E-01	17.8536E-01	17.7210E-01	17.7052E-01
12	16.0694E-01	15.8962E-01	15.8658E-01	21.6857E-01	21.5445E-01	21.5319E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CH.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	23.4388E+04	43.7799E+04	61.6496E+04	22.9195E+04	41.9462E+04	57.9413E+04
4	21.7948E+04	38.6073E+04	52.0279E+04	20.8443E+04	35.5636E+04	48.3117E+04
6	20.3412E+04	34.5030E+04	44.9448E+04	19.0267E+04	30.6267E+04	38.0751E+04
8	19.0482E+04	31.3447E+04	39.3238E+04	17.4219E+04	28.6839E+04	31.9879E+04
10	17.8697E+04	28.3352E+04	35.1740E+04	15.9952E+04	25.4435E+04	27.2898E+04
12	16.8105E+04	25.9445E+04	31.6142E+04	14.7193E+04	23.7883E+04	23.5816E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	22.3674E+04	39.9838E+04	54.0270E+04	21.7957E+04	38.0113E+04	50.2227E+04
4	19.8178E+04	32.4021E+04	40.5611E+04	18.7719E+04	29.4700E+04	35.4438E+04
6	17.6164E+04	26.7722E+04	31.7829E+04	16.2158E+04	23.5280E+04	28.8866E+04
8	15.7078E+04	22.4511E+04	25.3491E+04	14.0520E+04	18.8619E+04	20.6178E+04
10	14.0432E+04	19.0539E+04	20.9943E+04	12.2112E+04	15.4918E+04	18.4423E+04
12	12.5843E+04	16.3325E+04	17.5399E+04	10.6372E+04	12.8882E+04	13.4469E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	21.2138E+04	36.0842E+04	48.4402E+04	20.0433E+04	32.4580E+04	40.2614E+04
4	17.7356E+04	28.6457E+04	31.3244E+04	15.7497E+04	21.9658E+04	24.3200E+04
6	16.8704E+04	20.3400E+04	22.4585E+04	12.4147E+04	15.5974E+04	18.4599E+04
8	12.3100E+04	15.9004E+04	16.8794E+04	98.2509E+03	11.4759E+04	11.7713E+04
10	10.3560E+04	12.8793E+04	13.1313E+04	78.0341E+03	86.6589E+03	87.6815E+03
12	89.3010E+03	10.2611E+04	10.4739E+04	62.1808E+03	63.6917E+03	67.0416E+03

CONSTANT SOURCE

REQUIREMENTS FOR EPI-FAST INADDITIONS IN TARGETS OF VARIOUS GEOMETRIES  
 AIR GAP = 0.9 IN.

TARGET INCHES	2		4		6		8	
	NUMBER OF PASSES	3 G/C	NUMBER OF PASSES	3 G/C	NUMBER OF PASSES	3 G/C	NUMBER OF PASSES	3 G/C
2	18,731	10,432	18,731	10,432	18,731	10,432	18,731	10,432
4	18,731	10,432	18,731	10,432	18,731	10,432	18,731	10,432
6	18,731	10,432	18,731	10,432	18,731	10,432	18,731	10,432
8	18,731	10,432	18,731	10,432	18,731	10,432	18,731	10,432
10	18,731	10,432	18,731	10,432	18,731	10,432	18,731	10,432
12	18,731	10,432	18,731	10,432	18,731	10,432	18,731	10,432
2	18,731	10,432	18,731	10,432	18,731	10,432	18,731	10,432
4	18,731	10,432	18,731	10,432	18,731	10,432	18,731	10,432
6	18,731	10,432	18,731	10,432	18,731	10,432	18,731	10,432
8	18,731	10,432	18,731	10,432	18,731	10,432	18,731	10,432
10	18,731	10,432	18,731	10,432	18,731	10,432	18,731	10,432
12	18,731	10,432	18,731	10,432	18,731	10,432	18,731	10,432

MINIMUM SPECIFIC COST RATE (G/M<sup>2</sup>/HOUR) FOR EPI-FAST INADDITIONS IN TARGETS OF VARIOUS GEOMETRIES

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE - 60 IN. X 90 IN.

AIR GAP = 1.0 FT.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS CROSSSECTIONS

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	99.7520E-02	10.0044E-01	16.0143E-01	10.1250E-01	10.1203E-01	10.0901E-01
4	10.0540E-01	10.0943E-01	10.0977E-01	10.0437E-01	10.0507E-01	10.0205E-01
6	10.0491E-01	10.0237E-01	10.0237E-01	10.0134E-01	10.0170E-01	10.0070E-01
8	10.0112E-01	10.0451E-01	10.0250E-01	11.0179E-01	11.0040E-01	10.0026E-01
10	10.0208E-01	10.0200E-01	10.0457E-01	11.0574E-01	11.0244E-01	11.0025E-01
12	10.0036E-01	11.0124E-01	10.0231E-01	12.0464E-01	12.0010E-01	11.0044E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2202E-01	10.2292E-01	10.1154E-01	10.0570E-01	10.0210E-01	10.0009E-01
4	10.0410E-01	10.0444E-01	10.0763E-01	10.0211E-01	11.0020E-01	10.0022E-01
6	11.0331E-01	11.0242E-01	11.0172E-01	11.0026E-01	11.0020E-01	11.0000E-01
8	12.0301E-01	11.0144E-01	11.0211E-01	12.0020E-01	12.0020E-01	12.0000E-01
10	13.0249E-01	12.0100E-01	12.0010E-01	13.0020E-01	13.0020E-01	13.0000E-01
12	14.0202E-01	13.0055E-01	13.0074E-01	14.0020E-01	14.0020E-01	14.0000E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0007E-01	10.0149E-01	10.0001E-01	11.0002E-01	10.0020E-01	10.0020E-01
4	10.0007E-01	10.0020E-01	10.0001E-01	11.0002E-01	11.0002E-01	11.0002E-01
6	10.0007E-01	10.0020E-01	10.0001E-01	11.0002E-01	11.0002E-01	11.0002E-01
8	10.0007E-01	10.0020E-01	10.0001E-01	11.0002E-01	11.0002E-01	11.0002E-01
10	10.0007E-01	10.0020E-01	10.0001E-01	11.0002E-01	11.0002E-01	11.0002E-01
12	10.0007E-01	10.0020E-01	10.0001E-01	11.0002E-01	11.0002E-01	11.0002E-01

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS CROSSSECTIONS

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01
4	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01
6	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01
8	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01
10	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01
12	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01
4	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01
6	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01
8	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01
10	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01
12	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01
4	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01
6	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01
8	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01
10	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01
12	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01	10.0007E-01

REGULAR SLAB SOURCE = 60 IN. X 90 IN.

AIR GAP = 2.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0248E-01	10.0414E-01	10.0477E-01	10.1592E-01	10.1713E-01	10.1767E-01
4	10.1672E-01	10.1639E-01	10.1497E-01	10.4474E-01	10.3944E-01	10.3477E-01
6	10.4614E-01	10.3620E-01	10.3037E-01	10.8794E-01	10.6977E-01	10.6017E-01
8	10.6821E-01	10.5878E-01	10.5248E-01	11.3526E-01	11.0924E-01	10.8748E-01
10	11.0246E-01	10.8272E-01	10.7415E-01	11.8649E-01	11.5704E-01	11.4177E-01
12	11.3476E-01	11.1226E-01	11.0231E-01	12.4231E-01	12.0496E-01	11.9457E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2718E-01	10.2144E-01	10.1845E-01	10.4113E-01	10.3247E-01	10.2801E-01
4	10.6017E-01	10.6209E-01	10.5576E-01	11.1799E-01	10.9977E-01	10.9017E-01
6	11.0445E-01	11.0764E-01	11.0047E-01	12.2912E-01	11.9264E-01	11.6907E-01
8	12.2437E-01	11.9534E-01	11.7215E-01	13.4301E-01	12.8277E-01	12.7277E-01
10	13.1313E-01	12.6489E-01	12.5191E-01	14.6074E-01	14.2534E-01	14.1727E-01
12	14.1350E-01	13.4626E-01	13.4413E-01	16.4427E-01	15.8344E-01	15.7227E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.5733E-01	10.4547E-01	10.3904E-01	10.9624E-01	10.7727E-01	10.6947E-01
4	11.6497E-01	11.3644E-01	11.2447E-01	12.7727E-01	12.3627E-01	12.2807E-01
6	13.0717E-01	12.6339E-01	12.4937E-01	13.3447E-01	12.9644E-01	12.8417E-01
8	14.6823E-01	14.2644E-01	14.1457E-01	15.6644E-01	15.0977E-01	14.9747E-01
10	16.5744E-01	16.2626E-01	16.2209E-01	17.0944E-01	16.7527E-01	16.7117E-01
12	18.4447E-01	18.0444E-01	17.7437E-01	18.2437E-01	17.6344E-01	17.5607E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/50 CM. 2) FOR 2.0 IN. PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	35.3136E+04	43.7687E+04	41.0827E+04	33.0642E+04	41.2644E+04	42.5687E+04
4	32.7447E+04	37.0827E+04	35.2227E+04	30.1662E+04	38.7444E+04	40.2687E+04
6	30.2447E+04	30.3244E+04	29.5247E+04	27.1727E+04	33.2644E+04	34.4337E+04
8	28.0747E+04	28.0644E+04	28.0644E+04	26.0437E+04	31.2644E+04	32.1744E+04
10	26.1827E+04	26.3687E+04	26.0347E+04	25.0437E+04	29.2644E+04	30.0644E+04
12	24.3176E+04	25.2644E+04	25.0347E+04	24.1644E+04	28.0244E+04	28.3144E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	32.2744E+04	36.2644E+04	35.2644E+04	30.6827E+04	32.0644E+04	31.2644E+04
4	30.0447E+04	34.0644E+04	33.0644E+04	29.1644E+04	30.2644E+04	29.2644E+04
6	28.1447E+04	30.2644E+04	29.0644E+04	27.1727E+04	28.2644E+04	28.0644E+04
8	26.2644E+04	28.2644E+04	27.0644E+04	26.2644E+04	27.2644E+04	26.0644E+04
10	24.6713E+04	26.2644E+04	26.0644E+04	25.0644E+04	26.2644E+04	25.1744E+04
12	23.0644E+04	25.2644E+04	25.0644E+04	24.0644E+04	25.0644E+04	24.1744E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	25.2106E+04	30.1744E+04	31.1744E+04	25.0447E+04	31.0644E+04	30.0727E+04
4	24.2144E+04	28.0644E+04	27.0644E+04	24.0644E+04	29.0644E+04	28.0644E+04
6	23.0644E+04	27.0644E+04	26.0644E+04	23.0644E+04	28.0644E+04	27.0644E+04
8	22.0644E+04	26.0644E+04	25.0644E+04	22.0644E+04	27.0644E+04	26.0644E+04
10	21.0644E+04	25.0644E+04	24.0644E+04	21.0644E+04	26.0644E+04	25.0644E+04
12	20.0644E+04	24.0644E+04	23.0644E+04	20.0644E+04	25.0644E+04	24.0644E+04

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 60 IN. X 90 IN.

AIR GAP = 3.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0574E-01	10.0528E-01	10.0486E-01	10.1361E-01	10.1114E-01	10.0979E-01
4	10.2126E-01	10.1875E-01	10.1601E-01	10.4281E-01	10.3388E-01	10.2955E-01
6	10.4359E-01	10.3580E-01	10.3161E-01	10.8026E-01	10.6409E-01	10.5692E-01
8	10.7091E-01	10.5758E-01	10.5105E-01	11.2505E-01	11.0090E-01	10.9133E-01
10	11.0218E-01	10.8289E-01	10.7402E-01	11.7521E-01	11.4406E-01	11.3265E-01
12	11.3688E-01	11.1146E-01	11.0329E-01	12.3097E-01	11.9356E-01	11.8083E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2185E-01	10.1784E-01	10.1562E-01	10.3155E-01	10.2608E-01	10.2311E-01
4	10.6811E-01	10.5468E-01	10.4863E-01	10.9782E-01	10.8200E-01	10.7446E-01
6	11.2844E-01	11.0496E-01	10.9578E-01	11.9065E-01	11.6081E-01	11.5029E-01
8	12.0377E-01	11.6792E-01	11.5673E-01	13.0167E-01	12.6217E-01	12.5045E-01
10	12.8351E-01	12.4364E-01	12.3152E-01	14.3341E-01	13.8694E-01	13.7541E-01
12	13.7820E-01	13.3256E-01	13.2032E-01	15.8750E-01	15.3653E-01	15.2604E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.4322E-01	10.3613E-01	10.3238E-01	10.7310E-01	10.6197E-01	10.5657E-01
4	11.3871E-01	11.1638E-01	11.0759E-01	12.3840E-01	12.0739E-01	11.9668E-01
6	12.6841E-01	12.3271E-01	12.2151E-01	14.7220E-01	14.2709E-01	14.1650E-01
8	14.3098E-01	13.8584E-01	13.7453E-01	17.8105E-01	17.2944E-01	17.2067E-01
10	16.2914E-01	15.7833E-01	15.6830E-01	21.7824E-01	21.2529E-01	21.1904E-01
12	18.6717E-01	18.1384E-01	18.0563E-01	26.8199E-01	26.3108E-01	26.2697E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CH.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	33.3396E+04	61.7804E+04	86.4129E+04	32.0973E+04	58.0500E+04	79.5996E+04
4	30.7268E+04	53.7532E+04	71.7175E+04	28.7333E+04	48.4911E+04	62.8067E+04
6	28.4408E+04	47.5038E+04	61.1185E+04	25.9527E+04	41.4242E+04	51.3143E+04
8	26.4250E+04	42.4466E+04	53.0183E+04	23.5920E+04	35.8997E+04	42.8714E+04
10	24.6326E+04	38.2472E+04	46.6030E+04	21.5496E+04	31.4397E+04	36.4171E+04
12	23.0264E+04	34.6958E+04	41.3941E+04	19.7579E+04	27.7617E+04	31.3480E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	30.8240E+04	54.1688E+04	72.4873E+04	29.5522E+04	50.4124E+04	65.3019E+04
4	26.6597E+04	43.0114E+04	53.7302E+04	24.6341E+04	37.9737E+04	45.7580E+04
6	23.3449E+04	35.1937E+04	41.7028E+04	20.8602E+04	29.7344E+04	33.8602E+04
8	20.6163E+04	29.3532E+04	33.3941E+04	17.8511E+04	23.8692E+04	26.0989E+04
10	18.3184E+04	24.8278E+04	27.3632E+04	15.3895E+04	19.5153E+04	20.7325E+04
12	16.3517E+04	21.2338E+04	22.8359E+04	13.3396E+04	16.1872E+04	16.8556E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	28.3034E+04	46.8944E+04	59.7694E+04	25.9231E+04	40.6824E+04	49.6896E+04
4	22.7186E+04	33.5455E+04	39.1611E+04	19.3010E+04	26.4235E+04	29.3303E+04
6	18.5910E+04	25.1824E+04	27.7573E+04	14.7592E+04	18.3700E+04	19.3676E+04
8	15.4851E+04	19.3015E+04	20.7060E+04	11.4698E+04	13.3503E+04	13.6938E+04
10	12.8750E+04	15.4500E+04	16.0190E+04	90.0720E+03	99.9582E+03	10.1164E+04
12	10.8269E+04	12.4566E+04	12.7270E+04	71.2447E+03	76.4791E+03	78.9049E+03



COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 60 IN. X 90 IN.

AIR GAP = 4.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0595E-01	10.0528E-01	10.0478E-01	10.1120E-01	10.0940E-01	10.0031E-01
4	10.2092E-01	10.1749E-01	10.1545E-01	10.3649E-01	10.2954E-01	10.2606E-01
6	10.4201E-01	10.3430E-01	10.3026E-01	10.7034E-01	10.5695E-01	10.5090E-01
8	10.6768E-01	10.5488E-01	10.4868E-01	11.1078E-01	10.9082E-01	10.8272E-01
10	10.9710E-01	10.7882E-01	10.7042E-01	11.5710E-01	11.3092E-01	11.2111E-01
12	11.2987E-01	11.0978E-01	10.9930E-01	12.0904E-01	11.7720E-01	11.6613E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1640E-01	10.1409E-01	10.1264E-01	10.2265E-01	10.2003E-01	10.1029E-01
4	10.5512E-01	10.4587E-01	10.4142E-01	10.7997E-01	10.6805E-01	10.6275E-01
6	11.0833E-01	10.9091E-01	10.8378E-01	11.5999E-01	11.3862E-01	11.3068E-01
8	11.7352E-01	11.4840E-01	11.3945E-01	12.6097E-01	12.3118E-01	12.2202E-01
10	12.5006E-01	12.1837E-01	12.0846E-01	13.8256E-01	13.4639E-01	13.3710E-01
12	13.3811E-01	13.0114E-01	12.9099E-01	15.2599E-01	14.8549E-01	14.7697E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3093E-01	10.2753E-01	10.2545E-01	10.9220E-01	10.4769E-01	10.4473E-01
4	11.1086E-01	10.9673E-01	10.9063E-01	11.9687E-01	11.7466E-01	11.6727E-01
6	12.2663E-01	12.0126E-01	11.9289E-01	14.0694E-01	13.7440E-01	13.6626E-01
8	13.7531E-01	13.4126E-01	13.3264E-01	16.9175E-01	16.5246E-01	16.4560E-01
10	15.5873E-01	15.1935E-01	15.1138E-01	20.6092E-01	20.1943E-01	20.1444E-01
12	17.8055E-01	17.3834E-01	17.3173E-01	25.3097E-01	24.9035E-01	24.8702E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	31.1875E+04	57.9202E+04	81.1734E+04	30.2467E+04	54.9501E+04	75.5758E+04
4	28.8116E+04	50.5887E+04	67.6764E+04	27.2364E+04	46.1836E+04	59.8088E+04
6	26.7327E+04	44.8430E+04	57.8583E+04	24.7034E+04	39.6000E+04	49.1657E+04
8	24.8942E+04	40.1677E+04	50.3122E+04	22.5262E+04	34.4075E+04	41.1066E+04
10	23.2532E+04	36.2685E+04	44.3115E+04	20.6257E+04	30.1913E+04	35.0265E+04
12	21.7770E+04	32.9991E+04	39.4239E+04	18.9472E+04	26.7001E+04	30.1892E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	29.2462E+04	51.7121E+04	69.4510E+04	28.2159E+04	48.4712E+04	63.5007E+04
4	25.5171E+04	41.3818E+04	51.7966E+04	23.7750E+04	36.8323E+04	44.6783E+04
6	22.4659E+04	34.2023E+04	40.3595E+04	20.2553E+04	28.9672E+04	33.0295E+04
8	19.9124E+04	28.4352E+04	32.3867E+04	17.3991E+04	23.3149E+04	25.5094E+04
10	17.7308E+04	24.0960E+04	26.5778E+04	15.0375E+04	19.0999E+04	20.2942E+04
12	15.8647E+04	20.6367E+04	22.2061E+04	13.0573E+04	15.8994E+04	16.5176E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	27.1772E+04	45.3574E+04	58.0221E+04	25.1318E+04	39.7093E+04	48.6909E+04
4	22.0791E+04	32.7452E+04	38.2924E+04	18.9527E+04	26.0261E+04	28.9145E+04
6	18.1802E+04	24.6888E+04	27.2366E+04	14.5735E+04	18.1721E+04	19.1554E+04
8	15.1191E+04	19.1677E+04	20.3587E+04	11.3576E+04	13.2279E+04	13.5695E+04
10	12.6547E+04	15.2105E+04	15.7730E+04	89.3364E+03	99.1690E+03	10.0367E+04
12	10.6661E+04	12.2775E+04	12.5448E+04	70.7336E+03	75.9389E+03	70.3619E+03

RECTANGULAR SLAB SOURCE = 60 IN. X 90 IN.

AIR GAP = 5.0 IN.

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0555E-01	10.0690E-01	10.0444E-01	10.0893E-01	10.0774E-01	10.0697E-01
4	10.1934E-01	10.1620E-01	10.1436E-01	10.2036E-01	10.2531E-01	10.2263E-01
6	10.3881E-01	10.3185E-01	10.2818E-01	10.6019E-01	10.4952E-01	10.4515E-01
8	10.6261E-01	10.5169E-01	10.4543E-01	10.5666E-01	10.8085E-01	10.7420E-01
10	10.9003E-01	10.7352E-01	10.6583E-01	11.3906E-01	11.1785E-01	11.0365E-01
12	11.2065E-01	10.9895E-01	10.8922E-01	11.8712E-01	11.6087E-01	11.5148E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1193E-01	10.1091E-01	10.1010E-01	10.1559E-01	10.1507E-01	10.1431E-01
4	10.4370E-01	10.3803E-01	10.3499E-01	10.6216E-01	10.5993E-01	10.5255E-01
6	10.9004E-01	10.7804E-01	10.7279E-01	11.3253E-01	11.1865E-01	11.1305E-01
8	11.4858E-01	11.3021E-01	11.2334E-01	12.2370E-01	12.0271E-01	11.9591E-01
10	12.1857E-01	11.9452E-01	11.8671E-01	13.3531E-01	13.0865E-01	13.0159E-01
12	12.9999E-01	12.7121E-01	12.6306E-01	14.6827E-01	14.3753E-01	14.3086E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2054E-01	10.2056E-01	10.1980E-01	10.3555E-01	10.3608E-01	10.3507E-01
4	10.8692E-01	10.7969E-01	10.7593E-01	11.5681E-01	11.4618E-01	11.4164E-01
6	11.8921E-01	11.7301E-01	11.6718E-01	13.4761E-01	13.2630E-01	13.2057E-01
8	13.2434E-01	13.0067E-01	12.9421E-01	16.0914E-01	15.8119E-01	15.7610E-01
10	14.9340E-01	14.6454E-01	14.5869E-01	19.5124E-01	19.2042E-01	19.1660E-01
12	16.9946E-01	16.6760E-01	16.6246E-01	23.8887E-01	23.5787E-01	23.5527E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	29.1611E+04	54.3017E+04	76.2674E+04	28.4408E+04	51.9132E+04	71.6269E+04
4	27.0224E+04	47.6316E+04	63.8948E+04	25.7663E+04	43.9139E+04	57.2001E+04
6	25.1406E+04	42.3560E+04	54.8044E+04	23.4724E+04	37.8027E+04	47.0501E+04
8	23.4670E+04	38.0932E+04	47.7740E+04	21.4766E+04	32.9367E+04	39.4878E+04
10	21.9657E+04	34.4141E+04	42.1591E+04	19.7136E+04	28.9610E+04	33.6563E+04
12	20.6092E+04	31.3291E+04	37.5707E+04	18.1471E+04	25.6544E+04	29.0486E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	27.6500E+04	49.1996E+04	66.3327E+04	26.8142E+04	46.4028E+04	61.0511E+04
4	24.3364E+04	39.6928E+04	49.8250E+04	22.8413E+04	35.5875E+04	43.0843E+04
6	21.5498E+04	32.7528E+04	38.4652E+04	19.5886E+04	28.1242E+04	32.1116E+04
8	19.1766E+04	27.4797E+04	31.3413E+04	16.8988E+04	22.7053E+04	24.8533E+04
10	17.1330E+04	23.3354E+04	25.7635E+04	14.6483E+04	18.6356E+04	19.0144E+04
12	15.3569E+04	20.0171E+04	21.5539E+04	12.7462E+04	15.5010E+04	16.1488E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	25.9527E+04	43.6546E+04	56.0738E+04	24.2082E+04	38.5414E+04	47.3798E+04
4	21.3484E+04	31.8279E+04	37.2980E+04	18.5143E+04	25.5221E+04	28.3905E+04
6	17.7020E+04	24.1166E+04	26.6305E+04	14.3331E+04	19.9098E+04	18.8828E+04
8	14.7845E+04	18.7801E+04	19.9565E+04	11.2117E+04	13.0698E+04	13.4091E+04
10	12.4192E+04	14.9331E+04	15.4889E+04	88.3838E+03	98.1542E+03	99.3447E+03
12	10.4795E+04	12.0712E+04	12.3352E+04	70.0779E+03	75.2503E+03	75.6704E+03

RECTANGULAR SLAB SOURCE = 66 IN. X 90 IN.

AIR GAP = 6.0 IN.

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0499E-01	10.0443E-01	10.0403E-01	10.0706E-01	10.0634E-01	10.0583E-01
4	10.1750E-01	10.1479E-01	10.1318E-01	10.2512E-01	10.2162E-01	10.1964E-01
6	10.3532E-01	10.2926E-01	10.2602E-01	10.5124E-01	10.4368E-01	10.3997E-01
8	10.5730E-01	10.4717E-01	10.4212E-01	10.8401E-01	10.7187E-01	10.6633E-01
10	10.8278E-01	10.6617E-01	10.6123E-01	11.2273E-01	11.0597E-01	10.9924E-01
12	11.1141E-01	10.9205E-01	10.8319E-01	11.6710E-01	11.4592E-01	11.3808E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0849E-01	10.0838E-01	10.0806E-01	10.1027E-01	10.1120E-01	10.1117E-01
4	10.3432E-01	10.3148E-01	10.2960E-01	10.4795E-01	10.4590E-01	10.4412E-01
6	10.7445E-01	10.6699E-01	10.6335E-01	11.0922E-01	11.0160E-01	10.9900E-01
8	11.2684E-01	11.1429E-01	11.0924E-01	11.9131E-01	11.7791E-01	11.7317E-01
10	11.9769E-01	11.7335E-01	11.6741E-01	12.9363E-01	12.7529E-01	12.7014E-01
12	12.6589E-01	12.4440E-01	12.3804E-01	14.1682E-01	13.9473E-01	13.8971E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1302E-01	10.1514E-01	10.1538E-01	10.2282E-01	10.2698E-01	10.2749E-01
4	10.6728E-01	10.6595E-01	10.6376E-01	11.2503E-01	11.2230E-01	11.2007E-01
6	11.5729E-01	11.4881E-01	11.4517E-01	12.9619E-01	12.8456E-01	12.8093E-01
8	12.7986E-01	12.6505E-01	12.6263E-01	15.3615E-01	15.1818E-01	15.1465E-01
10	14.3559E-01	14.1600E-01	14.1164E-01	19.5323E-01	19.3190E-01	18.2913E-01
12	16.2704E-01	16.0437E-01	16.0057E-01	22.6097E-01	22.3861E-01	22.3667E-01

## MINIMUM SPECIFIC ODSE RATE (RAD./HR. PER CURIE/SQ. CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	27.2911E+04	50.9574E+04	71.7247E+04	26.7327E+04	49.0168E+04	67.8425E+04
4	25.3699E+04	44.8890E+04	60.3771E+04	24.3578E+04	41.7244E+04	54.5121E+04
6	23.0663E+04	40.0418E+04	51.9539E+04	22.2839E+04	36.0604E+04	44.9968E+04
8	22.1421E+04	36.0452E+04	45.3987E+04	20.4541E+04	31.5065E+04	37.847E+04
10	20.7674E+04	32.6795E+04	40.1405E+04	18.8258E+04	27.7623E+04	32.3218E+04
12	19.5195E+04	29.8012E+04	35.8296E+04	17.3666E+04	24.6342E+04	27.9360E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	26.1020E+04	46.7277E+04	63.2429E+04	25.4200E+04	44.3066E+04	59.5393E+04
4	23.1621E+04	37.9995E+04	47.8438E+04	21.8770E+04	34.2908E+04	41.6296E+04
6	20.6257E+04	31.5093E+04	37.5554E+04	18.8666E+04	27.2330E+04	31.1483E+04
8	18.4291E+04	26.5993E+04	30.2806E+04	16.3669E+04	22.0544E+04	24.1788E+04
10	16.5153E+04	22.5614E+04	24.9358E+04	14.2327E+04	18.1460E+04	19.2053E+04
12	14.8374E+04	19.3862E+04	20.8906E+04	12.4138E+04	15.1196E+04	15.7569E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	24.7034E+04	41.8797E+04	54.0238E+04	23.2169E+04	37.2632E+04	45.0897E+04
4	20.5651E+04	30.8361E+04	38.2213E+04	18.0085E+04	24.9366E+04	27.7018E+04
6	17.1764E+04	23.4871E+04	25.9669E+04	14.0462E+04	17.5878E+04	18.5978E+04
8	14.4126E+04	18.3503E+04	19.2116E+04	11.0350E+04	12.8788E+04	13.2190E+04
10	12.1459E+04	14.6218E+04	15.1736E+04	87.2231E+03	96.9248E+03	98.1060E+03
12	10.2710E+04	11.8419E+04	12.1026E+04	69.2817E+03	74.4175E+03	74.8345E+03

RECTANGULAR SLAB SOURCE = 60 IN. X 90 IN.

AIR GAP = 7.0 IN.

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0444E-01	10.0398E-01	10.0364E-01	10.0558E-01	10.0520E-01	10.0609E-01
4	10.1574E-01	10.1345E-01	10.1207E-01	10.2077E-01	10.1852E-01	10.1712E-01
6	10.3204E-01	10.2684E-01	10.2401E-01	10.4367E-01	10.3832E-01	10.3552E-01
8	10.5233E-01	10.4353E-01	10.3904E-01	10.7310E-01	10.6406E-01	10.5986E-01
10	10.7603E-01	10.6320E-01	10.5695E-01	11.0846E-01	10.9554E-01	10.9009E-01
12	11.0281E-01	10.8564E-01	10.7730E-01	11.4945E-01	11.3270E-01	11.2622E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0589E-01	10.0640E-01	10.0643E-01	10.0630E-01	10.0820E-01	10.0871E-01
4	10.2678E-01	10.2612E-01	10.2518E-01	10.3655E-01	10.3774E-01	10.3724E-01
6	10.5147E-01	10.5769E-01	10.5540E-01	10.8980E-01	10.8731E-01	10.8538E-01
8	11.0833E-01	11.0066E-01	10.8718E-01	11.6349E-01	11.5670E-01	11.5372E-01
10	11.6660E-01	11.5500E-01	11.5068E-01	12.5755E-01	12.4630E-01	12.4289E-01
12	12.3610E-01	12.2692E-01	12.1614E-01	13.7184E-01	13.5727E-01	13.5371E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0741E-01	10.1095E-01	10.1193E-01	10.1320E-01	10.1990E-01	10.2158E-01
4	10.5145E-01	10.5410E-01	10.5384E-01	10.9892E-01	11.0258E-01	11.0229E-01
6	11.3052E-01	11.2346E-01	11.2667E-01	12.5239E-01	12.4697E-01	12.4716E-01
8	12.4174E-01	12.3489E-01	12.3182E-01	14.7277E-01	14.6345E-01	14.6129E-01
10	13.8534E-01	13.7378E-01	13.7091E-01	17.6716E-01	17.5616E-01	17.5231E-01
12	15.6351E-01	15.4888E-01	15.4624E-01	21.4782E-01	21.3308E-01	21.3172E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	25.5784E+04	47.8831E+04	67.5362E+04	25.1406E+04	46.2905E+04	64.2603E+04
4	23.8491E+04	42.3525E+04	57.1120E+04	23.0264E+04	39.6382E+04	51.9405E+04
6	22.3047E+04	37.8920E+04	49.2969E+04	21.1499E+04	34.3862E+04	43.0219E+04
8	20.9140E+04	34.1902E+04	43.1776E+04	19.4744E+04	30.1279E+04	36.2785E+04
10	19.6531E+04	31.0580E+04	38.2484E+04	17.9698E+04	26.6035E+04	31.0308E+04
12	18.5034E+04	28.3695E+04	34.1941E+04	16.6118E+04	23.5459E+04	26.8579E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	24.6326E+04	44.3462E+04	60.2423E+04	24.0718E+04	42.2411E+04	56.0413E+04
4	22.0200E+04	36.3376E+04	45.8898E+04	20.9116E+04	32.9783E+04	40.1522E+04
6	19.7136E+04	30.2649E+04	36.1542E+04	18.1693E+04	26.3221E+04	30.1589E+04
8	17.6545E+04	25.5402E+04	29.2215E+04	15.8169E+04	21.3888E+04	23.4709E+04
10	15.8963E+04	21.7657E+04	24.1067E+04	13.8002E+04	17.6370E+04	18.7763E+04
12	14.3156E+04	18.7525E+04	20.2248E+04	12.0667E+04	14.7221E+04	15.3489E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	23.4724E+04	40.0932E+04	51.9420E+04	22.2028E+04	35.9248E+04	44.5127E+04
4	19.7579E+04	29.8028E+04	35.0969E+04	17.4565E+04	24.2919E+04	27.1095E+04
6	16.6207E+04	22.8191E+04	28.2626E+04	13.7220E+04	17.2277E+04	18.1889E+04
8	14.0137E+04	17.8893E+04	19.0348E+04	10.8315E+04	12.6592E+04	12.9936E+04
10	11.8488E+04	14.2923E+04	14.8339E+04	85.6798E+03	95.5006E+03	96.6734E+03
12	10.6450E+04	11.5939E+04	11.8513E+04	68.3947E+03	73.4502E+03	73.8640E+03

RECTANGULAR SLAB SOURCE = 60 IN. X120 IN.

AIR GAP = 0.0 IN.

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES					
	2	4	6	2	4	6
2	99.3830E-02	99.7204E-02	99.8900E-02	10.0871E-01	10.0810E-01	10.0750E-01
4	98.9958E-02	99.9044E-02	10.0180E-01	10.3182E-01	10.2754E-01	10.2471E-01
6	99.7673E-02	10.0832E-01	10.1023E-01	10.6683E-01	10.5970E-01	10.5000E-01
8	10.1616E-01	10.2358E-01	10.2369E-01	11.9999E-01	10.9111E-01	10.8293E-01
10	10.4110E-01	10.4346E-01	10.4136E-01	11.5955E-01	11.3311E-01	11.2200E-01
12	10.7054E-01	10.6708E-01	10.6262E-01	12.1482E-01	11.8142E-01	11.6949E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES					
	2	4	6	2	4	6
2	10.2588E-01	10.2067E-01	10.1789E-01	10.4535E-01	10.3522E-01	10.3035E-01
4	10.7754E-01	10.6124E-01	10.5395E-01	11.2841E-01	11.0150E-01	10.9079E-01
6	11.4367E-01	11.1562E-01	11.0475E-01	12.3240E-01	11.9075E-01	11.7698E-01
8	12.2132E-01	11.8286E-01	11.6968E-01	13.5594E-01	13.0300E-01	12.8765E-01
10	13.0999E-01	12.6300E-01	12.4873E-01	15.0022E-01	14.3943E-01	14.2456E-01
12	14.1005E-01	13.5644E-01	13.4204E-01	16.6725E-01	16.0164E-01	15.8823E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES					
	2	4	6	2	4	6
2	10.6689E-01	10.5170E-01	10.4486E-01	11.1932E-01	10.9019E-01	10.7993E-01
4	11.8490E-01	11.4866E-01	11.3539E-01	13.1553E-01	12.6423E-01	12.4028E-01
6	13.3446E-01	12.8209E-01	12.6631E-01	15.8277E-01	15.1644E-01	15.0110E-01
8	15.1678E-01	14.5380E-01	14.3844E-01	19.2875E-01	18.5642E-01	18.4641E-01
10	17.3585E-01	16.5705E-01	16.5369E-01	23.6984E-01	22.9775E-01	22.8037E-01
12	19.9679E-01	19.2594E-01	19.1515E-01	29.2652E-01	28.5886E-01	28.5307E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2, 4, 6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES					
	2	4	6	2	4	6
2	38.5893E+04	72.7289E+04	10.2522E+05	36.0072E+04	65.3077E+04	39.6188E+04
4	36.4641E+04	64.3461E+04	86.1424E+04	32.4029E+04	54.6819E+04	70.8233E+04
6	34.1396E+04	57.2574E+04	73.8441E+04	29.3006E+04	46.7408E+04	57.9301E+04
8	31.8846E+04	51.3496E+04	64.3089E+04	26.6295E+04	40.5210E+04	48.4521E+04
10	29.7927E+04	46.3795E+04	56.6944E+04	24.3111E+04	35.5007E+04	41.2002E+04
12	27.8820E+04	42.1490E+04	50.4818E+04	22.2789E+04	31.3627E+04	35.4984E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES					
	2	4	6	2	4	6
2	33.7472E+04	59.0341E+04	78.7781E+04	31.7468E+04	53.7331E+04	64.8541E+04
4	29.0028E+04	48.6040E+04	59.0946E+04	26.1345E+04	40.0886E+04	48.2202E+04
6	25.2869E+04	38.0235E+04	45.0388E+04	21.9863E+04	31.2539E+04	35.5731E+04
8	22.2652E+04	31.6639E+04	36.0384E+04	18.7431E+04	25.0334E+04	27.3761E+04
10	19.7440E+04	26.7593E+04	29.8191E+04	16.1210E+04	20.4401E+04	21.7245E+04
12	17.6012E+04	22.8761E+04	24.6302E+04	13.9537E+04	16.9409E+04	17.6096E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES					
	2	4	6	2	4	6
2	23.9577E+04	49.2045E+04	62.4569E+04	26.8740E+04	41.8597E+04	50.5004E+04
4	23.6846E+04	34.8143E+04	40.5810E+04	19.7082E+04	26.9077E+04	29.0610E+04
6	19.2468E+04	26.0150E+04	28.6643E+04	14.9857E+04	18.4416E+04	19.6416E+04
8	15.8892E+04	20.0983E+04	21.3412E+04	11.4150E+04	13.5154E+04	13.0635E+04
10	13.2515E+04	15.9008E+04	16.4900E+04	91.0873E+03	10.1087E+04	10.2312E+04
12	11.1297E+04	12.8094E+04	13.0903E+04	71.9946E+03	77.2956E+03	77.7291E+03

RECTANGULAR SLAB SOURCE = 60 IN. X120 IN.

AIR GAP = 1.0 IN.

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	99.8097E-02	10.0051E-01	10.0136E-01	10.1245E-01	10.1067E-01	10.0963E-01
4	10.0498E-01	10.0045E-01	10.0876E-01	10.4220E-01	10.3388E-01	10.2998E-01
6	10.2156E-01	10.2261E-01	10.2104E-01	10.0165E-01	10.6496E-01	10.5731E-01
8	10.4488E-01	10.4105E-01	10.3644E-01	11.2835E-01	11.0295E-01	10.9253E-01
10	10.7299E-01	10.6337E-01	10.5744E-01	11.7971E-01	11.4667E-01	11.3638E-01
12	11.0482E-01	10.6898E-01	10.6066E-01	12.3695E-01	11.9682E-01	11.8297E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2345E-01	10.2236E-01	10.1919E-01	10.4660E-01	10.3603E-01	10.3009E-01
4	10.8354E-01	10.6506E-01	10.5706E-01	11.7702E-01	11.0324E-01	10.9286E-01
6	11.5199E-01	11.2118E-01	11.0944E-01	12.3596E-01	11.9331E-01	11.7986E-01
8	12.3141E-01	11.8997E-01	11.7592E-01	13.6033E-01	13.0638E-01	12.9078E-01
10	13.2167E-01	12.7161E-01	12.5652E-01	15.0546E-01	14.4370E-01	14.2861E-01
12	14.2327E-01	13.6660E-01	13.5145E-01	16.7345E-01	16.0691E-01	15.9331E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.6690E-01	10.5170E-01	10.4487E-01	11.1336E-01	10.8868E-01	10.7885E-01
4	11.8495E-01	11.4870E-01	11.3545E-01	13.1215E-01	12.6175E-01	12.4606E-01
6	13.4495E-01	12.9217E-01	12.6643E-01	15.7804E-01	15.1267E-01	14.9755E-01
8	15.1682E-01	14.5937E-01	14.3864E-01	19.2535E-01	18.5117E-01	18.3932E-01
10	17.3598E-01	16.4734E-01	16.5402E-01	23.5192E-01	22.4076E-01	22.8249E-01
12	19.9710E-01	19.2643E-01	19.1567E-01	29.1663E-01	28.4947E-01	28.4410E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	37.5937E+04	70.1766E+04	98.5319E+04	35.3808E+04	63.8874E+04	87.5041E+04
4	35.0190E+04	61.5646E+04	82.3090E+04	31.6174E+04	53.2601E+04	68.9565E+04
6	32.5830E+04	54.6489E+04	70.5640E+04	28.5065E+04	45.4606E+04	56.3575E+04
8	30.3611E+04	48.9920E+04	61.4692E+04	25.8782E+04	39.3948E+04	47.1286E+04
10	28.3552E+04	44.2703E+04	54.2315E+04	23.6157E+04	34.5137E+04	40.0780E+04
12	26.5457E+04	40.2644E+04	48.3291E+04	21.6427E+04	30.4959E+04	34.5380E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	33.3515E+04	58.2360E+04	77.6525E+04	31.4959E+04	53.2782E+04	69.2451E+04
4	28.5756E+04	45.8835E+04	57.1824E+04	25.9020E+04	39.7210E+04	47.7708E+04
6	24.8845E+04	37.4085E+04	44.3073E+04	21.7823E+04	30.9597E+04	35.2330E+04
8	21.9002E+04	31.1424E+04	35.4448E+04	18.5660E+04	24.7916E+04	27.1085E+04
10	19.4165E+04	26.3153E+04	29.0302E+04	15.9669E+04	20.2403E+04	21.5100E+04
12	17.3078E+04	22.4955E+04	24.2217E+04	13.8700E+04	16.7737E+04	17.4743E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	29.7979E+04	49.9412E+04	62.1203E+04	26.8087E+04	41.7677E+04	50.8605E+04
4	23.5574E+04	34.6253E+04	40.3572E+04	19.6701E+04	26.8566E+04	29.7845E+04
6	19.1433E+04	25.8715E+04	28.5028E+04	14.9390E+04	18.6075E+04	19.6048E+04
8	15.8033E+04	19.9857E+04	21.2194E+04	11.3949E+04	13.4907E+04	13.8377E+04
10	13.1791E+04	15.8104E+04	16.3949E+04	90.9283E+03	10.0901E+04	10.2121E+04
12	11.0679E+04	12.7355E+04	13.0141E+04	71.8656E+03	77.1499E+03	77.5815E+03

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0314E-01	10.0359E-01	10.0357E-01	10.1453E-01	10.1183E-01	10.1024E-01
4	10.1542E-01	10.1435E-01	10.1308E-01	10.4563E-01	10.3959E-01	10.3082E-01
6	10.3505E-01	10.3012E-01	10.2686E-01	10.8494E-01	10.6670E-01	10.5861E-01
8	10.5993E-01	10.4981E-01	10.4427E-01	11.3071E-01	11.0410E-01	10.9365E-01
10	10.8680E-01	10.7283E-01	10.6493E-01	11.8194E-01	11.4775E-01	11.3316E-01
12	11.2094E-01	10.9822E-01	10.8859E-01	12.3844E-01	11.9737E-01	11.8329E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2715E-01	10.2140E-01	10.1840E-01	10.4180E-01	10.3286E-01	10.2847E-01
4	10.7998E-01	10.6255E-01	10.5498E-01	11.2121E-01	10.9654E-01	10.8663E-01
6	11.4611E-01	11.1697E-01	11.0583E-01	12.2176E-01	11.8308E-01	11.6933E-01
8	12.2326E-01	11.8395E-01	11.7058E-01	13.4191E-01	12.9242E-01	12.7800E-01
10	13.1125E-01	12.6367E-01	12.4926E-01	14.8278E-01	14.2571E-01	14.1188E-01
12	14.1057E-01	13.5658E-01	13.4208E-01	16.4632E-01	15.8450E-01	15.7180E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.5866E-01	10.4632E-01	10.4055E-01	10.9884E-01	10.7924E-01	10.7087E-01
4	11.6945E-01	11.3788E-01	11.2612E-01	12.8669E-01	12.4291E-01	12.2904E-01
6	13.1263E-01	12.6581E-01	12.5156E-01	15.4201E-01	14.8562E-01	14.6998E-01
8	14.8858E-01	14.3155E-01	14.1753E-01	18.7462E-01	18.0998E-01	17.9918E-01
10	17.0093E-01	16.3813E-01	16.2586E-01	22.9993E-01	22.3495E-01	22.2737E-01
12	19.5456E-01	18.8952E-01	18.7957E-01	28.3762E-01	27.7597E-01	27.7103E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	35.9119E+04	66.8361E+04	93.7760E+04	34.1396E+04	61.6634E+04	64.5100E+04
4	33.2816E+04	58.5298E+04	78.4259E+04	30.5035E+04	51.4588E+04	66.6976E+04
6	30.9242E+04	51.9842E+04	67.2584E+04	27.5238E+04	43.9741E+04	54.3770E+04
8	28.8212E+04	46.6565E+04	58.6729E+04	25.0104E+04	38.1460E+04	45.6836E+04
10	26.9398E+04	42.2140E+04	51.8345E+04	22.8666E+04	33.4495E+04	38.8802E+04
12	25.2482E+04	38.4432E+04	46.2507E+04	20.9553E+04	29.5785E+04	33.5284E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	32.4366E+04	56.7477E+04	75.7587E+04	30.8214E+04	52.2703E+04	68.0251E+04
4	27.8666E+04	44.8249E+04	55.9131E+04	25.4514E+04	39.0940E+04	47.0479E+04
6	24.3111E+04	36.5982E+04	43.3743E+04	21.4489E+04	30.5160E+04	36.7390E+04
8	21.4229E+04	30.4966E+04	34.7249E+04	18.3048E+04	24.4570E+04	26.7463E+04
10	19.0110E+04	25.7871E+04	28.4565E+04	15.7548E+04	19.9772E+04	21.2325E+04
12	16.9583E+04	22.0554E+04	23.7535E+04	13.6426E+04	16.5624E+04	17.2546E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	29.3006E+04	48.2500E+04	61.3183E+04	26.5377E+04	41.4313E+04	50.4940E+04
4	23.2709E+04	34.2500E+04	39.9383E+04	19.9542E+04	26.7183E+04	29.6372E+04
6	18.9495E+04	25.6265E+04	28.2372E+04	14.8936E+04	18.5311E+04	19.5249E+04
8	15.6605E+04	19.8109E+04	21.0344E+04	11.5522E+04	13.4421E+04	13.7877E+04
10	13.0682E+04	15.6790E+04	16.2585E+04	9.6266E+03	10.0565E+04	10.1779E+04
12	10.4791E+04	12.6332E+04	12.9094E+04	71.6408E+03	76.9053E+03	77.3347E+03

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0501E-01	10.0465E-01	10.0429E-01	10.1334E-01	10.1090E-01	10.0940E-01
4	10.1879E-01	10.1602E-01	10.1422E-01	10.4190E-01	10.3306E-01	10.2679E-01
6	10.3871E-01	10.3186E-01	10.2809E-01	10.7881E-01	10.6239E-01	10.5917E-01
8	10.6320E-01	10.5124E-01	10.4521E-01	11.2195E-01	10.9788E-01	10.8823E-01
10	10.9128E-01	10.7370E-01	10.6541E-01	11.7059E-01	11.3938E-01	11.2779E-01
12	11.2238E-01	10.9896E-01	10.8843E-01	12.2441E-01	11.8681E-01	11.7378E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2243E-01	10.1822E-01	10.1590E-01	10.3326E-01	10.2721E-01	10.2400E-01
4	10.6935E-01	10.5540E-01	10.4913E-01	11.0345E-01	10.8442E-01	10.7665E-01
6	11.3009E-01	11.0582E-01	10.9671E-01	11.9589E-01	11.6443E-01	11.5337E-01
8	12.0219E-01	11.6868E-01	11.5706E-01	13.0831E-01	12.6691E-01	12.5561E-01
10	12.8526E-01	12.4408E-01	12.3140E-01	14.4135E-01	13.9279E-01	13.8061E-01
12	13.7963E-01	13.3238E-01	13.1951E-01	15.9663E-01	15.4336E-01	15.3227E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.4619E-01	10.3808E-01	10.3394E-01	10.7853E-01	10.6558E-01	10.5959E-01
4	11.4668E-01	11.2052E-01	11.1115E-01	12.6843E-01	12.1450E-01	12.0337E-01
6	12.7696E-01	12.3905E-01	12.2722E-01	14.8660E-01	14.3883E-01	14.2744E-01
8	14.4206E-01	13.9450E-01	13.8261E-01	18.0012E-01	17.4582E-01	17.3663E-01
10	16.4282E-01	15.8952E-01	15.7897E-01	22.0291E-01	21.4748E-01	21.4095E-01
12	18.8364E-01	18.2780E-01	18.1916E-01	27.1342E-01	26.6079E-01	26.5600E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	33.9753E+04	63.2521E+04	88.8304E+04	32.5830E+04	59.0255E+04	81.0612E+04
4	31.4781E+04	55.4854E+04	74.4987E+04	29.2224E+04	49.4627E+04	64.2380E+04
6	29.2768E+04	49.3798E+04	64.0433E+04	26.4425E+04	42.3804E+04	52.6897E+04
8	27.3238E+04	44.4020E+04	55.9782E+04	24.0807E+04	36.8331E+04	44.1764E+04
10	25.5783E+04	40.2419E+04	49.5360E+04	22.0357E+04	32.3451E+04	37.6440E+04
12	24.0073E+04	36.7025E+04	44.2630E+04	20.2403E+04	28.6353E+04	32.4944E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	31.1905E+04	54.8072E+04	73.3540E+04	25.8261E+04	50.8323E+04	66.3242E+04
4	26.9677E+04	43.5332E+04	54.3956E+04	24.8239E+04	38.2532E+04	46.0988E+04
6	23.6167E+04	35.6475E+04	42.2961E+04	21.0062E+04	29.9470E+04	34.1156E+04
8	20.8632E+04	29.7589E+04	33.9114E+04	17.9709E+04	24.0418E+04	26.3023E+04
10	18.5468E+04	25.1954E+04	27.8187E+04	15.4919E+04	19.6605E+04	20.8996E+04
12	16.5655E+04	21.5696E+04	23.2394E+04	13.4294E+04	16.3121E+04	16.9958E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	28.5066E+04	47.1743E+04	60.0940E+04	26.0330E+04	40.8127E+04	49.8280E+04
4	22.8336E+04	33.6972E+04	39.3336E+04	19.3421E+04	26.4723E+04	29.3794E+04
6	18.6678E+04	25.2827E+04	27.8703E+04	14.7797E+04	18.4022E+04	19.3919E+04
8	15.4617E+04	19.5751E+04	20.7677E+04	11.4819E+04	13.3641E+04	13.7081E+04
10	12.9196E+04	15.5072E+04	16.0819E+04	90.1527E+03	10.0049E+04	10.1258E+04
12	10.8639E+04	12.5029E+04	12.7766E+04	71.3027E+03	76.5441E+03	76.9712E+03



RECTANGULAR SLAB SOURCE = 60 IN. X120 IN.

AIR GAP = 4.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0532E-01	10.0474E-01	10.0430E-01	10.1118E-01	10.0935E-01	10.0823E-01
4	10.1881E-01	10.1575E-01	10.1390E-01	10.3624E-01	10.2918E-01	10.2563E-01
6	10.3790E-01	10.3090E-01	10.2715E-01	10.6957E-01	10.5999E-01	10.4990E-01
8	10.6115E-01	10.4937E-01	10.4354E-01	11.0923E-01	10.8893E-01	10.8000E-01
10	10.8776E-01	10.7076E-01	10.6279E-01	11.5465E-01	11.2772E-01	11.1759E-01
12	11.1728E-01	10.9482E-01	10.8472E-01	12.0491E-01	11.7335E-01	11.6035E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1737E-01	10.1474E-01	10.1315E-01	10.2492E-01	10.2150E-01	10.1952E-01
4	10.5741E-01	10.4733E-01	10.4253E-01	10.8485E-01	10.7164E-01	10.6571E-01
6	11.1175E-01	10.9302E-01	10.8540E-01	11.6796E-01	11.4424E-01	11.3554E-01
8	11.7780E-01	11.5099E-01	11.4141E-01	12.7143E-01	12.3888E-01	12.2887E-01
10	12.5496E-01	12.2122E-01	12.1058E-01	13.9539E-01	13.5612E-01	13.4609E-01
12	13.4338E-01	13.0402E-01	12.9308E-01	15.4115E-01	14.9734E-01	14.8889E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3432E-01	10.3009E-01	10.2750E-01	10.5925E-01	10.5245E-01	10.4865E-01
4	11.1924E-01	11.0259E-01	10.9567E-01	12.0914E-01	11.8922E-01	11.7690E-01
6	12.3914E-01	12.1059E-01	12.0132E-01	14.2796E-01	13.9135E-01	13.8236E-01
8	13.9187E-01	13.5446E-01	13.4484E-01	17.2012E-01	16.7686E-01	16.6937E-01
10	15.7949E-01	15.3646E-01	15.2778E-01	20.9789E-01	20.5272E-01	20.4731E-01
12	18.0583E-01	17.5999E-01	17.5278E-01	25.7829E-01	25.3430E-01	25.3077E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	32.0179E+04	39.7127E+04	83.9962E+04	30.9242E+04	56.2486E+04	77.4580E+04
4	29.7184E+04	32.5493E+04	70.7251E+04	27.8820E+04	47.3973E+04	61.7086E+04
6	27.6948E+04	46.8905E+04	60.9727E+04	25.3246E+04	40.7480E+04	50.7662E+04
8	25.8968E+04	42.2559E+04	53.4116E+04	23.1271E+04	35.4977E+04	42.6492E+04
10	24.2855E+04	38.3678E+04	47.3494E+04	21.2093E+04	31.2275E+04	36.3968E+04
12	22.8309E+04	35.0493E+04	42.3728E+04	19.5153E+04	27.6845E+04	31.4545E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	29.7927E+04	52.6393E+04	70.6808E+04	28.6827E+04	49.1340E+04	64.3212E+04
4	25.9424E+04	42.1039E+04	52.7288E+04	24.0757E+04	37.3605E+04	44.9872E+04
6	22.8466E+04	34.4064E+04	41.1236E+04	20.4614E+04	29.2819E+04	33.3927E+04
8	20.2482E+04	28.9586E+04	33.0340E+04	17.3793E+04	23.5620E+04	25.7924E+04
10	18.0414E+04	24.5587E+04	27.1357E+04	15.1871E+04	19.2979E+04	20.5209E+04
12	16.1415E+04	21.0507E+04	22.6922E+04	13.1852E+04	16.0290E+04	16.7040E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	27.5238E+04	45.8333E+04	58.5719E+04	25.3464E+04	39.9624E+04	48.9118E+04
4	22.2789E+04	33.0024E+04	38.5791E+04	19.0383E+04	26.1226E+04	29.0148E+04
6	18.3115E+04	25.8542E+04	27.4164E+04	14.6160E+04	18.2195E+04	19.2043E+04
8	15.2133E+04	19.2850E+04	20.4859E+04	11.3823E+04	13.5511E+04	13.5974E+04
10	12.7366E+04	15.2989E+04	15.8676E+04	89.4945E+03	99.3425E+03	10.0543E+04
12	10.7234E+04	12.3470E+04	12.6180E+04	70.8429E+03	76.6580E+03	76.4827E+03

RECTANGULAR SLAB SOURCE = 80 IN. X120 IN.

AIR GAP = 5.0 IN.

UNIFORMITY RATIOS FOR MULTIPASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3503E-01	10.0446E-01	10.0404E-01	10.0509E-01	10.0780E-01	10.0597E-01
4	10.1769E-01	10.1477E-01	10.1305E-01	10.3055E-01	10.2526E-01	10.2247E-01
6	10.3542E-01	10.2095E-01	10.2350E-01	10.4010E-01	10.4452E-01	10.4450E-01
8	10.5746E-01	10.4632E-01	10.4003E-01	10.2683E-01	10.7973E-01	10.7200E-01
10	10.0280E-01	10.6647E-01	10.5809E-01	11.3702E-01	11.1574E-01	11.0713E-01
12	11.3904E-01	10.2919E-01	10.7901E-01	11.0477E-01	11.5740E-01	11.4750E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1301E-01	10.1168E-01	10.1071E-01	10.1798E-01	10.1676E-01	10.1566E-01
4	10.4651E-01	10.3388E-01	10.3542E-01	10.6819E-01	10.6608E-01	10.5669E-01
6	10.9445E-01	10.8070E-01	10.7505E-01	11.4206E-01	11.2543E-01	11.1099E-01
8	11.5438E-01	11.3395E-01	11.2634E-01	11.3654E-01	12.1222E-01	12.0459E-01
10	12.2592E-01	11.9897E-01	11.9732E-01	13.5137E-01	13.2058E-01	13.1207E-01
12	13.0765E-01	12.7620E-01	12.6715E-01	14.6754E-01	14.5282E-01	14.4826E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2650E-01	10.2392E-01	10.2203E-01	10.6309E-01	10.4126E-01	10.3936E-01
4	10.9648E-01	10.8644E-01	10.8173E-01	11.7353E-01	11.5859E-01	11.5203E-01
6	12.0409E-01	11.0414E-01	11.7724E-01	13.7310E-01	13.4687E-01	13.4007E-01
8	13.0447E-01	13.0571E-01	13.0912E-01	16.4411E-01	16.1127E-01	16.0591E-01
10	15.1899E-01	14.0972E-01	14.7081E-01	19.9721E-01	19.6182E-01	19.5749E-01
12	17.3094E-01	16.9455E-01	16.0882E-01	24.4799E-01	24.1288E-01	24.0996E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ. CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	30.1417E+04	56.3431E+04	79.4099E+04	29.2768E+04	53.4852E+04	73.0701E+04
4	28.0498E+04	49.7711E+04	67.1536E+04	26.5457E+04	45.3384E+04	59.1895E+04
6	26.2014E+04	44.5386E+04	58.0677E+04	24.2084E+04	39.1211E+04	48.8518E+04
8	24.5516E+04	40.2201E+04	50.9024E+04	22.1754E+04	34.1678E+04	41.1305E+04
10	23.0660E+04	36.5900E+04	45.2783E+04	20.3850E+04	30.1156E+04	35.1575E+04
12	21.7713E+04	33.4350E+04	40.5809E+04	18.7928E+04	26.7395E+04	30.4220E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	28.3552E+04	50.3910E+04	67.9005E+04	27.4040E+04	47.3039E+04	62.1537E+04
4	24.9104E+04	40.6068E+04	50.9858E+04	23.2554E+04	36.1715E+04	43.7693E+04
6	22.0337E+04	33.5139E+04	39.8971E+04	19.8999E+04	28.5405E+04	32.5984E+04
8	19.6001E+04	28.1197E+04	32.1173E+04	17.1447E+04	23.0335E+04	25.2328E+04
10	17.5096E+04	23.8927E+04	26.4232E+04	14.8499E+04	18.8998E+04	20.1064E+04
12	15.6964E+04	20.5093E+04	22.1225E+04	12.9161E+04	15.7194E+04	16.3097E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	26.4425E+04	46.3395E+04	56.8636E+04	24.5405E+04	38.9472E+04	47.0126E+04
4	21.6427E+04	32.2044E+04	37.7144E+04	18.6582E+04	25.6843E+04	28.9509E+04
6	17.8970E+04	24.3582E+04	26.8925E+04	14.4067E+04	17.9888E+04	19.9400E+04
8	14.9237E+04	18.9493E+04	20.1374E+04	11.2543E+04	13.1151E+04	13.4964E+04
10	12.5241E+04	15.0588E+04	15.6217E+04	8.6536E+03	9.8445E+03	9.9460E+03
12	10.5617E+04	12.1683E+04	12.4366E+04	7.0260E+03	7.5446E+03	7.5060E+03

RECTANGULAR SLAB SOURCE = 60 IN. X120 IN.

AIR GAP = 6.0 IN.

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0660E-01	10.0405E-01	10.0271E-01	10.0723E-01	10.0644E-01	10.0589E-01
4	10.1612E-01	10.1358E-01	10.1206E-01	10.2549E-01	10.2174E-01	10.1962E-01
6	10.3250E-01	10.2678E-01	10.2368E-01	10.5164E-01	10.4358E-01	10.3939E-01
8	10.5265E-01	10.4301E-01	10.3814E-01	10.8418E-01	10.7127E-01	10.6598E-01
10	10.7592E-01	10.6193E-01	10.5520E-01	11.2237E-01	11.0457E-01	10.9738E-01
12	11.0194E-01	10.8332E-01	10.7472E-01	11.6589E-01	11.4346E-01	11.3500E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0952E-01	10.0915E-01	10.0867E-01	10.1250E-01	10.1285E-01	10.1250E-01
4	10.3723E-01	10.3345E-01	10.3115E-01	10.5410E-01	10.5021E-01	10.4770E-01
6	10.7926E-01	10.7017E-01	10.6590E-01	11.1938E-01	11.0888E-01	11.0432E-01
8	11.3338E-01	11.1861E-01	11.1278E-01	12.0535E-01	11.8836E-01	11.8258E-01
10	11.9876E-01	11.7870E-01	11.7186E-01	13.1150E-01	12.8910E-01	12.8292E-01
12	12.7527E-01	12.5063E-01	12.4333E-01	14.3855E-01	14.1209E-01	14.0612E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1675E-01	10.1783E-01	10.1757E-01	10.3016E-01	10.3214E-01	10.3177E-01
4	10.7714E-01	10.7262E-01	10.6979E-01	11.4279E-01	11.3552E-01	11.3198E-01
6	11.7327E-01	11.6080E-01	11.5602E-01	13.2425E-01	13.0722E-01	13.0242E-01
8	13.0197E-01	12.8256E-01	12.7704E-01	15.7532E-01	15.5288E-01	15.4749E-01
10	14.6409E-01	14.3963E-01	14.3433E-01	19.0522E-01	18.7873E-01	18.7538E-01
12	16.6243E-01	16.3485E-01	16.3027E-01	23.2822E-01	23.0118E-01	22.9888E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	28.3651E+04	53.1886E+04	75.1112E+04	27.6948E+04	50.8126E+04	70.3870E+04
4	26.4892E+04	47.1669E+04	63.7989E+04	25.2482E+04	43.3296E+04	56.7232E+04
6	24.8035E+04	42.3295E+04	55.3326E+04	23.1178E+04	37.5271E+04	46.9750E+04
8	23.2907E+04	38.3199E+04	48.6909E+04	21.2417E+04	32.8618E+04	39.6392E+04
10	21.9226E+04	34.9256E+04	43.3213E+04	19.5744E+04	29.0223E+04	33.9393E+04
12	20.6776E+04	32.0078E+04	38.8852E+04	18.0814E+04	25.8096E+04	29.4064E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	26.9398E+04	48.1492E+04	65.1122E+04	26.1437E+04	45.4267E+04	59.9153E+04
4	23.8508E+04	39.0895E+04	49.2169E+04	22.3992E+04	35.0271E+04	42.4888E+04
6	21.2093E+04	32.3989E+04	38.6461E+04	19.2830E+04	27.7701E+04	31.7566E+04
8	18.9357E+04	27.2609E+04	31.1802E+04	16.6803E+04	22.4702E+04	24.6375E+04
10	16.9630E+04	23.2103E+04	25.6941E+04	14.4886E+04	18.4750E+04	19.6649E+04
12	15.2388E+04	19.9545E+04	21.5395E+04	12.6280E+04	15.3894E+04	16.0468E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	25.3244E+04	42.7644E+04	55.0515E+04	23.6670E+04	37.8252E+04	46.5803E+04
4	20.9533E+04	31.3369E+04	36.7730E+04	18.2196E+04	25.1758E+04	28.0290E+04
6	17.4400E+04	23.8114E+04	26.3168E+04	14.1582E+04	17.7107E+04	18.6836E+04
8	14.6015E+04	18.5773E+04	19.7529E+04	11.1006E+04	12.9498E+04	13.2879E+04
10	12.2871E+04	14.7924E+04	15.3694E+04	87.6410E+03	97.3700E+03	98.5574E+03
12	10.3817E+04	11.9704E+04	12.2359E+04	69.5619E+03	74.7148E+03	75.1343E+03

RECTANGULAR SLAB SOURCE = 60 IN. X120 IN.

AIR GAP = 7.0 IN.

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0412E-01	10.0389E-01	10.0337E-01	10.0575E-01	10.0531E-01	10.0496E-01
4	10.1459E-01	10.1242E-01	10.1109E-01	10.2121E-01	10.1870E-01	10.1745E-01
6	10.2963E-01	10.2466E-01	10.2192E-01	10.4423E-01	10.3837E-01	10.3532E-01
8	10.4028E-01	10.3902E-01	10.3549E-01	10.7357E-01	10.6373E-01	10.5917E-01
10	10.6997E-01	10.5796E-01	10.5148E-01	11.0950E-01	10.9495E-01	10.8863E-01
12	10.9436E-01	10.7770E-01	10.6986E-01	11.4888E-01	11.3074E-01	11.2371E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0680E-01	10.0711E-01	10.0701E-01	10.0827E-01	10.0972E-01	10.0966E-01
4	10.2956E-01	10.2805E-01	10.2671E-01	10.4246E-01	10.4194E-01	10.4074E-01
6	10.5627E-01	10.6093E-01	10.5801E-01	10.9996E-01	10.9465E-01	10.9176E-01
8	11.1507E-01	11.0518E-01	11.0090E-01	11.7810E-01	11.6748E-01	11.6244E-01
10	11.7510E-01	11.6073E-01	11.5551E-01	12.7621E-01	12.6085E-01	12.5630E-01
12	12.4617E-01	12.2777E-01	12.2204E-01	13.9479E-01	13.7567E-01	13.7114E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1074E-01	10.1345E-01	10.1398E-01	10.1997E-01	10.2480E-01	10.2564E-01
4	10.6104E-01	10.6101E-01	10.5978E-01	11.1478E-01	11.1592E-01	11.1429E-01
6	11.4472E-01	11.4066E-01	11.3770E-01	12.8163E-01	12.7286E-01	12.6954E-01
8	12.4467E-01	12.5266E-01	12.4884E-01	15.1432E-01	14.9919E-01	14.9611E-01
10	14.1532E-01	13.9866E-01	13.9480E-01	18.2284E-01	18.0433E-01	18.0186E-01
12	16.0108E-01	15.6128E-01	15.7783E-01	22.2032E-01	22.0054E-01	21.9879E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	26.7374E+04	50.2580E+04	71.1085E+04	26.2014E+04	48.2673E+04	67.0520E+04
4	25.0390E+04	44.7365E+04	60.4587E+04	24.0073E+04	41.3946E+04	54.3477E+04
6	23.5005E+04	40.2607E+04	52.7634E+04	22.0660E+04	35.9823E+04	45.1930E+04
8	22.1122E+04	36.5277E+04	46.5327E+04	20.3863E+04	31.5914E+04	38.1873E+04
10	20.8509E+04	33.3931E+04	41.6742E+04	18.7859E+04	27.9561E+04	32.7509E+04
12	19.6975E+04	30.6144E+04	37.2819E+04	17.3872E+04	24.9013E+04	28.4142E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	25.5763E+04	45.9633E+04	62.3741E+04	24.9087E+04	43.5559E+04	57.6665E+04
4	22.8079E+04	37.5832E+04	47.4596E+04	21.5326E+04	33.8584E+04	41.1778E+04
6	20.3690E+04	31.2819E+04	37.3922E+04	18.6472E+04	26.9654E+04	30.8863E+04
8	18.2676E+04	26.3962E+04	30.2370E+04	16.1959E+04	21.8840E+04	24.0186E+04
10	16.6109E+04	22.5211E+04	24.9595E+04	14.1106E+04	18.0315E+04	19.2044E+04
12	14.7753E+04	19.3935E+04	20.9504E+04	12.3258E+04	15.0443E+04	15.6927E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	24.2084E+04	41.1624E+04	53.1932E+04	22.7633E+04	36.6409E+04	43.2883E+04
4	20.2403E+04	30.4269E+04	35.7851E+04	17.7390E+04	24.6144E+04	27.4437E+04
6	16.9540E+04	23.2287E+04	25.7030E+04	13.8777E+04	17.3986E+04	18.3646E+04
8	14.2532E+04	18.1776E+04	19.3396E+04	10.9245E+04	12.7594E+04	13.0953E+04
10	12.0308E+04	14.3050E+04	15.0559E+04	8.6473E+03	9.61328E+03	97.3122E+03
12	10.1865E+04	11.7565E+04	12.0192E+04	68.7546E+03	73.8720E+03	74.2886E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 60 IN. X240 IN. AIR GAP = 0.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	99.4232E-02	99.7614E-02	99.9157E-02	10.0879E-01	10.0817E-01	10.0754E-01
4	99.1234E-02	10.0001E-01	10.0228E-01	10.3223E-01	10.2768E-01	10.2473E-01
6	10.0094E-01	10.0933E-01	10.1058E-01	10.6737E-01	10.5574E-01	10.4992E-01
8	10.1890E-01	10.2376E-01	10.2313E-01	11.1034E-01	10.9079E-01	10.8231E-01
10	10.4211E-01	10.4192E-01	10.3904E-01	11.5941E-01	11.3215E-01	11.2143E-01
12	10.6903E-01	10.6306E-01	10.5776E-01	12.1392E-01	11.7952E-01	11.6705E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2589E-01	10.2069E-01	10.1790E-01	10.4535E-01	10.3522E-01	10.3035E-01
4	10.7761E-01	10.6125E-01	10.5397E-01	11.2842E-01	11.0150E-01	10.9079E-01
6	11.4374E-01	11.1598E-01	11.0465E-01	12.3241E-01	11.9073E-01	11.7694E-01
8	12.2133E-01	11.8270E-01	11.6942E-01	13.5593E-01	13.0295E-01	12.8757E-01
10	13.0986E-01	12.6262E-01	12.4819E-01	15.0016E-01	14.3930E-01	14.2639E-01
12	14.0969E-01	13.5573E-01	13.4111E-01	16.6713E-01	16.0141E-01	15.8793E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.6689E-01	10.5170E-01	10.4486E-01	11.1532E-01	10.9019E-01	10.7993E-01
4	11.8490E-01	11.4866E-01	11.3539E-01	13.1553E-01	12.6423E-01	12.4828E-01
6	13.3446E-01	12.8208E-01	12.6630E-01	15.8277E-01	15.1644E-01	15.0110E-01
8	15.1677E-01	14.5379E-01	14.3841E-01	19.2875E-01	18.5642E-01	18.4441E-01
10	17.3583E-01	16.6701E-01	16.5364E-01	23.6984E-01	22.9775E-01	22.8937E-01
12	19.9675E-01	19.2587E-01	19.1507E-01	29.2651E-01	28.5850E-01	28.5306E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	38.5907E+04	72.8498E+04	10.2894E+05	36.0075E+04	65.3292E+04	80.6891E+04
4	36.4979E+04	64.8419E+04	87.4239E+04	32.4094E+04	54.7650E+04	71.0361E+04
6	34.2591E+04	58.1024E+04	75.8975E+04	29.3217E+04	48.8808E+04	58.2303E+04
8	32.1177E+04	52.4805E+04	66.5466E+04	26.6693E+04	40.7071E+04	48.8122E+04
10	30.1438E+04	47.7389E+04	59.1959E+04	24.3699E+04	35.7222E+04	41.5943E+04
12	28.3440E+04	43.6883E+04	53.1557E+04	22.3557E+04	31.6107E+04	35.9102E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	33.7473E+04	59.0379E+04	78.7915E+04	31.7469E+04	53.7338E+04	69.8564E+04
4	29.0041E+04	46.6175E+04	58.1279E+04	26.1331E+04	40.0908E+04	48.2254E+04
6	25.2906E+04	38.0493E+04	45.0346E+04	21.9870E+04	31.2594E+04	35.5820E+04
8	22.2718E+04	31.6926E+04	36.0912E+04	18.7442E+04	25.0378E+04	27.3838E+04
10	19.7536E+04	26.7927E+04	29.5752E+04	16.1225E+04	20.4451E+04	21.7324E+04
12	17.6135E+04	22.9127E+04	24.6871E+04	13.9557E+04	16.9463E+04	17.6574E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	29.9577E+04	49.2046E+04	62.4563E+04	26.8740E+04	41.8597E+04	50.9684E+04
4	23.6846E+04	34.8146E+04	40.5818E+04	19.7082E+04	26.9077E+04	29.8418E+04
6	19.2449E+04	26.0155E+04	28.6553E+04	14.9857E+04	18.6416E+04	19.6416E+04
8	15.8094E+04	20.0900E+04	21.3624E+04	11.6150E+04	13.9794E+04	13.8639E+04
10	13.2317E+04	15.9015E+04	16.4911E+04	91.0874E+03	10.308E+04	10.308E+04
12	11.1300E+04	12.8102E+04	13.0914E+04	71.9947E+03	77.2957E+03	77.7293E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 60 IN. X240 IN. AIR GAP = 1.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	99.0892E-02	10.0091E-01	10.0156E-01	10.1256E-01	10.1069E-01	10.0942E-01
4	10.0641E-01	10.0872E-01	10.0688E-01	10.4219E-01	10.3568E-01	10.2933E-01
6	10.2227E-01	10.2172E-01	10.1997E-01	10.8117E-01	10.6128E-01	10.5673E-01
8	10.4389E-01	10.3853E-01	10.3462E-01	11.2662E-01	11.0125E-01	10.9094E-01
10	10.6907E-01	10.5840E-01	10.5213E-01	11.7753E-01	11.4420E-01	11.3165E-01
12	10.9749E-01	10.8025E-01	10.7216E-01	12.3358E-01	11.9303E-01	11.7878E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2843E-01	10.2233E-01	10.1916E-01	10.4659E-01	10.3601E-01	10.3096E-01
4	10.8341E-01	10.892E-01	10.5691E-01	11.3097E-01	11.0319E-01	10.9221E-01
6	11.5167E-01	11.2085E-01	11.0909E-01	12.3586E-01	11.9320E-01	11.7874E-01
8	12.3085E-01	11.8936E-01	11.7525E-01	13.6016E-01	13.0619E-01	12.8505E-01
10	13.2078E-01	12.7063E-01	12.5541E-01	15.0519E-01	14.6338E-01	14.2829E-01
12	14.2197E-01	13.6511E-01	13.4976E-01	16.7305E-01	16.0642E-01	15.9276E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.6691E-01	10.5171E-01	10.4487E-01	11.1340E-01	10.8891E-01	10.7887E-01
4	11.8496E-01	11.4817E-01	11.3545E-01	13.1221E-01	12.6180E-01	12.4610E-01
6	13.3490E-01	12.8217E-01	12.6642E-01	15.7813E-01	15.1274E-01	14.9762E-01
8	15.1682E-01	14.5395E-01	14.3061E-01	19.2284E-01	18.5127E-01	18.3942E-01
10	17.3586E-01	16.6730E-01	16.5396E-01	23.6207E-01	22.9089E-01	22.8262E-01
12	19.9706E-01	19.2635E-01	19.1557E-01	29.1681E-01	28.4963E-01	28.4427E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CH.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	37.6448E+04	70.5175E+04	99.4066E+04	35.4031E+04	63.9871E+04	87.7248E+04
4	35.1781E+04	62.3590E+04	84.0996E+04	31.6677E+04	53.4477E+04	69.3231E+04
6	32.8726E+04	55.8002E+04	72.8032E+04	28.5840E+04	45.7094E+04	56.8053E+04
8	30.7790E+04	50.4126E+04	64.0521E+04	25.9793E+04	39.6858E+04	47.6202E+04
10	28.8891E+04	45.8942E+04	57.0341E+04	23.7376E+04	34.8335E+04	40.5902E+04
12	27.1810E+04	42.0415E+04	51.2678E+04	21.7801E+04	30.8348E+04	35.0552E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	33.3513E+04	58.2661E+04	77.7090E+04	31.5001E+04	53.2878E+04	69.2604E+04
4	28.5914E+04	45.9276E+04	57.2588E+04	25.9069E+04	39.7318E+04	47.7873E+04
6	24.9048E+04	37.4006E+04	44.3920E+04	21.7877E+04	30.9708E+04	35.2494E+04
8	21.9240E+04	31.1990E+04	35.5319E+04	18.5716E+04	24.8028E+04	27.1242E+04
10	19.4429E+04	26.3742E+04	29.1163E+04	15.9726E+04	22.2513E+04	21.5248E+04
12	17.3362E+04	22.5553E+04	24.3049E+04	13.8248E+04	16.7844E+04	17.4879E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	29.7998E+04	48.9445E+04	62.1248E+04	26.8090E+04	41.7682E+04	50.8611E+04
4	23.5589E+04	34.6281E+04	40.3609E+04	19.6702E+04	26.8568E+04	29.7847E+04
6	19.1447E+04	23.8740E+04	28.5061E+04	14.9591E+04	18.6077E+04	19.6050E+04
8	15.8047E+04	19.9880E+04	21.2223E+04	11.5990E+04	13.4908E+04	13.8378E+04
10	13.1803E+04	15.8125E+04	16.3973E+04	90.9289E+03	10.0922E+04	10.2122E+04
12	11.0691E+04	12.7373E+04	13.0169E+04	71.8661E+03	77.1506E+03	77.5823E+03

COBALT 60 SOURCE

RECTANGULAR SLAB SOURCE = 60 IN. X240 IN. AIR GAP = 2.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0331E-01	10.0352E-01	10.0341E-01	10.1432E-01	10.1164E-01	10.1007E-01
4	10.1487E-01	10.1340E-01	10.1206E-01	10.4466E-01	10.3492E-01	10.3020E-01
6	10.3271E-01	10.2754E-01	10.2430E-01	10.8340E-01	10.6534E-01	10.5748E-01
8	10.5495E-01	10.4494E-01	10.3949E-01	11.2820E-01	11.0180E-01	10.9132E-01
10	10.8060E-01	10.6505E-01	10.5727E-01	11.7820E-01	11.4425E-01	11.3155E-01
12	11.0895E-01	10.8754E-01	10.7739E-01	12.3341E-01	11.9238E-01	11.7802E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2718E-01	10.2141E-01	10.1840E-01	10.4219E-01	10.3311E-01	10.2866E-01
4	10.7998E-01	10.6251E-01	10.5491E-01	11.2194E-01	10.9702E-01	10.8702E-01
6	11.4602E-01	11.1681E-01	11.0582E-01	12.2274E-01	11.8574E-01	11.7039E-01
8	12.2302E-01	11.8358E-01	11.7010E-01	13.4311E-01	12.9326E-01	12.7872E-01
10	13.1076E-01	12.6299E-01	12.4841E-01	14.8418E-01	14.2670E-01	14.1256E-01
12	14.0979E-01	13.5547E-01	13.4074E-01	16.4788E-01	15.6563E-01	15.2720E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.5940E-01	10.4679E-01	10.4092E-01	11.0007E-01	10.8003E-01	10.7152E-01
4	11.7070E-01	11.3873E-01	11.2686E-01	12.8856E-01	12.4428E-01	12.3028E-01
6	13.1429E-01	12.6704E-01	12.5267E-01	15.4434E-01	14.8565E-01	14.7190E-01
8	14.9066E-01	14.3318E-01	14.1905E-01	18.7790E-01	18.1280E-01	18.0193E-01
10	17.0346E-01	16.4020E-01	16.2784E-01	23.0413E-01	22.3873E-01	22.3111E-01
12	19.5758E-01	18.9209E-01	18.8203E-01	28.4295E-01	27.8092E-01	27.7555E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM. ) FOR 2+6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	36.1235E+04	67.5442E+04	95.2016E+04	34.2591E+04	61.9539E+04	85.0055E+04
4	33.6410E+04	59.6925E+04	80.6204E+04	30.6539E+04	51.8220E+04	67.2944E+04
6	31.4207E+04	53.4688E+04	69.9082E+04	27.6968E+04	44.3777E+04	55.2177E+04
8	29.4371E+04	48.3718E+04	61.6014E+04	25.2095E+04	38.5732E+04	46.3389E+04
10	27.6574E+04	44.0968E+04	54.9312E+04	23.0496E+04	33.8895E+04	39.5326E+04
12	26.0516E+04	40.4377E+04	49.4413E+04	21.1001E+04	30.0242E+04	34.1670E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	32.5037E+04	56.8736E+04	75.9395E+04	30.8591E+04	52.2278E+04	68.0973E+04
4	27.9206E+04	44.9402E+04	58.0770E+04	25.4768E+04	39.1326E+04	47.0965E+04
6	24.3699E+04	36.7066E+04	43.5252E+04	21.4608E+04	30.5464E+04	34.7771E+04
8	21.4795E+04	30.9995E+04	34.8653E+04	18.3215E+04	24.4825E+04	26.7779E+04
10	19.0658E+04	25.8850E+04	28.5863E+04	15.7695E+04	20.0001E+04	21.2595E+04
12	17.0116E+04	22.1485E+04	23.8732E+04	13.6558E+04	16.5823E+04	17.2780E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	29.3217E+04	48.2778E+04	61.3500E+04	26.5444E+04	41.4387E+04	50.5016E+04
4	23.2814E+04	34.2637E+04	39.9540E+04	19.5560E+04	26.7202E+04	29.6392E+04
6	18.9562E+04	25.6354E+04	28.2475E+04	14.8943E+04	18.5320E+04	19.5298E+04
8	15.6654E+04	19.8175E+04	21.0420E+04	11.5527E+04	13.4426E+04	13.7779E+04
10	13.0721E+04	15.6842E+04	16.2644E+04	9.6294E+03	10.0568E+04	10.1783E+04
12	10.9823E+04	12.6376E+04	12.9142E+04	71.8428E+03	76.9076E+03	77.3372E+03

RECTANGULAR SLAB SOURCE = 60 IN. X240 IN. AIR GAP = 3.0 IN. X = 0.00 Y = 0.0

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0664E-01	10.0425E-01	10.0389E-01	10.1316E-01	10.1075E-01	10.0934E-01
4	10.1704E-01	10.1441E-01	10.1271E-01	10.4132E-01	10.325E-01	10.2826E-01
6	10.3483E-01	10.2840E-01	10.2481E-01	10.7766E-01	10.6128E-01	10.5408E-01
8	10.5654E-01	10.4937E-01	10.3965E-01	11.2004E-01	10.9502E-01	10.8629E-01
10	10.8130E-01	10.6488E-01	10.5689E-01	11.8770E-01	11.3648E-01	11.2469E-01
12	11.0863E-01	10.8660E-01	10.7636E-01	12.2042E-01	11.8260E-01	11.6922E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2311E-01	10.1866E-01	10.1623E-01	10.3697E-01	10.2830E-01	10.2409E-01
4	10.7077E-01	10.5630E-01	10.4983E-01	11.0671E-01	10.8659E-01	10.7826E-01
6	11.3209E-01	11.0709E-01	10.9732E-01	12.0039E-01	11.6761E-01	11.5615E-01
8	12.0465E-01	11.7024E-01	11.5029E-01	13.1396E-01	12.7111E-01	12.5840E-01
10	12.8907E-01	12.4584E-01	12.3278E-01	14.4813E-01	13.9801E-01	13.8589E-01
12	13.8270E-01	13.3425E-01	13.2094E-01	16.0459E-01	15.4975E-01	15.3031E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.4886E-01	10.3978E-01	10.3529E-01	10.8276E-01	10.6833E-01	10.6181E-01
4	11.4939E-01	11.2376E-01	11.1393E-01	12.5522E-01	12.1948E-01	12.0785E-01
6	12.8334E-01	12.4379E-01	12.3151E-01	14.9581E-01	14.4624E-01	14.3447E-01
8	14.5009E-01	14.0085E-01	13.8858E-01	18.1212E-01	17.5614E-01	17.4688E-01
10	16.5284E-01	15.9788E-01	15.8682E-01	22.1828E-01	21.6133E-01	21.543E-01
12	18.9545E-01	18.3801E-01	18.2912E-01	27.3290E-01	26.7844E-01	26.7404E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	34.4203E+04	64.4064E+04	90.8704E+04	32.8726E+04	59.6125E+04	81.9475E+04
4	32.0668E+04	57.0343E+04	77.1849E+04	29.5170E+04	50.0562E+04	65.1238E+04
6	29.9861E+04	51.1932E+04	67.5907E+04	26.7399E+04	42.9724E+04	53.5985E+04
8	28.1322E+04	46.3988E+04	59.2349E+04	24.3795E+04	37.4188E+04	45.0182E+04
10	26.4730E+04	42.3675E+04	52.9078E+04	22.3350E+04	32.9211E+04	38.4525E+04
12	24.9675E+04	38.9181E+04	47.6870E+04	20.5392E+04	29.1990E+04	33.2657E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	31.3777E+04	55.1154E+04	73.7574E+04	29.9467E+04	51.0019E+04	66.5232E+04
4	27.1124E+04	43.7853E+04	54.6981E+04	24.8949E+04	38.3488E+04	46.2101E+04
6	23.7376E+04	35.8405E+04	42.5441E+04	21.0548E+04	30.0128E+04	34.1922E+04
8	20.9889E+04	29.9271E+04	34.1248E+04	18.0078E+04	24.0919E+04	26.3035E+04
10	18.6420E+04	25.3456E+04	28.0062E+04	15.9217E+04	19.7010E+04	20.9439E+04
12	16.6528E+04	21.7060E+04	23.4059E+04	13.4545E+04	16.3460E+04	17.0340E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	28.3840E+04	47.2712E+04	60.2001E+04	26.0448E+04	40.8476E+04	49.6631E+04
4	22.8678E+04	33.7385E+04	39.3784E+04	19.3501E+04	26.4809E+04	29.3082E+04
6	18.6972E+04	25.3063E+04	27.8960E+04	14.7828E+04	18.4056E+04	19.5953E+04
8	15.4745E+04	19.5907E+04	20.0047E+04	11.4835E+04	13.3658E+04	13.7098E+04
10	12.9289E+04	15.5186E+04	16.4838E+04	9.01618E+03	10.0059E+04	10.1268E+04
12	10.8707E+04	12.5117E+04	12.7860E+04	71.3086E+03	76.5505E+03	76.9778E+03



RECTANGULAR SLAB SOURCE = 60 IN. X240 IN. AIR GAP = 4.0 IN. K = 0.00 Y = 0

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0477E-01	10.024E-01	10.0384E-01	10.1130E-01	10.0941E-01	10.0826E-01
4	10.1679E-01	10.1401E-01	10.1231E-01	10.3644E-01	10.2920E-01	10.2556E-01
6	10.3374E-01	10.2735E-01	10.2387E-01	10.6938E-01	10.5578E-01	10.4953E-01
8	10.5432E-01	10.4350E-01	10.3800E-01	11.0944E-01	10.8827E-01	10.7969E-01
10	10.7781E-01	10.6205E-01	10.5443E-01	11.5375E-01	11.2639E-01	11.1566E-01
12	11.0376E-01	10.8275E-01	10.7296E-01	12.0352E-01	11.7004E-01	11.5800E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1889E-01	10.1575E-01	10.1393E-01	10.2811E-01	10.2384E-01	10.2113E-01
4	10.6078E-01	10.4953E-01	10.4428E-01	10.9128E-01	10.7594E-01	10.6930E-01
6	11.1669E-01	10.9692E-01	10.8812E-01	11.7708E-01	11.5707E-01	11.4120E-01
8	11.8911E-01	11.5931E-01	11.4508E-01	12.4801E-01	12.4750E-01	12.3675E-01
10	12.6290E-01	12.2691E-01	12.1516E-01	14.0943E-01	13.6732E-01	13.5637E-01
12	13.9202E-01	13.1023E-01	12.9854E-01	15.5773E-01	15.1085E-01	15.0092E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3916E-01	10.3320E-01	10.2997E-01	10.6698E-01	10.5748E-01	10.5278E-01
4	11.2829E-01	11.0882E-01	11.0101E-01	12.2223E-01	11.9481E-01	11.8554E-01
6	12.5164E-01	12.1987E-01	12.0973E-01	14.4595E-01	14.0581E-01	13.9606E-01
8	14.0775E-01	13.6702E-01	13.5667E-01	17.4366E-01	16.9708E-01	16.8939E-01
10	15.9899E-01	15.5270E-01	15.4341E-01	21.2808E-01	20.7991E-01	20.7418E-01
12	18.2935E-01	17.8038E-01	17.7270E-01	26.1657E-01	25.7001E-01	25.6222E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CH. ) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	32.7143E+04	61.3198E+04	86.6565E+04	31.4207E+04	57.1826E+04	78.7958E+04
4	30.3324E+04	54.4673E+04	73.8762E+04	28.3440E+04	48.2506E+04	62.9155E+04
6	28.6059E+04	49.0105E+04	64.3892E+04	25.7619E+04	41.5474E+04	51.8828E+04
8	26.8849E+04	44.5118E+04	56.9700E+04	23.5460E+04	36.2549E+04	43.6907E+04
10	25.3367E+04	40.7154E+04	50.9725E+04	21.8132E+04	31.9486E+04	37.3706E+04
12	23.9339E+04	37.4072E+04	46.0091E+04	19.9086E+04	25.3731E+04	32.3653E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	30.1438E+04	53.1934E+04	71.3812E+04	28.8996E+04	49.4737E+04	64.7129E+04
4	26.2188E+04	42.4899E+04	53.2066E+04	24.2164E+04	37.4436E+04	45.1932E+04
6	23.0496E+04	34.9080E+04	41.4938E+04	20.5741E+04	29.4009E+04	33.5262E+04
8	20.4176E+04	29.2088E+04	33.3380E+04	17.6465E+04	23.6481E+04	25.8884E+04
10	18.1878E+04	24.7736E+04	27.3933E+04	15.2391E+04	19.3844E+04	20.5944E+04
12	16.2711E+04	21.2395E+04	22.9148E+04	13.2272E+04	16.0825E+04	16.7625E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	27.6968E+04	46.0509E+04	58.8054E+04	25.4308E+04	40.0554E+04	49.0072E+04
4	22.3597E+04	33.0927E+04	38.6753E+04	19.0610E+04	26.1467E+04	29.0392E+04
6	18.3536E+04	24.9032E+04	27.4685E+04	14.6247E+04	18.2288E+04	19.2135E+04
8	15.2398E+04	19.3159E+04	20.5186E+04	11.3864E+04	13.2595E+04	13.6018E+04
10	12.7590E+04	15.202E+04	15.8901E+04	89.3174E+03	99.3667E+03	10.0369E+04
12	10.7797E+04	12.3628E+04	12.6345E+04	70.8570E+03	76.0729E+03	76.4979E+03

RECTANGULAR SLAB SOURCE = 60 IN. X240 IN. AIR GAP = 5.0 IN. X = 0.00 Y = 0

UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0450E-01	10.0398E-01	10.0360E-01	10.0947E-01	10.0808E-01	10.0720E-01
4	10.1573E-01	10.1314E-01	10.1156E-01	10.3156E-01	10.2584E-01	10.2266E-01
6	10.3157E-01	10.2567E-01	10.2245E-01	10.6164E-01	10.5023E-01	10.4494E-01
8	10.5085E-01	10.4088E-01	10.3578E-01	10.9789E-01	10.8042E-01	10.7301E-01
10	10.7293E-01	10.5840E-01	10.5130E-01	11.3955E-01	11.1814E-01	11.0692E-01
12	10.9741E-01	10.7798E-01	10.6889E-01	11.8630E-01	11.5727E-01	11.4660E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1518E-01	10.1315E-01	10.1186E-01	10.2228E-01	10.1960E-01	10.1709E-01
4	10.5161E-01	10.4325E-01	10.3913E-01	10.7746E-01	10.6631E-01	10.6119E-01
6	11.0218E-01	10.8612E-01	10.7941E-01	11.5955E-01	11.3502E-01	11.2733E-01
8	11.6446E-01	11.4098E-01	11.3239E-01	12.5393E-01	12.2526E-01	12.1633E-01
10	12.3778E-01	12.0779E-01	11.9810E-01	13.7268E-01	13.3769E-01	13.2601E-01
12	13.2219E-01	12.8679E-01	12.7569E-01	15.1281E-01	14.7349E-01	14.6501E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.3103E-01	10.2756E-01	10.2539E-01	10.5378E-01	10.4825E-01	10.4505E-01
4	11.0950E-01	10.9541E-01	10.8942E-01	11.9271E-01	11.7263E-01	11.6546E-01
6	12.2252E-01	11.9782E-01	11.8965E-01	13.9989E-01	13.6839E-01	13.6050E-01
8	13.6815E-01	13.3531E-01	13.2674E-01	16.7934E-01	16.4153E-01	16.3491E-01
10	15.4822E-01	15.1007E-01	15.0226E-01	20.4247E-01	20.0259E-01	19.9777E-01
12	17.6630E-01	17.2534E-01	17.1882E-01	25.0544E-01	24.6639E-01	24.6317E-01

MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CH.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	31.0758E+04	58.3699E+04	82.6310E+04	29.9861E+04	94.7772E+04	75.6741E+04
4	29.0724E+04	52.0246E+04	70.7266E+04	27.1810E+04	46.4603E+04	60.7274E+04
6	27.2941E+04	46.9354E+04	61.8176E+04	24.7911E+04	40.1345E+04	50.2232E+04
8	25.7005E+04	42.7174E+04	54.8126E+04	22.7185E+04	35.1015E+04	42.3769E+04
10	24.2611E+04	39.1433E+04	49.1276E+04	20.8973E+04	30.9358E+04	36.3055E+04
12	22.9523E+04	36.0697E+04	44.4081E+04	19.2794E+04	27.5561E+04	31.4752E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	28.8891E+04	51.2241E+04	68.9399E+04	27.8033E+04	47.8542E+04	62.7853E+04
4	25.2961E+04	41.1714E+04	51.6687E+04	23.4864E+04	36.4488E+04	44.0973E+04
6	22.3350E+04	33.9422E+04	40.4088E+04	20.0508E+04	28.7372E+04	32.8038E+04
8	19.8462E+04	28.4653E+04	32.5259E+04	17.2521E+04	23.1664E+04	25.3782E+04
10	17.7138E+04	24.1824E+04	26.7615E+04	14.9311E+04	18.9994E+04	20.2149E+04
12	15.8753E+04	20.7584E+04	24.4093E+04	12.9803E+04	15.7981E+04	16.4702E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	26.7399E+04	44.7125E+04	57.2482E+04	24.7041E+04	39.1295E+04	47.9955E+04
4	21.7801E+04	32.3646E+04	37.8836E+04	18.7063E+04	25.7353E+04	28.6101E+04
6	17.9726E+04	24.4448E+04	26.9836E+04	14.4254E+04	18.0064E+04	18.9838E+04
8	14.9706E+04	19.0026E+04	20.1936E+04	11.2631E+04	13.1254E+04	13.4658E+04
10	12.5538E+04	15.0947E+04	15.6291E+04	88.7017E+03	98.4958E+03	99.6912E+03
12	10.5846E+04	12.1942E+04	12.4634E+04	70.2898E+03	75.4764E+03	75.8990E+03

RECTANGULAR SLAB SOURCE = 60 IN. X240 IN. AIR GAP = 6.0 IN. X = 0.00 Y = 0

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0412E-01	10.0366E-01	10.0332E-01	10.0786E-01	10.0689E-01	10.0624E-01
4	10.1446E-01	10.1214E-01	10.1073E-01	10.2714E-01	10.2277E-01	10.2038E-01
6	10.2912E-01	10.2385E-01	10.2093E-01	10.5423E-01	10.4509E-01	10.4068E-01
8	10.4710E-01	10.3812E-01	10.3346E-01	10.8749E-01	10.7308E-01	10.6676E-01
10	10.6778E-01	10.5461E-01	10.4809E-01	11.2620E-01	11.0648E-01	10.9849E-01
12	10.9081E-01	10.7310E-01	10.6466E-01	11.7900E-01	11.4517E-01	11.3582E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1207E-01	10.1092E-01	10.1007E-01	10.1746E-01	10.1619E-01	10.1514E-01
4	10.4359E-01	10.3770E-01	10.3457E-01	10.6548E-01	10.5790E-01	10.5410E-01
6	10.8919E-01	10.7634E-01	10.7156E-01	11.3643E-01	11.2102E-01	11.1496E-01
8	11.4659E-01	11.2790E-01	11.2081E-01	12.2767E-01	12.0512E-01	11.9705E-01
10	12.1504E-01	11.9053E-01	11.8237E-01	13.3909E-01	13.1078E-01	13.0326E-01
12	12.9451E-01	12.6504E-01	12.5641E-01	14.7151E-01	14.3909E-01	14.3195E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.2433E-01	10.2284E-01	10.2154E-01	10.4291E-01	10.4053E-01	10.3863E-01
4	10.9327E-01	10.8375E-01	10.7933E-01	11.6710E-01	11.5329E-01	11.4796E-01
6	11.9671E-01	11.7820E-01	11.7178E-01	13.5854E-01	13.3496E-01	13.2873E-01
8	13.3247E-01	13.0667E-01	12.9573E-01	16.2111E-01	15.9118E-01	15.8980E-01
10	15.0199E-01	14.7119E-01	14.6473E-01	19.6419E-01	19.3194E-01	19.2785E-01
12	17.0846E-01	16.7479E-01	16.6932E-01	24.0317E-01	23.7098E-01	23.6828E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ.CH.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	29.5304E+04	55.5872E+04	70.8206E+04	28.6055E+04	52.4488E+04	72.6432E+04
4	27.6950E+04	49.7172E+04	67.7459E+04	26.0516E+04	44.7150E+04	58.5913E+04
6	26.0568E+04	44.9716E+04	59.3787E+04	23.8434E+04	38.7524E+04	48.5994E+04
8	24.5816E+04	41.0163E+04	52.7629E+04	21.9082E+04	33.9714E+04	41.0896E+04
10	23.2434E+04	37.6506E+04	47.3720E+04	20.1943E+04	30.0414E+04	35.2511E+04
12	22.0222E+04	34.7426E+04	42.8826E+04	18.8634E+04	26.7542E+04	30.6018E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	27.6574E+04	49.2704E+04	66.5043E+04	26.7054E+04	46.2088E+04	60.8143E+04
4	24.3732E+04	39.8458E+04	50.1205E+04	22.7341E+04	35.4534E+04	42.9592E+04
6	21.6132E+04	32.9655E+04	39.3122E+04	19.5034E+04	28.0420E+04	32.0525E+04
8	19.2621E+04	27.7114E+04	31.7034E+04	16.8365E+04	22.6601E+04	24.8624E+04
10	17.2357E+04	23.5824E+04	26.1211E+04	14.6055E+04	18.6160E+04	19.8158E+04
12	15.4724E+04	20.2702E+04	21.8969E+04	12.7192E+04	15.4987E+04	16.1627E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	25.7619E+04	43.3210E+04	55.6577E+04	23.9298E+04	38.1223E+04	46.8953E+04
4	21.1681E+04	31.5851E+04	37.0351E+04	18.3044E+04	25.2659E+04	28.1201E+04
6	17.5591E+04	23.9467E+04	26.4577E+04	14.1925E+04	17.7465E+04	18.7198E+04
8	14.6756E+04	18.6604E+04	19.8390E+04	11.1170E+04	12.9668E+04	13.3051E+04
10	12.3307E+04	14.8575E+04	15.4066E+04	87.7295E+03	97.4619E+03	98.6499E+03
12	10.4170E+04	12.0094E+04	12.2742E+04	49.6143E+03	74.7691E+03	75.1839E+03

## UNIFORMITY RATIOS FOR MULTI-PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0373E-01	10.0333E-01	10.0364E-01	10.0650E-01	10.0586E-01	10.0540E-01
4	10.1318E-01	10.1117E-01	10.0992E-01	10.2327E-01	10.2009E-01	10.1817E-01
6	10.2673E-01	10.2208E-01	10.1946E-01	10.4760E-01	10.4046E-01	10.3685E-01
8	10.4345E-01	10.3565E-01	10.3123E-01	10.7809E-01	10.6641E-01	10.6109E-01
10	10.6280E-01	10.5096E-01	10.4500E-01	11.1401E-01	10.9763E-01	10.9078E-01
12	10.8444E-01	10.6841E-01	10.6064E-01	11.3502E-01	11.3403E-01	11.2590E-01

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.0949E-01	10.0904E-01	10.0855E-01	10.1348E-01	10.1333E-01	10.1281E-01
4	10.3658E-01	10.3287E-01	10.3060E-01	10.5521E-01	10.5082E-01	10.4795E-01
6	10.7774E-01	0.6880E-01	10.6460E-01	11.1965E-01	11.0689E-01	11.0406E-01
8	11.3061E-01	11.1617E-01	11.1042E-01	12.0431E-01	11.8716E-01	11.8137E-01
10	11.9452E-01	11.7491E-01	11.6815E-01	13.0887E-01	12.8565E-01	12.8040E-01
12	12.6935E-01	12.4523E-01	12.3795E-01	14.3411E-01	14.0791E-01	14.0197E-01

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	10.1880E-01	10.1889E-01	10.1831E-01	10.3394E-01	10.3407E-01	10.3321E-01
4	10.7935E-01	10.7368E-01	10.7061E-01	11.4507E-01	11.3658E-01	11.3285E-01
6	11.7407E-01	11.6095E-01	11.5507E-01	13.2270E-01	13.0548E-01	13.0072E-01
8	13.0074E-01	12.8117E-01	12.7566E-01	15.6912E-01	15.4619E-01	15.4191E-01
10	14.6048E-01	14.3624E-01	14.3100E-01	18.9368E-01	18.6808E-01	18.6484E-01
12	16.5616E-01	16.2905E-01	16.2454E-01	23.1046E-01	22.8447E-01	22.8224E-01

## MINIMUM SPECIFIC DOSE RATE (RAD./HR. PER CURIE/SQ. CM.) FOR 2,4,6 PASS IRRADIATORS IN TARGETS OF VARIOUS DENSITIES

TARGET THICKNESS INCHES	.1 G/CC			.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	28.0844E+04	52.9778E+04	75.2600E+04	27.2941E+04	50.2216E+04	69.7320E+04
4	26.4030E+04	47.5451E+04	64.9330E+04	24.5675E+04	43.0302E+04	56.5242E+04
6	24.8933E+04	43.1174E+04	57.0701E+04	22.9275E+04	37.4118E+04	47.0223E+04
8	23.5270E+04	39.4063E+04	50.8182E+04	21.1218E+04	32.8719E+04	39.8365E+04
10	22.2822E+04	36.2349E+04	45.7032E+04	19.5104E+04	29.1209E+04	34.2279E+04
12	21.1420E+04	33.4856E+04	41.4301E+04	18.0826E+04	25.9713E+04	29.7493E+04

TARGET THICKNESS INCHES	.5 G/CC			.7 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	26.4700E+04	47.3670E+04	64.1213E+04	25.6314E+04	44.5765E+04	58.8654E+04
4	23.4673E+04	38.5349E+04	48.5863E+04	21.9786E+04	34.4273E+04	41.8041E+04
6	20.8970E+04	31.4928E+04	38.2197E+04	18.9451E+04	27.3308E+04	31.2816E+04
8	18.6807E+04	26.9577E+04	30.8814E+04	16.4088E+04	22.1389E+04	24.2919E+04
10	16.7543E+04	22.9812E+04	25.4798E+04	14.2689E+04	18.2197E+04	19.4041E+04
12	15.0676E+04	19.7803E+04	21.3831E+04	12.4487E+04	15.1890E+04	15.8490E+04

TARGET THICKNESS INCHES	.9 G/CC			1.3 G/CC		
	NUMBER OF PASSES			NUMBER OF PASSES		
	2	4	6	2	4	6
2	24.7911E+04	41.9165E+04	54.0193E+04	23.1379E+04	37.0714E+04	45.7335E+04
4	20.5392E+04	30.7768E+04	36.1532E+04	17.8718E+04	24.7551E+04	27.5862E+04
6	17.1294E+04	23.4228E+04	25.9046E+04	13.9334E+04	17.4570E+04	18.4234E+04
8	14.3625E+04	18.2973E+04	19.4632E+04	10.9517E+04	12.7874E+04	13.1237E+04
10	12.1028E+04	14.5846E+04	15.1377E+04	8.6209E+03	9.62851E+03	97.4633E+03
12	10.2376E+04	11.8125E+04	12.0765E+04	6.8437E+03	73.9616E+03	73.3787E+03