APPENDIX F

ALLRAD88 DATA FILE

ALLRAD88 Data File
List of Valid Radionuclides

AC-225	CM-243	IN-113M	PB-211	RN-219	TH-230
AC-227	CM-244	IN-115	PB-212	RN-220	TH-231
AC-228	CM-245	IN-115M	PB-214	RN-222	TH-232
AG109M	CM-246	IR-192	PD-107	RU-103	TH-234
AG-110	CM-247	K-40	PD-109	RU-105	TL-207
AG110M	CM-248	KR-83M	PM-147	RU-106	TL-208
AG-111	CO-57	KR-85	PM-148	RU-97	TL-209
AM-241	CO-58	KR-85M	PM-148M	S-35	U-232
AM-242	CO-60	KR-87	PM-149	SB-124	U-233
AM242M	CR-51	KR-88	PM-151	SB-125	U-234
AM-243	CS-134	KR-89	PO-210	SB-126	U-235
AR-41	CS-13M	KR-90	PO-211	SB-126M	U-236
AS-76	CS-135	LA-140	PO-212	SB-127	U-237
AT-217	CS-136	LA-141	PO-213	SC-46	U-238
BA-133	CS-137	LA-142	PO-214	SE-79	U-240
BA-133M	CS-138	MN-54	PO-215	SM-147	W-181
BA-137M	CS-139	MN-56	PO-216	SM-151	W-185
BA-139	CU-64	MO-93	PO-218	SM-153	W-187
BA-140	EU-152	MO-99	PR-143	SN-113	XE-122
BA-141	EU-152M	N-13	PR-144	SN-123	XE-123
BA-142	EU-154	NA-22	PR-144M	SN-125	XE-125
BE-10	EU-155	NA-24	PU-236	SN-126	XE-127
BE-7	EU-156	NB-93M	PU-238	SR-89	XE-131M
BI-210	F-18	NB-94	PU-239	SR-90	XE-133
BI-211	FE-55	NB-95	PU-240	SR-91	XE-133M
BI-212	FE-59	NB-95M	PU-241	SR-92	XE-135
BI-213	FR-221	NB-97	PU-242	TB-160	XE-135M
BI-214	FR-223	NB-97M	PU-243	TC-101	XE-137
BR-82	GA-67	ND-147	PU-244	TC-97	XE-138
BR-83	GD-152	NI-59	RA-223	TC-99	Y-90
BR-84	H-3	NI-63	RA-224	TC-99M	Y-90M
BR-85	HF-181	NI-65	RA-225	TE-125M	Y-91
C-11	HG-203	NP-237	RA-226	TE-127	Y-91M
C-14	HO-166	NP-238	RA-228	TE-127M	Y-92
C-15	HO-166M	NP-239	RB-86	TE-129	Y-93
CA-41	I-122	NP-240	RB-87	TE-129M	ZN-65
CD-113	I-123	NP-240M	RB-88	TE-131	ZN-69
CD-113M	I-125	O-15	RB-89	TE-131M	ZN-69M
CD-115	I-129	P-32	RB-90	TE-132	ZR-93
CD-115M	I-130	PA-231	RB-90M	TE-133	ZR-95
CE-141	I-131	PA-233	RE-187	TE-133M	
CE-143	I-132	PA-234	RH-103M	TE-134	
CE-144	I-133	PA-234M	RH-105	TH-227	
CF-252	I-134	PB-209	RH-105M	TH-228	
CM-242	I-135	PB-210	RH-106	TH-229	

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CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

11 AIRDOS ORGANS PAIRED WITH DARTAB-RADRISK ORGANS:

EFFEC    WT SUM
GONADS   GONADS
BREAST   BREAST
R MARROW R MAR
LUNG     LUNGS
THYROID  THYROID
BON SURF ENDOST
RMNDR    RMNDR
INT WALL INT WALL
LIVER    LIVER
KIDNEYS  KIDNEYS

 7 ORGANS AND WEIGHTS USED TO PRODUCE WEIGHTED-SUM

GONADS   2.500E-01
BREAST   1.500E-01
R MAR    1.200E-01
LUNGS    1.200E-01
THYROID  3.000E-02
ENDOST   3.000E-02
RMNDR    3.000E-01

... WARNING ... NO DCF FOUND FOR THESE NUCLIDES; SET TO ZERO.

AR-41    FOR INGESTON
BA-141   FOR INGESTON
BA-141   FOR INHALATN
BA-142   FOR INGESTON
BA-142   FOR INHALATN
BE-10    FOR INGESTON
BE-10    FOR INHALATN
BR-83    FOR INGESTON
BR-83    FOR INHALATN
BR-84    FOR INGESTON
BR-84    FOR INHALATN
BR-85    FOR INGESTON
BR-85    FOR INHALATN
CA-41    FOR INGESTON
CA-41    FOR INHALATN
CD-113   FOR INGESTON
CD-113   FOR INHALATN
CD-113M  FOR INGESTON
CD-113M  FOR INHALATN
CS-139   FOR INGESTON
CS-139   FOR INHALATN
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ALLRAD88 Data File
(continued)

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CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

... WARNING ... NO DCF FOUND FOR THESE NUCLIDES; SET TO ZERO.

EU-152M  FOR INGESTON
EU-152M  FOR INHALATN
GD-152   FOR INGESTON
GD-152   FOR INHALATN
HO-166M  FOR INGESTON
HO-166M  FOR INHALATN
KR-83M   FOR INGESTON
KR-85    FOR INGESTON
KR-85M   FOR INGESTON
KR-87    FOR INGESTON
KR-88    FOR INGESTON
KR-89    FOR INGESTON
KR-90    FOR INGESTON
LA-141   FOR INGESTON
LA-141   FOR INHALATN
LA-142   FOR INGESTON
LA-142   FOR INHALATN
MO-93    FOR INGESTON
MO-93    FOR INHALATN
PM-151   FOR INGESTON
PM-151   FOR INHALATN
PO-211   FOR INGESTON
PO-211   FOR INHALATN
RB-90    FOR INGESTON
RB-90    FOR INHALATN
RB-90M   FOR INGESTON
RB-90M   FOR INHALATN
SE-79    FOR INGESTON
SE-79    FOR INHALATN
SN-123   FOR INGESTON
SN-123   FOR INHALATN
TC-101   FOR INGESTON
TC-101   FOR INHALATN
TE-133   FOR INGESTON
TE-133   FOR INHALATN
TE-133M  FOR INGESTON
TE-133M  FOR INHALATN
TE-134   FOR INGESTON
TE-134   FOR INHALATN
XE-122   FOR INGESTON
XE-123   FOR INGESTON
XE-125   FOR INGESTON
XE-127   FOR INGESTON
XE-131M  FOR INGESTON
XE-133   FOR INGESTON
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CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

... WARNING ... NO DCF FOUND FOR THESE NUCLIDES; SET TO ZERO.

XE-133M FOR INGESTON
Y-90M FOR INHALATN
ZZ-999 FOR INGESTON
ZZ-999 FOR INHALATN
XE-135 FOR INGESTON
XE-135M FOR INGESTON
XE-137 FOR INGESTON
XE-138 FOR INGESTON
Y-90M FOR INGESTON

IN	NAME	CLCS	BSUBV1	BSUBV2	FSUBMI D/L	FSUBFI D/KG	LAMSUR 1/D	LAMH2O 1/D
1	AC	Y	3.50E-03	1.50E-04	2.00E-05	2.50E-05	0.00E+00	0.00E+00
2	AG	Y	4.00E-01	4.28E-02	2.00E-02	3.00E-03	0.00E+00	0.00E+00
3	AM	W	5.50E-03	1.07E-04	4.00E-07	3.50E-06	0.00E+00	0.00E+00
4	AR	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	AS	W	4.00E-02	2.57E-03	6.00E-05	2.00E-03	0.00E+00	0.00E+00
6	AT	D	1.00E+00	6.42E-02	1.00E-02	1.00E-02	0.00E+00	0.00E+00
7	BA	D	1.50E-01	6.42E-03	3.50E-04	1.50E-04	0.00E+00	0.00E+00
8	BE	Y	1.00E-02	6.42E-04	9.00E-07	1.00E-03	0.00E+00	0.00E+00
9	BI	W	3.50E-02	2.14E-03	5.00E-04	4.00E-04	0.00E+00	0.00E+00
10	BR	D	1.50E+00	6.42E-01	2.00E-02	2.50E-02	0.00E+00	0.00E+00
11	C	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	CA	W	3.50E+00	1.50E-01	1.00E-02	7.00E-04	0.00E+00	0.00E+00
13	CD	Y	5.50E-01	6.42E-02	1.00E-03	5.50E-04	0.00E+00	0.00E+00
14	CE	Y	1.00E-02	1.71E-03	2.00E-05	7.50E-04	0.00E+00	0.00E+00
15	CF	Y	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	CM	W	8.50E-04	6.42E-06	2.00E-05	3.50E-06	0.00E+00	0.00E+00
17	CO	Y	2.00E-02	3.00E-03	2.00E-03	2.00E-02	0.00E+00	0.00E+00
18	CR	Y	7.50E-03	1.93E-03	1.50E-03	5.50E-03	0.00E+00	0.00E+00
19	CS	D	8.00E-02	1.28E-02	7.00E-03	2.00E-02	0.00E+00	0.00E+00
20	CU	Y	4.00E-01	1.07E-01	1.50E-03	1.00E-02	0.00E+00	0.00E+00
21	EU	W	1.00E-02	1.71E-03	2.00E-05	5.00E-03	0.00E+00	0.00E+00
22	F	D	6.00E-02	2.57E-03	1.00E-03	1.50E-01	0.00E+00	0.00E+00
23	FE	W	4.00E-03	4.28E-04	2.50E-04	2.00E-02	0.00E+00	0.00E+00
24	FR	D	3.00E-02	3.42E-03	2.00E-02	2.50E-03	0.00E+00	0.00E+00
25	GA	W	4.00E-03	1.71E-04	5.00E-05	5.00E-04	0.00E+00	0.00E+00
26	GD	W	1.00E-02	1.71E-03	2.00E-05	3.50E-03	0.00E+00	0.00E+00
27	H	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	HF	W	3.50E-03	3.64E-04	5.00E-06	1.00E-03	0.00E+00	0.00E+00
29	HG	W	9.00E-01	8.56E-02	4.50E-04	2.50E-01	0.00E+00	0.00E+00
30	HO	W	1.00E-02	1.71E-03	2.00E-05	4.50E-03	0.00E+00	0.00E+00
31	I	D	1.50E-01	2.14E-02	1.00E-02	7.00E-03	0.00E+00	0.00E+00

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

IN	NAME	CLCS	BSUBV1	BSUBV2	FSUBMI D/L	FSUBFI D/KG	LAMSUR 1/D	LAMH20 1/D
32	IN	W	4.00E-03	1.71E-04	1.00E-04	8.00E-03	0.00E+00	0.00E+00
33	IR	Y	5.50E-02	6.42E-03	2.00E-06	1.50E-03	0.00E+00	0.00E+00
34	K	D	1.00E+00	2.35E-01	7.00E-03	2.00E-02	0.00E+00	0.00E+00
35	KR	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	LA	W	1.00E-02	1.71E-03	2.00E-05	3.00E-04	0.00E+00	0.00E+00
37	MN	W	2.50E-01	2.14E-02	3.50E-04	4.00E-04	0.00E+00	0.00E+00
38	MO	Y	2.50E-01	2.57E-02	1.50E-03	6.00E-03	0.00E+00	0.00E+00
39	N	*	3.00E+01	1.28E+01	2.50E-02	7.50E-02	0.00E+00	0.00E+00
40	NA	D	7.50E-02	2.35E-02	3.50E-02	5.50E-02	0.00E+00	0.00E+00
41	NB	Y	2.00E-02	2.14E-03	2.00E-02	2.50E-01	0.00E+00	0.00E+00
42	ND	Y	1.00E-02	1.71E-03	2.00E-05	3.00E-04	0.00E+00	0.00E+00
43	NI	W	6.00E-02	2.57E-02	1.00E-03	6.00E-03	0.00E+00	0.00E+00
44	NP	W	1.00E-01	4.28E-03	5.00E-06	5.50E-05	0.00E+00	0.00E+00
45	O	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	P	D	3.50E+00	1.50E+00	1.50E-02	5.50E-02	0.00E+00	0.00E+00
47	PA	Y	2.50E-03	1.07E-04	5.00E-06	1.00E-05	0.00E+00	0.00E+00
48	PB	D	4.50E-02	3.85E-03	2.50E-04	3.00E-04	0.00E+00	0.00E+00
49	PD	Y	1.50E-01	1.71E-02	1.00E-02	4.00E-03	0.00E+00	0.00E+00
50	PM	Y	1.00E-02	1.71E-03	2.00E-05	5.00E-03	0.00E+00	0.00E+00
51	PO	W	2.50E-03	1.71E-04	3.50E-04	9.50E-05	0.00E+00	0.00E+00
52	PR	Y	1.00E-02	1.71E-03	2.00E-05	3.00E-04	0.00E+00	0.00E+00
53	PU	Y	4.50E-04	1.93E-05	1.00E-07	5.00E-07	0.00E+00	0.00E+00
54	RA	W	1.50E-02	6.42E-04	4.50E-04	2.50E-04	0.00E+00	0.00E+00
55	RB	D	1.50E-01	3.00E-02	1.00E-02	1.50E-02	0.00E+00	0.00E+00
56	RE	W	1.50E+00	1.50E-01	1.50E-03	8.00E-03	0.00E+00	0.00E+00
57	RH	Y	1.50E-01	1.71E-02	1.00E-02	2.00E-03	0.00E+00	0.00E+00
58	RN	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59	RU	Y	7.50E-02	8.56E-03	6.00E-07	2.00E-03	0.00E+00	0.00E+00
60	S	D	1.50E+00	6.42E-01	1.50E-02	1.00E-01	0.00E+00	0.00E+00
61	SB	W	2.00E-01	1.28E-02	1.00E-04	1.00E-03	0.00E+00	0.00E+00
62	SC	Y	6.00E-03	4.28E-04	5.00E-06	1.50E-02	0.00E+00	0.00E+00
63	SE	W	2.50E-02	1.07E-02	4.00E-03	1.50E-02	0.00E+00	0.00E+00
64	SM	W	1.00E-02	1.71E-03	2.00E-05	5.00E-03	0.00E+00	0.00E+00
65	SN	W	3.00E-02	2.57E-03	1.00E-03	8.00E-02	0.00E+00	0.00E+00
66	SR	D	2.50E+00	1.07E-01	1.50E-03	3.00E-04	0.00E+00	0.00E+00
67	TB	W	1.00E-02	1.71E-03	2.00E-05	4.50E-03	0.00E+00	0.00E+00
68	TC	W	9.50E+00	6.42E-01	1.00E-02	8.50E-03	0.00E+00	0.00E+00
69	TE	W	2.50E-02	1.71E-03	2.00E-04	1.50E-02	0.00E+00	0.00E+00
70	TH	Y	8.50E-04	3.64E-05	5.00E-06	6.00E-06	0.00E+00	0.00E+00
71	TL	D	4.00E-03	1.71E-04	2.00E-03	4.00E-02	0.00E+00	0.00E+00
72	U	Y	8.50E-03	1.71E-03	6.00E-04	2.00E-04	0.00E+00	0.00E+00
73	W	D	4.50E-02	4.28E-03	3.00E-04	4.50E-02	0.00E+00	0.00E+00
74	XE	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
75	Y	Y	1.50E-02	2.57E-03	2.00E-05	3.00E-04	0.00E+00	0.00E+00

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

IN	NAME	CLCS	BSUBV1	BSUBV2	FSUBMI D/L	FSUBFI D/KG	LAMSUR 1/D	LAMH20 1/D
76	ZN	Y	1.50E+00	3.85E-01	1.00E-02	1.00E-01	0.00E+00	0.00E+00
77	ZR	W	2.00E-03	2.14E-04	3.00E-05	5.50E-03	0.00E+00	0.00E+00
78	ZZ		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

RNAME	INDEX	CFSBA (A)	CFSBW (A)	CFSUR (B)	LAMRR 1/D	ANLAM 1/D
AC-225	1	1.443E+01	3.355E-02	8.609E-03	6.929E-02	6.929E-02
AC-227	1	2.393E-01	5.824E-04	3.583E-04	8.713E-05	8.713E-05
AC-228	1	9.073E+02	1.971E+00	1.810E-01	2.714E+00	2.714E+00
AG-109M	2	9.833E+00	2.477E-02	6.794E-03	1.512E+03	1.512E+03
AG-110	2	2.992E+01	6.457E-02	5.992E-03	2.437E+03	2.437E+03
AG-110M	2	2.684E+03	5.781E+00	5.064E-01	2.774E-03	2.774E-03
AG-111	2	2.553E+01	5.613E-02	5.486E-03	9.288E-02	9.288E-02
AM-241	3	2.486E+01	6.161E-02	1.781E-02	4.391E-06	4.391E-06
AM-242	3	1.616E+01	3.823E-02	1.161E-02	1.038E+00	1.038E+00
AM-242M	3	4.034E+00	1.034E-02	8.440E-03	1.248E-05	1.248E-05
AM-243	3	5.275E+01	1.266E-01	2.308E-02	2.572E-07	2.572E-07
AR-41	4	1.262E+03	2.743E+00	2.199E-01	9.101E+00	9.101E+00
AS-76	5	4.212E+02	9.115E-01	8.145E-02	6.318E-01	6.318E-01
AT-217	6	2.325E-01	5.022E-04	4.684E-05	1.854E+06	1.854E+06
BA-133	7	3.743E+02	8.356E-01	9.284E-02	1.808E-04	1.808E-04
BA-133M	7	6.372E+01	1.460E-01	1.916E-02	4.277E-01	4.277E-01
BA-137M	7	5.866E+02	1.262E+00	1.173E-01	3.911E+02	3.911E+02
BA-139	7	3.355E+01	7.469E-02	7.385E-03	1.201E+01	1.201E+01
BA-140	7	1.853E+02	4.051E-01	4.123E-02	5.420E-02	5.420E-02
BA-141	7	8.693E+02	1.891E+00	1.696E-01	5.463E+01	5.463E+01
BA-142	7	8.862E+02	1.929E+00	1.684E-01	9.330E+01	9.330E+01
BE-10	8	0.000E+00	0.000E+00	0.000E+00	1.187E-09	1.187E-09
BE-7	8	4.853E+01	1.055E-01	1.009E-02	1.297E-02	1.297E-02
BI-210	9	0.000E+00	0.000E+00	0.000E+00	1.383E-01	1.383E-01
BI-211	9	4.600E+01	1.009E-01	1.009E-02	4.686E+02	4.686E+02
BI-212	9	1.806E+02	3.904E-01	3.519E-02	1.649E+01	1.649E+01
BI-213	9	1.355E+02	2.950E-01	2.874E-02	2.186E+01	2.186E+01
BI-214	9	1.485E+03	3.211E+00	2.587E-01	5.016E+01	5.016E+01
BR-82	10	2.595E+03	5.613E+00	4.937E-01	4.713E-01	4.713E-01
BR-83	10	7.258E+00	1.578E-02	1.494E-03	6.959E+00	6.959E+00
BR-84	10	1.760E+03	3.794E+00	2.760E-01	3.139E+01	3.139E+01
BR-85	10	6.499E+01	1.401E-01	1.215E-02	3.482E+02	3.482E+02
C-11	11	9.959E+02	2.165E+00	2.051E-01	4.874E+01	4.874E+01
C-14	11	0.000E+00	0.000E+00	0.000E+00	3.312E-07	3.312E-07
C-15	11	0.000E+00	0.000E+00	0.000E+00	2.111E+09	2.111E+09
CA-41	12	3.507E-01	8.651E-04	4.600E-04	1.843E-08	1.843E-08

(A) (REM-CM**3)/(MICROCI-H)
(B) (REM-CM**2)/(MICROCI-H)

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

RNAME	INDEX	CFSBA (A)	CFSBW (A)	CFSUR (B)	LAMRR 1/D	ANLAM 1/D	(A) (REM-CM**3)/(MICROCI-H) (B) (REM-CM**2)/(MICROCI-H)
CD-113	13	0.000E+00	0.000E+00	0.000E+00	2.041E-19	2.041E-19	
CD-113M	13	0.000E+00	0.000E+00	0.000E+00	1.385E-04	1.385E-04	
CD-115	13	1.996E+02	4.347E-01	4.140E-02	3.112E-01	3.112E-01	
CD-115M	13	2.152E+01	4.642E-02	3.958E-03	1.554E-02	1.554E-02	
CE-141	14	7.216E+01	1.633E-01	1.701E-02	2.133E-02	2.133E-02	
CE-143	14	2.625E+02	5.824E-01	5.908E-02	5.041E-01	5.041E-01	
CE-144	14	1.785E+01	4.123E-02	4.558E-03	2.438E-03	2.438E-03	
CF-252	15	9.495E-01	2.443E-03	1.967E-03	7.195E-04	7.195E-04	
CM-242	16	1.431E+00	3.680E-03	3.241E-03	4.247E-03	4.247E-03	
CM-243	16	1.249E+02	2.823E-01	4.304E-02	6.660E-05	6.660E-05	
CM-244	16	1.274E+00	3.275E-03	2.895E-03	1.048E-04	1.048E-04	
CM-245	16	7.090E+01	1.642E-01	3.220E-02	2.233E-07	2.233E-07	
CM-246	16	1.135E+00	2.916E-03	2.578E-03	3.995E-07	3.995E-07	
CM-247	16	3.085E+02	6.710E-01	6.668E-02	1.216E-10	1.216E-10	
CM-248	16	9.031E-01	2.317E-03	2.042E-03	5.599E-09	5.599E-09	
CO-57	17	1.169E+02	2.659E-01	3.418E-02	2.558E-03	2.558E-03	
CO-58	17	9.579E+02	2.068E+00	1.895E-01	9.794E-03	9.794E-03	
CO-60	17	2.464E+03	5.359E+00	4.304E-01	3.600E-04	3.600E-04	
CR-51	18	3.144E+01	6.921E-02	8.187E-03	2.502E-02	2.502E-02	
CS-134	19	1.523E+03	3.287E+00	3.000E-01	9.205E-04	9.205E-04	
CS-134M	19	2.473E+01	5.866E-02	9.326E-03	5.736E+00	5.736E+00	
CS-135	19	0.000E+00	0.000E+00	0.000E+00	8.255E-10	8.255E-10	
CS-136	19	2.123E+03	4.600E+00	4.055E-01	5.267E-02	5.267E-02	
CS-137	19	0.000E+00	0.000E+00	0.000E+00	6.288E-05	6.288E-05	
CS-138	19	2.321E+03	5.022E+00	3.946E-01	3.100E+01	3.100E+01	
CS-139	19	3.017E+02	6.541E-01	4.980E-02	1.062E+02	1.062E+02	
CU-64	20	1.861E+02	4.043E-01	4.026E-02	1.310E+00	1.310E+00	
EU-152	21	1.127E+03	2.456E+00	2.161E-01	1.395E-04	1.395E-04	
EU-152M	21	3.081E+02	6.710E-01	6.077E-02	1.785E+00	1.785E+00	
EU-154	21	1.228E+03	2.667E+00	2.296E-01	2.156E-04	2.156E-04	
EU-155	21	5.528E+01	1.304E-01	1.485E-02	3.826E-04	3.826E-04	
EU-156	21	1.321E+03	2.865E+00	2.283E-01	4.564E-02	4.564E-02	
F-18	22	9.664E+02	2.097E+00	1.988E-01	9.094E+00	9.094E+00	
FE-55	23	1.422E+00	3.553E-03	2.739E-03	7.029E-04	7.029E-04	
FE-59	23	1.169E+03	2.536E+00	2.080E-01	1.553E-02	1.553E-02	
FR-221	24	2.950E+01	6.541E-02	7.047E-03	2.079E+02	2.079E+02	
FR-223	24	5.022E+01	1.169E-01	2.131E-02	4.578E+01	4.578E+01	
GA-67	25	1.418E+02	3.178E-01	4.060E-02	2.125E-01	2.125E-01	
GD-152	26	0.000E+00	0.000E+00	0.000E+00	1.725E-17	1.725E-17	
H-3	27	0.000E+00	0.000E+00	0.000E+00	1.546E-04	1.546E-04	
HF-181	28	5.275E+02	1.156E+00	1.139E-01	1.635E-02	1.635E-02	
HG-203	29	2.199E+02	4.853E-01	4.937E-02	1.487E-02	1.487E-02	
HO-166	30	2.785E+01	6.288E-02	6.625E-03	6.204E-01	6.204E-01	
HO-166M	30	1.557E+03	3.380E+00	3.152E-01	1.582E-06	1.582E-06	

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

RNAME	INDEX	CFSBA (A)	CFSBW (A)	CFSUR (B)	LAMRR 1/D	ANLAM 1/D
I-122	31	9.495E+02	2.068E+00	1.945E-01	2.757E+02	2.757E+02
I-123	31	1.620E+02	3.688E-01	4.051E-02	1.267E+00	1.267E+00
I-125	31	3.579E+01	9.200E-02	1.608E-02	1.153E-02	1.153E-02
I-129	31	2.127E+01	5.444E-02	1.182E-02	1.209E-10	1.209E-10
I-130	31	2.093E+03	4.515E+00	4.165E-01	1.345E+00	1.345E+00
I-131	31	3.701E+02	8.060E-01	7.849E-02	8.623E-02	8.623E-02
I-132	31	2.245E+03	4.853E+00	4.347E-01	7.236E+00	7.236E+00
I-133	31	5.950E+02	1.287E+00	1.190E-01	7.992E-01	7.992E-01
I-134	31	2.578E+03	5.570E+00	4.853E-01	1.898E+01	1.898E+01
I-135	31	1.549E+03	3.359E+00	2.697E-01	2.517E+00	2.517E+00
IN-113M	32	2.524E+02	5.528E-01	5.528E-02	1.003E+01	1.003E+01
IN-115	32	0.000E+00	0.000E+00	0.000E+00	4.126E-19	4.126E-19
IN-115M	32	1.595E+02	3.524E-01	3.697E-02	3.816E+00	3.816E+00
IR-192	33	7.934E+02	1.734E+00	1.692E-01	9.364E-03	9.364E-03
K-40	34	1.536E+02	3.330E-01	2.591E-02	1.486E-12	1.486E-12
KR-83M	35	2.203E+00	5.613E-03	5.570E-03	9.094E+00	9.094E+00
KR-85	35	2.178E+00	4.726E-03	4.473E-04	1.770E-04	1.770E-04
KR-85M	35	1.498E+02	3.346E-01	3.452E-02	3.713E+00	3.713E+00
KR-87	35	7.807E+02	1.684E+00	1.308E-01	1.308E+01	1.308E+01
KR-88	35	1.924E+03	4.157E+00	3.038E-01	5.858E+00	5.858E+00
KR-89	35	1.802E+03	3.899E+00	2.992E-01	3.159E+02	3.159E+02
KR-90	35	1.249E+03	2.709E+00	2.249E-01	1.853E+03	1.853E+03
LA-140	36	2.279E+03	4.937E+00	3.963E-01	4.136E-01	4.136E-01
LA-141	36	4.203E+01	9.115E-02	7.174E-03	4.222E+00	4.222E+00
LA-142	36	2.675E+03	5.781E+00	4.207E-01	1.046E+01	1.046E+01
MN-54	37	8.187E+02	1.772E+00	1.599E-01	2.217E-03	2.217E-03
MN-56	37	1.663E+03	3.591E+00	2.882E-01	6.450E+00	6.450E+00
MO-93	38	9.157E+00	2.363E-02	1.409E-02	5.422E-07	5.422E-07
MO-99	38	1.511E+02	3.275E-01	3.068E-02	2.520E-01	2.520E-01
N-13	39	9.959E+02	2.165E+00	2.051E-01	1.002E+02	1.002E+02
NA-22	40	2.152E+03	4.684E+00	4.039E-01	7.292E-04	7.292E-04
NA-24	40	4.060E+03	8.778E+00	6.077E-01	1.109E+00	1.109E+00
NB-93M	41	1.667E+00	4.304E-03	2.557E-03	1.300E-04	1.300E-04
NB-94	41	1.545E+03	3.326E+00	2.993E-01	9.350E-08	9.350E-08
NB-95	41	7.512E+02	1.616E+00	1.464E-01	1.977E-02	1.977E-02
NB-95M	41	6.288E+01	1.409E-01	2.161E-02	1.921E-01	1.921E-01
NB-97	41	6.499E+02	1.401E+00	1.296E-01	1.385E+01	1.385E+01
NB-97M	41	7.132E+02	1.536E+00	1.401E-01	9.981E+02	9.981E+02
ND-147	42	1.342E+02	3.005E-01	3.140E-02	6.312E-02	6.312E-02
NI-59	43	2.034E+00	5.106E-03	4.389E-03	2.530E-08	2.530E-08
NI-63	43	0.000E+00	0.000E+00	0.000E+00	1.896E-05	1.896E-05
NI-65	43	5.402E+02	1.173E+00	9.368E-02	6.599E+00	6.599E+00
NP-237	44	2.967E+01	7.132E-02	2.338E-02	8.872E-10	8.872E-10
NP-238	44	5.444E+02	1.182E+00	1.101E-01	3.274E-01	3.274E-01

(A) (REM-CM**3)/(MICROCI-H)
(B) (REM-CM**2)/(MICROCI-H)

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

RNAME	INDEX	CFSBA (A)	CFSBW (A)	CFSUR (B)	LAMRR 1/D	ANLAM 1/D
NP-239	44	1.620E+02	3.663E-01	5.191E-02	2.944E-01	2.944E-01
NP-240	44	1.135E+03	2.469E+00	2.502E-01	1.535E+01	1.535E+01
NP-240M	44	3.262E+02	7.090E-01	7.258E-02	1.349E+02	1.349E+02
O-15	45	9.959E+02	2.165E+00	2.055E-01	4.899E+02	4.899E+02
P-32	46	0.000E+00	0.000E+00	0.000E+00	4.851E-02	4.851E-02
PA-231	47	3.490E+01	7.934E-02	1.920E-02	5.793E-08	5.793E-08
PA-233	47	2.080E+02	4.642E-01	5.824E-02	2.567E-02	2.567E-02
PA-234	47	1.920E+03	4.174E+00	3.984E-01	2.483E+00	2.483E+00
PA-234M	47	1.118E+01	2.427E-02	2.245E-03	8.533E+02	8.533E+02
PB-209	48	0.000E+00	0.000E+00	0.000E+00	5.114E+00	5.114E+00
PB-210	48	3.904E+00	9.875E-03	6.541E-03	8.526E-05	8.526E-05
PB-211	48	4.980E+01	1.076E-01	1.004E-02	2.765E+01	2.765E+01
PB-212	48	1.409E+02	3.144E-01	3.477E-02	1.563E+00	1.563E+00
PB-214	48	2.405E+02	5.275E-01	5.486E-02	3.724E+01	3.724E+01
PD-107	49	0.000E+00	0.000E+00	0.000E+00	2.920E-10	2.920E-10
PD-109	49	6.710E-01	1.460E-03	1.384E-04	1.237E+00	1.237E+00
PM-147	50	3.233E-03	7.343E-06	7.258E-07	7.236E-04	7.236E-04
PM-148	50	5.655E+02	1.224E+00	1.021E-01	1.291E-01	1.291E-01
PM-148M	50	1.950E+03	4.212E+00	3.895E-01	1.678E-02	1.678E-02
PM-149	50	1.127E+01	2.464E-02	2.405E-03	3.134E-01	3.134E-01
PM-151	50	3.245E+02	7.132E-01	7.047E-02	5.858E-01	5.858E-01
PO-210	51	8.356E-03	1.798E-05	1.616E-06	5.009E-03	5.009E-03
PO-211	51	7.596E+00	1.646E-02	1.485E-03	1.160E+05	1.160E+05
PO-212	51	0.000E+00	0.000E+00	0.000E+00	2.010E+11	2.010E+11
PO-213	51	2.988E-02	6.457E-05	5.824E-06	1.426E+10	1.426E+10
PO-214	51	8.187E-02	1.764E-04	1.587E-05	3.658E+08	3.658E+08
PO-215	51	1.452E-01	3.157E-04	3.047E-05	3.368E+07	3.368E+07
PO-216	51	1.422E-02	3.068E-05	2.756E-06	4.102E+05	4.102E+05
PO-218	51	0.000E+00	0.000E+00	0.000E+00	3.272E+02	3.272E+02
PR-143	52	8.735E-06	1.878E-08	1.713E-09	5.111E-02	5.111E-02
PR-144	52	3.140E+01	6.752E-02	5.275E-03	5.776E+01	5.776E+01
PR-144M	52	1.030E+01	2.612E-02	4.515E-03	1.386E+02	1.386E+02
PU-236	53	1.561E+00	4.001E-03	3.726E-03	6.654E-04	6.654E-04
PU-238	53	1.372E+00	3.511E-03	3.304E-03	2.163E-05	2.163E-05
PU-239	53	5.655E-01	1.431E-03	1.270E-03	7.860E-08	7.860E-08
PU-240	53	1.304E+00	3.351E-03	3.144E-03	2.904E-07	2.904E-07
PU-241	53	0.000E+00	0.000E+00	0.000E+00	1.318E-04	1.318E-04
PU-242	53	1.085E+00	2.781E-03	2.608E-03	5.050E-09	5.050E-09
PU-243	53	2.279E+01	5.359E-02	8.398E-03	3.357E+00	3.357E+00
PU-244	53	9.326E-01	2.397E-03	2.262E-03	2.297E-11	2.297E-11
RA-223	54	1.279E+02	2.882E-01	3.473E-02	6.061E-02	6.061E-02
RA-224	54	9.622E+00	2.118E-02	2.194E-03	1.914E-01	1.914E-01
RA-225	54	1.253E+01	3.182E-02	8.989E-03	4.683E-02	4.683E-02
RA-226	54	6.414E+00	1.431E-02	1.612E-03	1.187E-06	1.187E-06

(A) (REM-CM**3)/(MICROCI-H)
(B) (REM-CM**2)/(MICROCI-H)

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

RNAME	INDEX	CFSBA (A)	CFSBW (A)	CFSUR (B)	LAMRR 1/D	ANLAM 1/D
RA-228	54	3.549E-06	8.904E-09	7.385E-09	3.301E-04	3.301E-04
RB-86	55	9.284E+01	2.017E-01	1.688E-02	3.715E-02	3.715E-02
RB-87	55	0.000E+00	0.000E+00	0.000E+00	4.013E-14	4.013E-14
RB-88	55	6.288E+02	1.355E+00	1.013E-01	5.608E+01	5.608E+01
RB-89	55	2.034E+03	4.389E+00	3.427E-01	6.462E+01	6.462E+01
RB-90	55	2.123E+03	4.558E+00	2.933E-01	3.814E+02	3.814E+02
RB-90M	55	3.220E+03	6.963E+00	5.064E-01	2.321E+02	2.321E+02
RE-187	56	0.000E+00	0.000E+00	0.000E+00	4.038E-14	4.038E-14
RH-103M	57	1.473E+00	3.811E-03	1.785E-03	1.779E+01	1.779E+01
RH-105	57	7.512E+01	1.650E-01	1.620E-02	4.705E-01	4.705E-01
RH-105M	57	3.220E+01	7.512E-02	1.456E-02	1.331E+03	1.331E+03
RH-106	57	2.030E+02	4.389E-01	4.051E-02	2.001E+03	2.001E+03
RN-219	58	5.528E+01	1.215E-01	1.215E-02	1.512E+04	1.512E+04
RN-220	58	5.106E-01	1.106E-03	1.042E-04	1.076E+03	1.076E+03
RN-222	58	3.802E-01	8.271E-04	7.807E-05	1.813E-01	1.813E-01
RU-103	59	4.726E+02	1.025E+00	9.748E-02	1.761E-02	1.761E-02
RU-105	59	7.680E+02	1.658E+00	1.536E-01	3.746E+00	3.746E+00
RU-106	59	0.000E+00	0.000E+00	0.000E+00	1.883E-03	1.883E-03
RU-97	59	2.296E+02	5.106E-01	6.119E-02	2.480E-01	2.480E-01
S-35	60	0.000E+00	0.000E+00	0.000E+00	7.930E-03	7.930E-03
SB-124	61	1.836E+03	3.971E+00	3.271E-01	1.151E-02	1.151E-02
SB-125	61	4.203E+02	9.157E-01	8.946E-02	6.851E-04	6.851E-04
SB-126	61	2.697E+03	5.824E+00	5.359E-01	5.590E-02	5.590E-02
SB-126M	61	1.536E+03	3.317E+00	3.093E-01	5.253E+01	5.253E+01
SB-127	61	6.457E+02	1.397E+00	1.304E-01	1.800E-01	1.800E-01
SC-46	62	1.975E+03	4.262E+00	3.646E-01	8.269E-03	8.269E-03
SE-79	63	0.000E+00	0.000E+00	0.000E+00	2.920E-08	2.920E-08
SM-147	64	0.000E+00	0.000E+00	0.000E+00	1.775E-14	1.775E-14
SM-151	64	1.080E-02	2.747E-05	1.595E-05	2.109E-05	2.109E-05
SM-153	64	5.570E+01	1.334E-01	1.722E-02	3.562E-01	3.562E-01
SN-113	65	2.034E+01	5.064E-02	1.038E-02	6.025E-03	6.025E-03
SN-123	65	6.794E+00	1.469E-02	1.228E-03	5.365E-03	5.365E-03
SN-125	65	2.979E+02	6.457E-01	5.402E-02	7.195E-02	7.195E-02
SN-126	65	5.106E+01	1.224E-01	1.515E-02	1.898E-08	1.898E-08
SR-89	66	1.338E-01	2.895E-04	2.532E-05	1.372E-02	1.372E-02
SR-90	66	0.000E+00	0.000E+00	0.000E+00	6.635E-05	6.635E-05
SR-91	66	6.752E+02	1.456E+00	1.274E-01	1.751E+00	1.751E+00
SR-92	66	1.317E+03	2.861E+00	2.275E-01	6.139E+00	6.139E+00
TB-160	67	1.059E+03	2.300E+00	2.013E-01	9.586E-03	9.586E-03
TC-101	68	3.321E+02	7.258E-01	7.090E-02	7.029E+01	7.029E+01
TC-97	68	1.009E+01	2.604E-02	1.372E-02	7.299E-10	7.299E-10
TC-99	68	4.769E-04	1.110E-06	1.127E-07	8.914E-09	8.914E-09
TC-99M	68	1.190E+02	2.684E-01	2.760E-02	2.763E+00	2.763E+00
TE-125M	69	3.017E+01	7.765E-02	1.359E-02	1.196E-02	1.196E-02

(A) (REM-CM**3)/(MICROCI-H)
(B) (REM-CM**2)/(MICROCI-H)

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

RNAME	INDEX	CFSBA (A)	CFSBW (A)	CFSUR (B)	LAMRR 1/D	ANLAM 1/D
TE-127	69	4.684E+00	1.025E-02	9.959E-04	1.779E+00	1.779E+00
TE-127M	69	9.664E+00	2.481E-02	4.431E-03	6.360E-03	6.360E-03
TE-129	69	5.570E+01	1.228E-01	1.245E-02	1.434E+01	1.434E+01
TE-129M	69	3.768E+01	8.398E-02	9.284E-03	2.063E-02	2.063E-02
TE-131	69	4.077E+02	8.946E-01	8.313E-02	3.993E+01	3.993E+01
TE-131M	69	1.397E+03	3.026E+00	2.667E-01	5.545E-01	5.545E-01
TE-132	69	2.190E+02	4.895E-01	5.275E-02	2.127E-01	2.127E-01
TE-133	69	9.073E+02	1.975E+00	1.739E-01	8.020E+01	8.020E+01
TE-133M	69	2.173E+03	4.726E+00	4.102E-01	1.801E+01	1.801E+01
TE-134	69	8.482E+02	1.848E+00	1.756E-01	2.388E+01	2.388E+01
TH-227	70	1.042E+02	2.329E-01	3.389E-02	3.703E-02	3.703E-02
TH-228	70	2.777E+00	6.625E-03	3.055E-03	9.919E-04	9.919E-04
TH-229	70	8.735E+01	2.030E-01	4.106E-02	2.585E-07	2.585E-07
TH-230	70	1.224E+00	3.064E-03	2.418E-03	2.464E-08	2.464E-08
TH-231	70	2.080E+01	5.106E-02	2.397E-02	6.516E-01	6.516E-01
TH-232	70	1.034E+00	2.612E-03	2.363E-03	1.350E-13	1.350E-13
TH-234	70	8.229E+00	1.958E-02	4.473E-03	2.877E-02	2.877E-02
TL-207	71	2.131E+00	4.600E-03	4.043E-04	2.093E+02	2.093E+02
TL-208	71	3.317E+03	7.132E+00	5.148E-01	3.270E+02	3.270E+02
TL-209	71	2.076E+03	4.515E+00	3.705E-01	4.537E+02	4.537E+02
U-232	72	1.536E+00	3.899E-03	3.460E-03	2.635E-05	2.635E-05
U-233	72	6.288E-01	1.561E-03	1.156E-03	1.192E-08	1.192E-08
U-234	72	1.270E+00	3.233E-03	3.009E-03	7.763E-09	7.763E-09
U-235	72	1.443E+02	3.233E-01	3.988E-02	2.697E-12	2.697E-12
U-236	72	1.177E+00	3.009E-03	2.848E-03	8.103E-11	8.103E-11
U-237	72	1.338E+02	3.081E-01	4.980E-02	1.027E-01	1.027E-01
U-238	72	1.038E+00	2.654E-03	2.519E-03	4.247E-13	4.247E-13
U-240	72	5.781E+00	1.477E-02	1.245E-02	1.180E+00	1.180E+00
W-181	73	3.600E+01	8.820E-02	1.350E-02	5.731E-03	5.731E-03
W-185	73	2.469E-02	5.613E-05	5.528E-06	9.226E-03	9.226E-03
W-187	73	4.642E+02	1.009E+00	9.622E-02	6.980E-01	6.980E-01
XE-122	74	7.132E+01	1.646E-01	2.072E-02	8.276E-01	8.276E-01
XE-123	74	6.119E+02	1.342E+00	1.245E-01	7.770E+00	7.770E+00
XE-125	74	2.553E+02	5.739E-01	6.161E-02	9.898E-01	9.898E-01
XE-127	74	2.650E+02	5.908E-01	6.372E-02	1.904E-02	1.904E-02
XE-131M	74	1.760E+01	4.389E-02	9.157E-03	5.854E-02	5.854E-02
XE-133	74	4.060E+01	9.833E-02	1.426E-02	1.322E-01	1.322E-01
XE-133M	74	3.811E+01	8.904E-02	1.376E-02	3.165E-01	3.165E-01
XE-135	74	2.389E+02	5.234E-01	5.192E-02	1.826E+00	1.826E+00
XE-135M	74	4.203E+02	9.157E-01	8.778E-02	6.498E+01	6.498E+01
XE-137	74	1.836E+02	3.984E-01	3.642E-02	2.606E+02	2.606E+02
XE-138	74	1.106E+03	2.393E+00	1.878E-01	7.070E+01	7.070E+01
Y-90	75	0.000E+00	0.000E+00	0.000E+00	2.596E-01	2.596E-01
Y-90M	75	6.161E+02	1.346E+00	1.317E-01	5.215E+00	5.215E+00

(A) (REM-CM**3)/(MICROCI-H)
(B) (REM-CM**2)/(MICROCI-H)

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

RNAME	INDEX	CFSBA (A)	CFSBW (A)	CFSUR (B)	LAMRR 1/D	ANLAM 1/D
Y-91	75	3.557E+00	7.723E-03	6.288E-04	1.185E-02	1.185E-02
Y-91M	75	5.191E+02	1.123E+00	1.063E-01	2.008E+01	2.008E+01
Y-92	75	2.473E+02	5.359E-01	4.558E-02	4.700E+00	4.700E+00
Y-93	75	8.735E+01	1.895E-01	1.561E-02	1.647E+00	1.647E+00
ZN-65	76	5.739E+02	1.245E+00	1.097E-01	2.836E-03	2.836E-03
ZN-69	76	5.824E-03	1.270E-05	1.232E-06	1.795E+01	1.795E+01
ZN-69M	76	4.055E+02	8.820E-01	8.524E-02	1.209E+00	1.209E+00
ZR-93	77	0.000E+00	0.000E+00	0.000E+00	1.240E-09	1.240E-09
ZR-95	77	7.216E+02	1.549E+00	1.414E-01	1.083E-02	1.083E-02
ZZ-999	78	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

(A) (REM-CM**3)/(MICROCI-H)
(B) (REM-CM**2)/(MICROCI-H)

FROG

NAME	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
AC-225	5.202E-01	6.138E-01	7.132E-01	3.625E-01	4.297E-01	6.051E-01	6.928E-01	4.192E-01	3.736E-01	3.888E-01	4.005E-01
AC-227	2.899E-01	3.367E-01	4.459E-01	1.939E-01	2.291E-01	3.243E-01	3.790E-01	2.231E-01	2.006E-01	2.062E-01	2.098E-01
AC-228	6.023E-01	7.066E-01	6.462E-01	5.393E-01	5.346E-01	6.741E-01	5.951E-01	5.393E-01	4.977E-01	5.021E-01	5.253E-01
AG-109M	2.528E-01	3.204E-01	4.719E-01	1.184E-01	1.746E-01	2.690E-01	3.041E-01	1.653E-01	1.428E-01	1.480E-01	1.712E-01
AG-110	5.927E-01	6.992E-01	6.344E-01	5.343E-01	5.244E-01	6.569E-01	5.921E-01	5.275E-01	4.827E-01	4.892E-01	5.132E-01
AG-110M	6.000E-01	7.056E-01	6.365E-01	5.406E-01	5.327E-01	6.679E-01	5.862E-01	5.390E-01	4.957E-01	4.997E-01	5.265E-01
AG-111	5.824E-01	6.823E-01	6.708E-01	5.188E-01	5.039E-01	6.394E-01	6.394E-01	5.003E-01	4.570E-01	4.676E-01	4.841E-01
AM-241	4.175E-01	5.277E-01	6.736E-01	1.714E-01	3.173E-01	5.039E-01	5.837E-01	3.108E-01	2.409E-01	2.850E-01	3.173E-01
AM-242	4.714E-01	5.560E-01	6.786E-01	3.106E-01	3.837E-01	5.481E-01	6.447E-01	3.717E-01	3.310E-01	3.419E-01	3.498E-01
AM-242M	6.556E-02	7.267E-02	1.955E-01	2.206E-02	3.231E-02	4.726E-02	5.521E-02	2.821E-02	2.440E-02	2.541E-02	2.719E-02
AM-243	5.310E-01	6.509E-01	7.900E-01	2.727E-01	4.246E-01	6.429E-01	7.620E-01	4.132E-01	3.419E-01	3.846E-01	4.030E-01
AR-41	5.958E-01	6.985E-01	6.284E-01	5.381E-01	5.314E-01	6.618E-01	5.682E-01	5.388E-01	5.000E-01	5.013E-01	5.314E-01
AS-76	5.940E-01	6.990E-01	6.379E-01	5.358E-01	5.267E-01	6.539E-01	5.918E-01	5.290E-01	4.865E-01	4.927E-01	5.177E-01
AT-217	5.875E-01	6.930E-01	6.350E-01	5.297E-01	5.189E-01	6.477E-01	5.932E-01	5.199E-01	4.757E-01	4.844E-01	5.062E-01
BA-133	5.500E-01	6.525E-01	6.637E-01	4.632E-01	4.677E-01	6.063E-01	6.119E-01	4.636E-01	4.190E-01	4.316E-01	4.564E-01
BA-133M	4.973E-01	5.964E-01	6.421E-01	4.011E-01	4.084E-01	5.468E-01	5.514E-01	4.060E-01	3.637E-01	3.747E-01	4.117E-01
BA-137M	5.903E-01	6.960E-01	6.335E-01	5.314E-01	5.220E-01	6.543E-01	5.896E-01	5.252E-01	4.803E-01	4.875E-01	5.113E-01
BA-139	5.988E-01	6.990E-01	7.480E-01	4.865E-01	5.067E-01	6.776E-01	7.242E-01	5.019E-01	4.569E-01	4.652E-01	4.803E-01
BA-140	5.729E-01	6.761E-01	6.419E-01	5.076E-01	5.008E-01	6.283E-01	5.987E-01	4.994E-01	4.553E-01	4.644E-01	4.871E-01
BA-141	5.964E-01	6.987E-01	6.599E-01	5.337E-01	5.240E-01	6.599E-01	6.162E-01	5.250E-01	4.840E-01	4.901E-01	5.143E-01
BA-142	5.966E-01	6.997E-01	6.426E-01	5.331E-01	5.283E-01	6.663E-01	5.902E-01	5.340E-01	4.911E-01	4.950E-01	5.236E-01
BE-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE-7	5.783E-01	6.823E-01	6.371E-01	5.206E-01	5.076E-01	6.310E-01	6.006E-01	5.062E-01	4.627E-01	4.728E-01	4.928E-01
BI-210	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BI-211	5.788E-01	6.795E-01	6.685E-01	5.107E-01	5.007E-01	6.364E-01	6.364E-01	4.970E-01	4.530E-01	4.640E-01	4.814E-01
BI-212	6.021E-01	7.077E-01	6.399E-01	5.442E-01	5.348E-01	6.680E-01	5.862E-01	5.404E-01	4.984E-01	5.045E-01	5.302E-01
BI-213	5.802E-01	6.848E-01	6.475E-01	5.167E-01	5.074E-01	6.350E-01	6.101E-01	5.055E-01	4.620E-01	4.732E-01	4.918E-01
BI-214	6.187E-01	7.243E-01	6.561E-01	5.596E-01	5.539E-01	6.789E-01	5.965E-01	5.579E-01	5.192E-01	5.226E-01	5.510E-01

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

FROG

NAME	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
BR-82	5.970E-01	7.022E-01	6.355E-01	5.380E-01	5.299E-01	6.632E-01	5.868E-01	5.348E-01	4.919E-01	4.974E-01	5.234E-01
BR-83	5.820E-01	6.858E-01	6.335E-01	5.248E-01	5.132E-01	6.393E-01	5.986E-01	5.127E-01	4.686E-01	4.783E-01	4.992E-01
BR-84	6.594E-01	7.693E-01	7.046E-01	6.015E-01	5.872E-01	7.094E-01	6.207E-01	5.963E-01	5.598E-01	5.608E-01	5.991E-01
BR-85	6.084E-01	7.139E-01	6.432E-01	5.491E-01	5.413E-01	6.815E-01	5.913E-01	5.479E-01	5.043E-01	5.082E-01	5.361E-01
C-11	5.790E-01	6.819E-01	6.353E-01	5.209E-01	5.082E-01	6.353E-01	5.972E-01	5.091E-01	4.651E-01	4.744E-01	4.955E-01
C-14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
C-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CA-41	5.095E-03	2.658E-03	2.875E-02	9.514E-05	2.899E-04	1.828E-04	4.703E-04	1.777E-04	6.062E-05	3.560E-06	4.390E-07
CD-113	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD-113M	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD-115	5.781E-01	6.826E-01	6.340E-01	5.199E-01	5.072E-01	6.319E-01	5.959E-01	5.076E-01	4.641E-01	4.734E-01	4.945E-01
CD-115M	6.024E-01	7.076E-01	6.351E-01	5.429E-01	5.370E-01	6.743E-01	5.821E-01	5.433E-01	5.006E-01	5.037E-01	5.312E-01
CE-141	5.923E-01	6.956E-01	7.833E-01	4.460E-01	4.910E-01	6.781E-01	7.657E-01	4.838E-01	4.358E-01	4.460E-01	4.624E-01
CE-143	5.641E-01	6.685E-01	6.604E-01	4.837E-01	4.837E-01	6.251E-01	6.058E-01	4.830E-01	4.374E-01	4.483E-01	4.756E-01
CE-144	5.637E-01	6.735E-01	7.798E-01	3.875E-01	4.584E-01	6.546E-01	7.396E-01	4.499E-01	3.989E-01	4.135E-01	4.395E-01
CF-252	4.433E-02	4.709E-02	1.737E-01	6.486E-03	1.315E-02	1.919E-02	2.297E-02	9.604E-03	7.454E-03	7.641E-03	8.041E-03
CM-242	3.855E-02	3.891E-02	1.598E-01	4.569E-03	1.005E-02	1.450E-02	1.766E-02	7.133E-03	5.400E-03	5.571E-03	6.043E-03
CM-243	5.675E-01	6.653E-01	7.295E-01	4.458E-01	4.762E-01	6.450E-01	7.058E-01	4.687E-01	4.235E-01	4.356E-01	4.492E-01
CM-244	3.691E-02	3.675E-02	1.576E-01	3.741E-03	8.674E-03	1.238E-02	1.510E-02	5.893E-03	4.308E-03	4.271E-03	4.701E-03
CM-245	5.551E-01	6.544E-01	7.615E-01	3.879E-01	4.575E-01	6.425E-01	7.496E-01	4.468E-01	4.004E-01	4.123E-01	4.218E-01
CM-246	3.494E-02	3.452E-02	1.550E-01	2.561E-03	6.801E-03	9.811E-03	1.163E-02	4.326E-03	2.852E-03	2.613E-03	3.438E-03
CM-247	5.783E-01	6.795E-01	6.536E-01	5.182E-01	5.032E-01	6.330E-01	6.194E-01	5.007E-01	4.569E-01	4.676E-01	4.854E-01
CM-248	3.829E-02	3.872E-02	1.593E-01	4.330E-03	9.855E-03	1.429E-02	1.728E-02	6.912E-03	5.179E-03	5.371E-03	5.932E-03
CO-57	6.008E-01	7.036E-01	8.046E-01	4.366E-01	4.979E-01	7.000E-01	8.082E-01	4.893E-01	4.409E-01	4.510E-01	4.582E-01
CO-58	5.974E-01	7.045E-01	6.341E-01	5.372E-01	5.284E-01	6.649E-01	5.901E-01	5.354E-01	4.905E-01	4.976E-01	5.196E-01
CO-60	5.968E-01	7.001E-01	6.282E-01	5.375E-01	5.324E-01	6.642E-01	5.700E-01	5.403E-01	5.009E-01	5.033E-01	5.307E-01
CR-51	5.646E-01	6.601E-01	6.534E-01	5.044E-01	4.883E-01	6.198E-01	6.225E-01	4.840E-01	4.422E-01	4.521E-01	4.682E-01
CS-134	5.953E-01	7.007E-01	6.370E-01	5.373E-01	5.262E-01	6.619E-01	5.927E-01	5.312E-01	4.858E-01	4.930E-01	5.179E-01
CS-134M	4.656E-01	5.680E-01	6.874E-01	3.002E-01	3.633E-01	5.304E-01	5.901E-01	3.575E-01	3.135E-01	3.241E-01	3.633E-01
CS-135	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS-136	6.008E-01	7.053E-01	6.437E-01	5.384E-01	5.325E-01	6.715E-01	5.941E-01	5.380E-01	4.943E-01	4.987E-01	5.245E-01
CS-137	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS-138	6.222E-01	7.287E-01	6.615E-01	5.634E-01	5.561E-01	6.797E-01	5.943E-01	5.608E-01	5.238E-01	5.270E-01	5.561E-01
CS-139	6.279E-01	7.340E-01	6.655E-01	5.690E-01	5.620E-01	6.851E-01	5.942E-01	5.682E-01	5.315E-01	5.327E-01	5.648E-01
CU-64	5.764E-01	6.800E-01	6.301E-01	5.190E-01	5.077E-01	6.301E-01	5.916E-01	5.068E-01	4.637E-01	4.737E-01	4.941E-01
EU-152	5.924E-01	6.961E-01	6.437E-01	5.240E-01	5.240E-01	6.625E-01	5.876E-01	5.285E-01	4.850E-01	4.903E-01	5.202E-01
EU-152M	5.965E-01	7.037E-01	6.448E-01	5.271E-01	5.257E-01	6.695E-01	5.901E-01	5.326E-01	4.879E-01	4.929E-01	5.216E-01
EU-154	5.991E-01	7.041E-01	6.423E-01	5.324E-01	5.324E-01	6.698E-01	5.908E-01	5.372E-01	4.939E-01	4.981E-01	5.255E-01
EU-155	5.695E-01	6.928E-01	8.241E-01	3.327E-01	4.578E-01	6.806E-01	7.935E-01	4.453E-01	3.841E-01	4.128E-01	4.380E-01
EU-156	6.300E-01	7.376E-01	6.705E-01	5.684E-01	5.620E-01	6.929E-01	6.035E-01	5.684E-01	5.294E-01	5.332E-01	5.652E-01
F-18	5.791E-01	6.852E-01	6.329E-01	5.194E-01	5.107E-01	6.329E-01	5.936E-01	5.080E-01	4.645E-01	4.757E-01	4.932E-01
FE-55	9.203E-03	4.805E-03	5.191E-02	1.717E-04	5.221E-04	3.322E-04	8.483E-04	3.205E-04	1.094E-04	6.437E-06	7.920E-07
FE-59	5.990E-01	7.036E-01	6.314E-01	5.376E-01	5.340E-01	6.675E-01	5.737E-01	5.420E-01	5.015E-01	5.051E-01	5.304E-01

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

FROG

NAME	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
FR-221	5.898E-01	6.877E-01	7.306E-01	4.933E-01	4.990E-01	6.620E-01	7.078E-01	4.936E-01	4.478E-01	4.590E-01	4.747E-01
FR-223	5.095E-01	6.207E-01	7.013E-01	3.385E-01	4.158E-01	5.896E-01	6.383E-01	4.060E-01	3.524E-01	3.788E-01	4.074E-01
GA-67	5.795E-01	6.812E-01	7.228E-01	4.670E-01	4.908E-01	6.544E-01	7.020E-01	4.837E-01	4.373E-01	4.492E-01	4.640E-01
GD-152	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
H-3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF-181	5.799E-01	6.845E-01	6.637E-01	5.038E-01	5.038E-01	6.397E-01	6.309E-01	5.007E-01	4.558E-01	4.670E-01	4.862E-01
HG-203	5.845E-01	6.829E-01	6.982E-01	5.064E-01	5.006E-01	6.483E-01	6.694E-01	4.956E-01	4.508E-01	4.623E-01	4.795E-01
HO-166	5.683E-01	6.800E-01	6.831E-01	4.392E-01	4.877E-01	6.467E-01	6.179E-01	4.889E-01	4.398E-01	4.559E-01	4.877E-01
HO-166M	5.957E-01	7.016E-01	6.529E-01	5.283E-01	5.228E-01	6.637E-01	6.122E-01	5.266E-01	4.806E-01	4.876E-01	5.120E-01
I-122	5.826E-01	6.886E-01	6.353E-01	5.242E-01	5.109E-01	6.353E-01	5.953E-01	5.135E-01	4.686E-01	4.798E-01	5.020E-01
I-123	5.531E-01	6.509E-01	7.238E-01	4.322E-01	4.583E-01	6.249E-01	6.796E-01	4.525E-01	4.093E-01	4.166E-01	4.348E-01
I-125	1.731E-01	2.522E-01	4.160E-01	2.840E-02	7.790E-02	1.615E-01	1.355E-01	8.655E-02	5.598E-02	5.598E-02	1.332E-01
I-129	2.177E-01	3.133E-01	4.759E-01	4.184E-02	1.103E-01	2.221E-01	1.941E-01	1.242E-01	7.742E-02	8.825E-02	1.815E-01
I-130	5.918E-01	6.973E-01	6.368E-01	5.341E-01	5.220E-01	6.550E-01	5.925E-01	5.260E-01	4.821E-01	4.877E-01	5.119E-01
I-131	5.815E-01	6.827E-01	6.576E-01	5.208E-01	5.060E-01	6.382E-01	6.223E-01	5.037E-01	4.604E-01	4.696E-01	4.889E-01
I-132	5.999E-01	7.064E-01	6.388E-01	5.411E-01	5.317E-01	6.670E-01	5.918E-01	5.366E-01	4.923E-01	4.979E-01	5.242E-01
I-133	5.837E-01	6.883E-01	6.323E-01	5.253E-01	5.154E-01	6.423E-01	5.912E-01	5.162E-01	4.727E-01	4.806E-01	5.033E-01
I-134	6.059E-01	7.117E-01	6.430E-01	5.465E-01	5.383E-01	6.741E-01	5.923E-01	5.445E-01	5.010E-01	5.056E-01	5.317E-01
I-135	6.104E-01	7.162E-01	6.454E-01	5.501E-01	5.446E-01	6.753E-01	5.855E-01	5.511E-01	5.125E-01	5.147E-01	5.446E-01
IN-113M	5.694E-01	6.701E-01	6.451E-01	5.097E-01	4.947E-01	6.217E-01	6.066E-01	4.923E-01	4.499E-01	4.596E-01	4.780E-01
IN-115	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN-115M	5.611E-01	6.585E-01	6.532E-01	4.972E-01	4.839E-01	6.135E-01	6.109E-01	4.802E-01	4.385E-01	4.469E-01	4.654E-01
IR-192	5.834E-01	6.858E-01	6.645E-01	5.189E-01	5.066E-01	6.380E-01	6.273E-01	5.041E-01	4.601E-01	4.700E-01	4.891E-01
K-40	5.985E-01	7.003E-01	6.316E-01	5.410E-01	5.355E-01	6.618E-01	5.684E-01	5.421E-01	5.053E-01	5.080E-01	5.355E-01
KR-83M	2.412E-02	1.953E-02	1.195E-01	1.049E-03	3.044E-03	3.868E-03	5.055E-03	1.873E-03	1.038E-03	7.084E-04	1.312E-03
KR-85	5.799E-01	6.856E-01	6.333E-01	5.229E-01	5.093E-01	6.333E-01	5.965E-01	5.093E-01	4.652E-01	4.745E-01	4.958E-01
KR-85M	6.067E-01	7.068E-01	7.631E-01	4.928E-01	5.125E-01	6.870E-01	7.518E-01	5.057E-01	4.584E-01	4.674E-01	4.787E-01
KR-87	6.475E-01	7.564E-01	6.970E-01	5.889E-01	5.781E-01	6.970E-01	6.267E-01	5.803E-01	5.451E-01	5.457E-01	5.835E-01
KR-88	6.684E-01	7.783E-01	7.147E-01	6.073E-01	5.985E-01	7.169E-01	6.336E-01	6.046E-01	5.682E-01	5.700E-01	6.073E-01
KR-89	6.394E-01	7.467E-01	6.858E-01	5.805E-01	5.688E-01	6.929E-01	6.133E-01	5.758E-01	5.384E-01	5.407E-01	5.758E-01
KR-90	6.102E-01	7.159E-01	6.552E-01	5.471E-01	5.437E-01	6.720E-01	5.977E-01	5.464E-01	5.079E-01	5.099E-01	5.370E-01
LA-140	6.115E-01	7.163E-01	6.515E-01	5.534E-01	5.460E-01	6.700E-01	5.886E-01	5.501E-01	5.127E-01	5.164E-01	5.441E-01
LA-141	6.006E-01	7.035E-01	6.333E-01	5.419E-01	5.379E-01	6.644E-01	5.710E-01	5.437E-01	5.060E-01	5.088E-01	5.369E-01
LA-142	6.652E-01	7.758E-01	7.096E-01	6.071E-01	5.945E-01	7.127E-01	6.276E-01	6.014E-01	5.651E-01	5.661E-01	6.055E-01
MN-54	6.046E-01	7.110E-01	6.389E-01	5.461E-01	5.358E-01	6.749E-01	5.925E-01	5.441E-01	4.980E-01	5.028E-01	5.307E-01
MN-56	6.348E-01	7.432E-01	6.721E-01	5.758E-01	5.681E-01	6.950E-01	6.087E-01	5.727E-01	5.342E-01	5.377E-01	5.681E-01
MO-93	4.673E-02	5.482E-02	1.930E-01	3.123E-03	9.259E-03	1.488E-02	1.520E-02	5.621E-03	2.601E-03	1.626E-03	2.842E-03
MO-99	5.981E-01	7.035E-01	6.504E-01	5.332E-01	5.276E-01	6.672E-01	6.086E-01	5.304E-01	4.852E-01	4.913E-01	5.164E-01
N-13	5.800E-01	6.861E-01	6.353E-01	5.209E-01	5.082E-01	6.353E-01	5.972E-01	5.091E-01	4.652E-01	4.744E-01	4.955E-01
NA-22	5.880E-01	6.919E-01	6.292E-01	5.292E-01	5.214E-01	6.507E-01	5.802E-01	5.257E-01	4.853E-01	4.900E-01	5.155E-01
NA-24	6.683E-01	7.781E-01	7.127E-01	6.098E-01	5.974E-01	7.127E-01	6.244E-01	6.061E-01	5.708E-01	5.704E-01	6.119E-01
NB-93M	4.583E-02	5.364E-02	1.895E-01	3.062E-03	9.058E-03	1.457E-02	1.490E-02	5.506E-03	2.544E-03	1.594E-03	2.783E-03
NB-94	6.007E-01	7.071E-01	6.361E-01	5.406E-01	5.324E-01	6.716E-01	5.924E-01	5.395E-01	4.936E-01	4.996E-01	5.242E-01

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

FROG

NAME	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
NB-95	5.994E-01	7.075E-01	6.345E-01	5.402E-01	5.312E-01	6.682E-01	5.896E-01	5.369E-01	4.918E-01	4.969E-01	5.228E-01
NB-95M	5.400E-01	6.279E-01	6.661E-01	4.649E-01	4.575E-01	5.963E-01	6.252E-01	4.525E-01	4.123E-01	4.206E-01	4.353E-01
NB-97	5.942E-01	7.009E-01	6.367E-01	5.354E-01	5.257E-01	6.555E-01	5.939E-01	5.290E-01	4.840E-01	4.913E-01	5.147E-01
NB-97M	5.991E-01	7.038E-01	6.387E-01	5.406E-01	5.311E-01	6.683E-01	5.914E-01	5.367E-01	4.914E-01	4.974E-01	5.222E-01
ND-147	5.556E-01	6.663E-01	6.758E-01	4.432E-01	4.715E-01	6.223E-01	6.192E-01	4.689E-01	4.212E-01	4.369E-01	4.652E-01
NI-59	1.078E-02	5.641E-03	6.076E-02	2.016E-04	6.138E-04	3.878E-04	9.975E-04	3.770E-04	1.288E-04	7.548E-06	9.311E-07
NI-63	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI-65	6.000E-01	7.035E-01	6.340E-01	5.411E-01	5.364E-01	6.645E-01	5.739E-01	5.419E-01	5.038E-01	5.068E-01	5.341E-01
NP-237	4.264E-01	5.146E-01	6.383E-01	2.573E-01	3.383E-01	4.962E-01	5.758E-01	3.278E-01	2.863E-01	3.042E-01	3.213E-01
NP-238	6.026E-01	7.074E-01	6.353E-01	5.424E-01	5.362E-01	6.764E-01	5.826E-01	5.442E-01	5.002E-01	5.036E-01	5.315E-01
NP-239	5.763E-01	6.770E-01	7.421E-01	4.478E-01	4.843E-01	6.561E-01	7.238E-01	4.749E-01	4.291E-01	4.400E-01	4.530E-01
NP-240	5.916E-01	6.949E-01	6.429E-01	5.277E-01	5.203E-01	6.615E-01	5.983E-01	5.262E-01	4.809E-01	4.868E-01	5.128E-01
NP-240M	5.846E-01	6.879E-01	6.310E-01	5.263E-01	5.172E-01	6.452E-01	5.858E-01	5.193E-01	4.764E-01	4.836E-01	5.069E-01
O-15	5.800E-01	6.861E-01	6.353E-01	5.209E-01	5.082E-01	6.353E-01	5.972E-01	5.091E-01	4.653E-01	4.744E-01	4.955E-01
P-32	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PA-231	4.837E-01	5.680E-01	6.031E-01	4.073E-01	4.073E-01	5.306E-01	5.475E-01	4.037E-01	3.667E-01	3.747E-01	3.928E-01
PA-233	5.742E-01	6.733E-01	6.935E-01	4.847E-01	4.907E-01	6.388E-01	6.651E-01	4.855E-01	4.405E-01	4.522E-01	4.684E-01
PA-234	6.004E-01	7.052E-01	6.503E-01	5.338E-01	5.316E-01	6.700E-01	6.019E-01	5.352E-01	4.908E-01	4.965E-01	5.229E-01
PA-234M	6.044E-01	7.093E-01	6.451E-01	5.395E-01	5.357E-01	6.791E-01	5.961E-01	5.433E-01	4.980E-01	5.018E-01	5.282E-01
PB-209	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PB-210	1.884E-01	2.431E-01	3.609E-01	5.618E-02	1.232E-01	2.128E-01	2.280E-01	1.290E-01	9.002E-02	1.102E-01	1.469E-01
PB-211	5.928E-01	6.979E-01	6.420E-01	5.328E-01	5.226E-01	6.573E-01	6.005E-01	5.256E-01	4.811E-01	4.879E-01	5.116E-01
PB-212	5.846E-01	6.855E-01	7.334E-01	4.730E-01	4.939E-01	6.616E-01	7.095E-01	4.868E-01	4.389E-01	4.550E-01	4.700E-01
PB-214	5.813E-01	6.822E-01	6.787E-01	5.051E-01	5.016E-01	6.437E-01	6.489E-01	4.977E-01	4.525E-01	4.648E-01	4.823E-01
PD-107	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD-109	5.803E-01	6.852E-01	6.349E-01	5.224E-01	5.104E-01	6.349E-01	5.972E-01	5.096E-01	4.658E-01	4.752E-01	4.960E-01
PM-147	6.238E-01	7.319E-01	8.363E-01	4.475E-01	5.180E-01	7.280E-01	8.441E-01	5.078E-01	4.569E-01	4.684E-01	4.762E-01
PM-148	5.960E-01	6.996E-01	6.333E-01	5.378E-01	5.311E-01	6.594E-01	5.781E-01	5.358E-01	4.960E-01	5.005E-01	5.266E-01
PM-148M	5.909E-01	6.965E-01	6.381E-01	5.321E-01	5.213E-01	6.532E-01	5.948E-01	5.239E-01	4.798E-01	4.867E-01	5.105E-01
PM-149	5.845E-01	6.849E-01	6.737E-01	5.202E-01	5.053E-01	6.437E-01	6.400E-01	5.023E-01	4.596E-01	4.678E-01	4.865E-01
PM-151	5.820E-01	6.850E-01	6.746E-01	5.043E-01	5.030E-01	6.460E-01	6.343E-01	5.010E-01	4.557E-01	4.653E-01	4.874E-01
PO-210	6.010E-01	7.067E-01	6.360E-01	5.401E-01	5.351E-01	6.714E-01	5.906E-01	5.401E-01	4.958E-01	4.997E-01	5.250E-01
PO-211	5.991E-01	7.052E-01	6.386E-01	5.397E-01	5.309E-01	6.663E-01	5.942E-01	5.357E-01	4.909E-01	4.970E-01	5.220E-01
PO-212	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PO-213	6.017E-01	7.086E-01	6.381E-01	5.421E-01	5.336E-01	6.719E-01	5.915E-01	5.395E-01	4.938E-01	4.997E-01	5.251E-01
PO-214	6.013E-01	7.058E-01	6.389E-01	5.410E-01	5.358E-01	6.698E-01	5.925E-01	5.399E-01	4.938E-01	4.992E-01	5.255E-01
PO-215	5.786E-01	6.827E-01	6.420E-01	5.200E-01	5.055E-01	6.304E-01	6.071E-01	5.049E-01	4.619E-01	4.706E-01	4.909E-01
PO-216	6.023E-01	7.089E-01	6.377E-01	5.428E-01	5.339E-01	6.733E-01	5.903E-01	5.410E-01	4.954E-01	5.013E-01	5.280E-01
PO-218	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR-143	5.991E-01	7.050E-01	6.374E-01	5.408E-01	5.312E-01	6.664E-01	5.939E-01	5.360E-01	4.898E-01	4.974E-01	5.215E-01
PR-144	6.461E-01	7.549E-01	6.878E-01	5.870E-01	5.790E-01	6.999E-01	6.166E-01	5.825E-01	5.448E-01	5.481E-01	5.817E-01
PR-144M	2.862E-01	3.985E-01	5.528E-01	6.634E-02	1.650E-01	3.186E-01	2.965E-01	1.915E-01	1.195E-01	1.446E-01	2.539E-01
PU-236	4.270E-02	4.350E-02	1.589E-01	7.701E-03	1.529E-02	2.264E-02	2.756E-02	1.242E-02	9.901E-03	1.100E-02	1.194E-02

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

FROG

NAME	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
PU-238	3.609E-02	3.505E-02	1.500E-01	4.396E-03	9.776E-03	1.420E-02	1.737E-02	7.255E-03	5.546E-03	5.933E-03	6.671E-03
PU-239	8.067E-02	8.727E-02	2.014E-01	3.931E-02	4.878E-02	6.825E-02	8.056E-02	4.536E-02	4.068E-02	4.132E-02	4.199E-02
PU-240	3.720E-02	3.655E-02	1.520E-01	4.755E-03	1.054E-02	1.553E-02	1.879E-02	7.970E-03	6.107E-03	6.631E-03	7.537E-03
PU-241	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PU-242	3.799E-02	3.759E-02	1.528E-01	5.248E-03	1.127E-02	1.660E-02	2.014E-02	8.646E-03	6.710E-03	7.347E-03	8.164E-03
PU-243	5.630E-01	6.792E-01	7.958E-01	3.424E-01	4.609E-01	6.700E-01	7.829E-01	4.460E-01	3.872E-01	4.183E-01	4.312E-01
PU-244	3.250E-02	3.066E-02	1.456E-01	2.483E-03	6.468E-03	9.317E-03	1.113E-02	4.348E-03	3.007E-03	2.949E-03	4.007E-03
RA-223	5.842E-01	6.893E-01	7.420E-01	4.518E-01	4.947E-01	6.662E-01	7.255E-01	4.841E-01	4.353E-01	4.518E-01	4.650E-01
RA-224	5.877E-01	6.839E-01	7.145E-01	5.041E-01	4.997E-01	6.532E-01	6.882E-01	4.962E-01	4.506E-01	4.603E-01	4.778E-01
RA-225	2.989E-01	4.073E-01	5.588E-01	7.574E-02	1.818E-01	3.400E-01	3.296E-01	2.074E-01	1.325E-01	1.629E-01	2.609E-01
RA-226	5.942E-01	6.905E-01	7.563E-01	4.820E-01	5.005E-01	6.708E-01	7.365E-01	4.935E-01	4.469E-01	4.584E-01	4.709E-01
RA-228	1.026E-02	5.360E-03	5.788E-02	1.913E-04	5.847E-04	3.696E-04	9.484E-04	3.582E-04	1.222E-04	7.190E-06	8.866E-07
RB-86	6.039E-01	7.088E-01	6.361E-01	5.452E-01	5.361E-01	6.770E-01	5.815E-01	5.461E-01	5.025E-01	5.043E-01	5.361E-01
RB-87	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB-88	6.455E-01	7.513E-01	6.842E-01	5.876E-01	5.796E-01	6.976E-01	6.111E-01	5.859E-01	5.487E-01	5.507E-01	5.849E-01
RB-89	6.343E-01	7.424E-01	6.719E-01	5.744E-01	5.661E-01	6.947E-01	6.035E-01	5.736E-01	5.359E-01	5.371E-01	5.703E-01
RB-90	6.883E-01	8.027E-01	7.411E-01	6.338E-01	6.060E-01	7.252E-01	6.398E-01	6.227E-01	5.865E-01	5.841E-01	6.378E-01
RB-90M	6.563E-01	7.663E-01	7.008E-01	5.986E-01	5.842E-01	7.061E-01	6.196E-01	5.929E-01	5.562E-01	5.567E-01	5.960E-01
RE-187	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH-103M	7.610E-02	1.057E-01	2.526E-01	8.304E-03	2.357E-02	4.553E-02	3.980E-02	1.805E-02	1.334E-02	1.037E-02	2.577E-02
RH-105	5.822E-01	6.794E-01	6.738E-01	5.199E-01	5.031E-01	6.401E-01	6.457E-01	4.997E-01	4.562E-01	4.660E-01	4.835E-01
RH-105M	4.976E-01	5.855E-01	6.956E-01	3.563E-01	4.061E-01	5.672E-01	6.497E-01	3.961E-01	3.571E-01	3.642E-01	3.733E-01
RH-106	5.864E-01	6.919E-01	6.337E-01	5.278E-01	5.174E-01	6.462E-01	5.922E-01	5.195E-01	4.758E-01	4.841E-01	5.070E-01
RN-219	5.842E-01	6.844E-01	6.791E-01	5.150E-01	5.044E-01	6.432E-01	6.478E-01	5.007E-01	4.561E-01	4.670E-01	4.845E-01
RN-220	5.830E-01	6.881E-01	6.336E-01	5.254E-01	5.138E-01	6.394E-01	5.948E-01	5.140E-01	4.699E-01	4.791E-01	5.006E-01
RN-222	5.790E-01	6.834E-01	6.335E-01	5.214E-01	5.092E-01	6.335E-01	5.958E-01	5.086E-01	4.646E-01	4.748E-01	4.948E-01
RU-103	5.786E-01	6.828E-01	6.346E-01	5.203E-01	5.087E-01	6.319E-01	5.962E-01	5.078E-01	4.643E-01	4.739E-01	4.944E-01
RU-105	5.928E-01	6.975E-01	6.426E-01	5.327E-01	5.229E-01	6.591E-01	5.986E-01	5.256E-01	4.809E-01	4.877E-01	5.113E-01
RU-106	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU-97	5.659E-01	6.595E-01	6.926E-01	4.850E-01	4.813E-01	6.283E-01	6.577E-01	4.754E-01	4.339E-01	4.427E-01	4.574E-01
S-35	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB-124	6.138E-01	7.191E-01	6.548E-01	5.560E-01	5.468E-01	6.731E-01	5.950E-01	5.514E-01	5.123E-01	5.169E-01	5.445E-01
SB-125	5.734E-01	6.774E-01	6.363E-01	5.108E-01	5.018E-01	6.302E-01	5.921E-01	5.014E-01	4.578E-01	4.667E-01	4.887E-01
SB-126	5.935E-01	6.991E-01	6.381E-01	5.349E-01	5.239E-01	6.584E-01	5.943E-01	5.280E-01	4.829E-01	4.895E-01	5.145E-01
SB-126M	5.921E-01	6.975E-01	6.398E-01	5.327E-01	5.218E-01	6.563E-01	5.986E-01	5.251E-01	4.800E-01	4.888E-01	5.108E-01
SB-127	5.924E-01	6.990E-01	6.408E-01	5.324E-01	5.219E-01	6.532E-01	5.990E-01	5.247E-01	4.800E-01	4.873E-01	5.108E-01
SC-46	6.030E-01	7.091E-01	6.343E-01	5.425E-01	5.361E-01	6.770E-01	5.830E-01	5.446E-01	5.015E-01	5.040E-01	5.318E-01
SE-79	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM-147	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM-151	4.745E-02	6.327E-02	1.660E-01	4.530E-03	1.328E-02	2.609E-02	2.214E-02	1.051E-02	7.814E-03	5.155E-03	1.531E-02
SM-153	5.076E-01	6.308E-01	7.648E-01	2.756E-01	3.915E-01	6.005E-01	6.755E-01	3.895E-01	3.250E-01	3.529E-01	4.021E-01
SN-113	2.305E-01	2.965E-01	4.251E-01	1.327E-01	1.526E-01	2.260E-01	2.177E-01	1.502E-01	1.317E-01	1.284E-01	1.686E-01
SN-123	6.020E-01	7.078E-01	6.333E-01	5.414E-01	5.358E-01	6.767E-01	5.786E-01	5.440E-01	5.016E-01	5.041E-01	5.321E-01

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

FROG

NAME	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
SN-125	6.145E-01	7.207E-01	6.499E-01	5.550E-01	5.480E-01	6.825E-01	5.933E-01	5.542E-01	5.128E-01	5.154E-01	5.451E-01
SN-126	5.241E-01	6.410E-01	7.807E-01	2.908E-01	4.172E-01	6.245E-01	7.344E-01	4.033E-01	3.458E-01	3.750E-01	3.957E-01
SR-89	6.080E-01	7.156E-01	6.399E-01	5.485E-01	5.391E-01	6.809E-01	5.927E-01	5.479E-01	5.025E-01	5.075E-01	5.328E-01
SR-90	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR-91	6.016E-01	7.059E-01	6.372E-01	5.422E-01	5.347E-01	6.747E-01	5.878E-01	5.415E-01	4.973E-01	5.016E-01	5.285E-01
SR-92	5.963E-01	6.982E-01	6.309E-01	5.381E-01	5.317E-01	6.598E-01	5.701E-01	5.393E-01	5.009E-01	5.028E-01	5.317E-01
TB-160	6.000E-01	7.050E-01	6.452E-01	5.337E-01	5.297E-01	6.731E-01	5.935E-01	5.377E-01	4.947E-01	4.979E-01	5.258E-01
TC-101	5.842E-01	6.833E-01	6.732E-01	5.195E-01	5.055E-01	6.427E-01	6.401E-01	5.030E-01	4.590E-01	4.687E-01	4.864E-01
TC-97	5.259E-02	6.521E-02	2.078E-01	3.904E-03	1.154E-02	1.969E-02	1.898E-02	7.040E-03	3.697E-03	2.504E-03	5.225E-03
TC-99	6.103E-01	7.341E-01	8.659E-01	3.662E-01	4.997E-01	7.332E-01	8.721E-01	4.829E-01	4.214E-01	4.511E-01	4.617E-01
TC-99M	6.167E-01	7.195E-01	8.082E-01	4.714E-01	5.140E-01	7.089E-01	8.082E-01	5.062E-01	4.572E-01	4.679E-01	4.750E-01
TE-125M	1.785E-01	2.586E-01	4.208E-01	3.244E-02	8.291E-02	1.692E-01	1.440E-01	9.149E-02	6.028E-02	6.068E-02	1.380E-01
TE-127	5.823E-01	6.844E-01	6.565E-01	5.214E-01	5.079E-01	6.376E-01	6.223E-01	5.048E-01	4.612E-01	4.710E-01	4.899E-01
TE-127M	1.794E-01	2.584E-01	4.181E-01	3.623E-02	8.598E-02	1.702E-01	1.471E-01	9.305E-02	6.336E-02	6.372E-02	1.370E-01
TE-129	5.518E-01	6.535E-01	6.232E-01	4.877E-01	4.794E-01	6.035E-01	5.672E-01	4.794E-01	4.379E-01	4.460E-01	4.703E-01
TE-129M	5.179E-01	6.190E-01	5.955E-01	4.444E-01	4.455E-01	5.709E-01	5.093E-01	4.487E-01	4.084E-01	4.131E-01	4.467E-01
TE-131	5.956E-01	6.994E-01	6.745E-01	5.173E-01	5.194E-01	6.652E-01	6.383E-01	5.202E-01	4.759E-01	4.832E-01	5.038E-01
TE-131M	6.033E-01	7.095E-01	6.461E-01	5.405E-01	5.344E-01	6.703E-01	5.978E-01	5.399E-01	4.958E-01	5.012E-01	5.284E-01
TE-132	5.577E-01	6.548E-01	7.011E-01	4.642E-01	4.680E-01	6.202E-01	6.529E-01	4.626E-01	4.191E-01	4.295E-01	4.507E-01
TE-133	5.989E-01	7.020E-01	6.509E-01	5.393E-01	5.300E-01	6.601E-01	6.044E-01	5.318E-01	4.909E-01	4.974E-01	5.207E-01
TE-133M	6.084E-01	7.143E-01	6.503E-01	5.474E-01	5.396E-01	6.774E-01	5.998E-01	5.451E-01	5.020E-01	5.066E-01	5.338E-01
TE-134	5.906E-01	6.962E-01	6.564E-01	5.222E-01	5.172E-01	6.564E-01	6.166E-01	5.172E-01	4.722E-01	4.809E-01	5.023E-01
TH-227	5.615E-01	6.598E-01	6.882E-01	4.696E-01	4.777E-01	6.274E-01	6.558E-01	4.704E-01	4.260E-01	4.372E-01	4.534E-01
TH-228	3.935E-01	4.633E-01	5.635E-01	2.673E-01	3.205E-01	4.526E-01	5.179E-01	3.117E-01	2.755E-01	2.916E-01	2.992E-01
TH-229	5.455E-01	6.471E-01	7.581E-01	3.660E-01	4.486E-01	6.374E-01	7.388E-01	4.366E-01	3.868E-01	4.066E-01	4.182E-01
TH-230	1.765E-01	2.071E-01	3.143E-01	9.477E-02	1.316E-01	1.930E-01	2.243E-01	1.264E-01	1.077E-01	1.182E-01	1.237E-01
TH-231	3.078E-01	3.731E-01	5.029E-01	1.681E-01	2.352E-01	3.508E-01	4.096E-01	2.263E-01	1.963E-01	2.089E-01	2.231E-01
TH-232	9.973E-02	1.138E-01	2.207E-01	4.324E-02	6.568E-02	9.831E-02	1.150E-01	6.233E-02	5.197E-02	5.793E-02	6.201E-02
TH-234	5.165E-01	6.253E-01	7.586E-01	2.927E-01	4.167E-01	6.202E-01	7.330E-01	4.023E-01	3.455E-01	3.757E-01	3.906E-01
TL-207	6.062E-01	7.126E-01	6.393E-01	5.463E-01	5.384E-01	6.809E-01	5.898E-01	5.463E-01	5.012E-01	5.047E-01	5.324E-01
TL-208	6.766E-01	7.884E-01	7.261E-01	6.180E-01	6.040E-01	7.185E-01	6.396E-01	6.106E-01	5.750E-01	5.760E-01	6.167E-01
TL-209	6.031E-01	7.071E-01	6.522E-01	5.384E-01	5.364E-01	6.644E-01	5.953E-01	5.392E-01	5.019E-01	5.059E-01	5.323E-01
U-232	9.632E-02	1.087E-01	2.191E-01	4.504E-02	6.206E-02	9.062E-02	1.049E-01	5.849E-02	5.014E-02	5.410E-02	5.739E-02
U-233	2.100E-01	2.408E-01	3.508E-01	1.348E-01	1.610E-01	2.274E-01	2.663E-01	1.562E-01	1.399E-01	1.436E-01	1.462E-01
U-234	6.693E-02	7.307E-02	1.837E-01	2.478E-02	3.687E-02	5.447E-02	6.377E-02	3.390E-02	2.861E-02	3.102E-02	3.354E-02
U-235	5.931E-01	6.898E-01	7.542E-01	4.794E-01	4.998E-01	6.723E-01	7.395E-01	4.922E-01	4.461E-01	4.560E-01	4.677E-01
U-236	5.714E-02	6.092E-02	1.717E-01	1.666E-02	2.896E-02	4.336E-02	5.232E-02	2.604E-02	2.133E-02	2.401E-02	2.530E-02
U-237	5.566E-01	6.620E-01	7.534E-01	3.941E-01	4.603E-01	6.431E-01	7.251E-01	4.483E-01	3.985E-01	4.161E-01	4.319E-01
U-238	5.557E-02	5.892E-02	1.703E-01	1.552E-02	2.751E-02	4.145E-02	4.958E-02	2.468E-02	2.006E-02	2.267E-02	2.406E-02
U-240	6.939E-02	8.172E-02	2.036E-01	1.386E-02	3.218E-02	5.523E-02	5.837E-02	3.165E-02	2.187E-02	2.627E-02	3.692E-02
W-181	5.001E-01	6.339E-01	7.838E-01	2.086E-01	3.843E-01	6.104E-01	7.077E-01	3.780E-01	2.924E-01	3.468E-01	3.855E-01
W-185	6.241E-01	7.312E-01	8.320E-01	4.544E-01	5.193E-01	7.261E-01	8.388E-01	5.091E-01	4.592E-01	4.698E-01	4.766E-01
W-187	5.869E-01	6.942E-01	6.488E-01	5.143E-01	5.152E-01	6.524E-01	6.088E-01	5.156E-01	4.694E-01	4.798E-01	5.025E-01

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

FROG

NAME	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
XE-122	4.742E-01	5.719E-01	6.151E-01	3.779E-01	3.892E-01	5.175E-01	5.169E-01	3.862E-01	3.470E-01	3.554E-01	3.909E-01
XE-123	5.874E-01	6.893E-01	6.604E-01	5.156E-01	5.149E-01	6.493E-01	6.101E-01	5.152E-01	4.738E-01	4.805E-01	5.046E-01
XE-125	5.525E-01	6.510E-01	6.823E-01	4.610E-01	4.659E-01	6.146E-01	6.278E-01	4.629E-01	4.200E-01	4.279E-01	4.527E-01
XE-127	5.587E-01	6.558E-01	6.988E-01	4.648E-01	4.696E-01	6.224E-01	6.542E-01	4.651E-01	4.221E-01	4.313E-01	4.520E-01
XE-131M	2.713E-01	3.643E-01	5.105E-01	1.148E-01	1.692E-01	2.852E-01	2.732E-01	1.761E-01	1.355E-01	1.431E-01	2.190E-01
XE-133	4.753E-01	5.943E-01	7.387E-01	2.390E-01	3.647E-01	5.631E-01	6.472E-01	3.574E-01	2.963E-01	3.273E-01	3.667E-01
XE-133M	4.357E-01	5.313E-01	6.121E-01	3.243E-01	3.431E-01	4.759E-01	4.848E-01	3.407E-01	3.019E-01	3.099E-01	3.553E-01
XE-135	5.862E-01	6.833E-01	6.974E-01	5.138E-01	5.014E-01	6.497E-01	6.692E-01	4.979E-01	4.541E-01	4.644E-01	4.802E-01
XE-135M	5.776E-01	6.824E-01	6.322E-01	5.188E-01	5.078E-01	6.322E-01	5.921E-01	5.074E-01	4.634E-01	4.727E-01	4.948E-01
XE-137	5.881E-01	6.915E-01	6.433E-01	5.307E-01	5.192E-01	6.433E-01	5.996E-01	5.183E-01	4.760E-01	4.847E-01	5.077E-01
XE-138	6.407E-01	7.475E-01	6.903E-01	5.797E-01	5.721E-01	6.941E-01	6.255E-01	5.751E-01	5.400E-01	5.415E-01	5.721E-01
Y-90	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y-90M	5.825E-01	6.839E-01	6.661E-01	5.142E-01	5.059E-01	6.408E-01	6.333E-01	5.031E-01	4.591E-01	4.690E-01	4.875E-01
Y-91	5.967E-01	7.008E-01	6.273E-01	5.372E-01	5.324E-01	6.664E-01	5.716E-01	5.398E-01	4.995E-01	5.028E-01	5.301E-01
Y-91M	5.829E-01	6.882E-01	6.330E-01	5.249E-01	5.135E-01	6.403E-01	5.932E-01	5.143E-01	4.705E-01	4.794E-01	5.005E-01
Y-92	6.029E-01	7.078E-01	6.379E-01	5.441E-01	5.373E-01	6.720E-01	5.850E-01	5.427E-01	5.008E-01	5.049E-01	5.322E-01
Y-93	6.247E-01	7.292E-01	6.760E-01	5.650E-01	5.553E-01	6.857E-01	6.181E-01	5.582E-01	5.202E-01	5.215E-01	5.505E-01
ZN-65	5.974E-01	7.012E-01	6.291E-01	5.380E-01	5.321E-01	6.688E-01	5.747E-01	5.399E-01	4.980E-01	5.012E-01	5.284E-01
ZN-69	5.804E-01	6.830E-01	6.496E-01	5.222E-01	5.070E-01	6.337E-01	6.142E-01	5.042E-01	4.608E-01	4.708E-01	4.896E-01
ZN-69M	5.783E-01	6.813E-01	6.428E-01	5.201E-01	5.066E-01	6.314E-01	6.075E-01	5.041E-01	4.608E-01	4.702E-01	4.899E-01
ZR-93	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR-95	5.990E-01	7.073E-01	6.371E-01	5.389E-01	5.302E-01	6.664E-01	5.904E-01	5.353E-01	4.900E-01	4.957E-01	5.208E-01
ZZ-999	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

DCF-INHALATION (REM/MICROCI)

NAME	RESP	GIABS	SIZE MICRONS	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
AC-225	D	.0010	1.0	7.424E+00	6.072E-02	6.036E-02	9.867E+00	4.299E+00	5.923E-02	1.224E+02	6.755E+00	1.352E-01	3.334E+01	1.582E-02
	W	.0010	1.0	6.429E+00	1.963E-02	1.805E-02	1.656E+00	4.366E+01	1.728E-02	2.046E+01	1.231E+00	2.135E-01	5.577E+00	6.176E-03
	* Y	.0010	1.0	6.147E+00	1.054E-02	8.691E-03	1.038E-01	5.031E+01	7.987E-03	1.211E+00	1.873E-01	2.283E-01	3.319E-01	3.237E-03
AC-227	D	.0010	1.0	2.072E+03	4.694E+02	1.134E-01	2.885E+03	2.332E-01	6.954E-02	3.614E+04	1.746E+03	1.194E-01	8.730E+03	2.193E-01
	W	.0010	1.0	5.369E+02	1.182E+02	9.867E-02	7.271E+02	1.248E+02	8.747E-02	9.108E+03	4.397E+02	2.033E-01	2.198E+03	1.188E-01
	* Y	.0010	1.0	6.405E+02	4.201E+01	3.590E-01	2.616E+02	3.774E+03	3.516E-01	3.274E+03	1.584E+02	1.266E+00	7.881E+02	3.245E-01
AC-228	D	.0010	.3	1.348E-01	4.514E-03	4.523E-03	2.554E-01	8.458E-03	4.513E-03	3.144E+00	2.308E-02	4.775E-03	9.653E-02	4.484E-03
	D	.0010	1.0	1.146E-01	3.556E-03	3.509E-03	2.143E-01	5.885E-03	3.491E-03	2.641E+00	2.493E-02	4.533E-03	1.074E-01	3.481E-03
	D	.0010	3.0	1.191E-01	3.388E-03	3.271E-03	2.195E-01	4.669E-03	3.242E-03	2.706E+00	3.184E-02	5.337E-03	1.397E-01	3.249E-03
	W	.0010	.3	5.236E-02	1.239E-03	1.240E-03	6.348E-02	1.596E-01	1.230E-03	7.804E-01	5.484E-03	1.920E-03	2.044E-02	1.306E-03
	W	.0010	1.0	4.455E-02	1.177E-03	1.144E-03	6.276E-02	9.406E-02	1.128E-03	7.722E-01	6.875E-03	2.248E-03	2.643E-02	1.181E-03
	W	.0010	3.0	4.520E-02	1.336E-03	1.261E-03	7.285E-02	5.178E-02	1.237E-03	8.967E-01	9.277E-03	3.037E-03	3.588E-02	1.280E-03
	Y	.0010	.3	1.481E-01	5.524E-04	5.420E-04	1.498E-02	1.167E+00	5.280E-04	1.820E-01	1.907E-03	2.199E-03	2.541E-03	9.684E-04

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

DCF-INHALATION (REM/MICROCI)

NAME	RESP	GIABS	SIZE MICRONS	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
	* Y	.0010	1.0	8.687E-02	4.184E-04	3.703E-04	1.073E-02	6.745E-01	3.515E-04	1.304E-01	1.875E-03	2.176E-03	2.551E-03	6.199E-04
	Y	.0010	3.0	4.708E-02	3.817E-04	2.877E-04	9.054E-03	3.488E-01	2.603E-04	1.100E-01	2.279E-03	2.624E-03	3.140E-03	4.220E-04
AG-109M	D	.0500	1.0	2.066E-07	4.712E-10	2.410E-09	2.152E-09	1.691E-06	7.267E-10	1.840E-09	9.441E-09	3.692E-10	2.230E-09	7.423E-10
	W	.0500	1.0	2.086E-07	1.552E-10	2.125E-09	1.848E-09	1.727E-06	4.146E-10	1.570E-09	2.384E-09	1.139E-10	2.245E-09	4.188E-10
	* Y	.0500	1.0	2.095E-07	2.740E-11	2.005E-09	1.720E-09	1.735E-06	2.859E-10	1.455E-09	2.430E-09	4.690E-11	2.245E-09	2.914E-10
AG-110	D	.0500	1.0	1.888E-06	2.692E-09	4.315E-09	4.192E-09	1.560E-05	4.210E-09	3.831E-09	4.825E-08	1.865E-09	3.374E-09	3.909E-09
	W	.0500	1.0	1.900E-06	9.671E-10	2.598E-09	2.486E-09	1.581E-05	2.503E-09	2.124E-09	6.762E-09	7.385E-10	3.328E-09	2.170E-09
	* Y	.0500	1.0	1.905E-06	2.645E-10	1.896E-09	1.788E-09	1.585E-05	1.801E-09	1.425E-09	6.940E-09	3.919E-10	3.308E-09	1.467E-09
AG-110M	D	.0500	1.0	3.966E-02	1.166E-02	1.633E-02	1.508E-02	3.030E-02	7.948E-03	1.010E-02	9.438E-02	2.095E-02	3.010E-01	4.179E-02
	W	.0500	1.0	3.099E-02	8.581E-03	1.120E-02	1.080E-02	1.168E-01	7.967E-03	7.607E-03	3.793E-02	1.846E-02	9.516E-02	1.704E-02
	* Y	.0500	1.0	8.014E-02	9.072E-03	2.646E-02	2.511E-02	4.401E-01	2.380E-02	1.921E-02	5.596E-02	1.912E-02	6.674E-02	2.310E-02
AG-111	D	.0500	1.0	3.403E-03	2.919E-04	2.901E-04	2.936E-04	4.071E-03	2.762E-04	2.813E-04	9.153E-03	5.022E-03	3.243E-02	3.313E-04
	W	.0500	1.0	6.185E-03	9.938E-05	7.392E-05	7.902E-05	3.167E-02	6.438E-05	6.880E-05	7.786E-03	1.235E-02	6.639E-03	7.991E-05
	* Y	.0500	1.0	6.554E-03	6.449E-05	3.338E-05	3.884E-05	3.523E-02	2.469E-05	2.900E-05	7.666E-03	1.397E-02	1.854E-03	3.299E-05
AM-241	* W	.0010	1.0	5.428E+02	1.212E+02	1.176E+01	7.663E+02	8.048E+01	1.175E+01	9.448E+03	4.177E+02	1.176E+01	2.041E+03	1.177E+01
	Y	.0010	1.0	3.557E+02	4.599E+01	4.520E+00	2.944E+02	1.252E+03	4.517E+00	3.630E+03	1.631E+02	4.565E+00	7.973E+02	4.522E+00
AM-242	* W	.0010	1.0	6.034E-02	7.717E-03	1.064E-03	5.555E-02	1.661E-01	1.062E-03	6.827E-01	3.712E-02	2.720E-03	1.768E-01	1.063E-03
	Y	.0010	1.0	6.852E-02	9.258E-04	1.337E-04	6.390E-03	5.302E-01	1.317E-04	7.843E-02	5.067E-03	2.094E-03	1.945E-02	1.328E-04
AM-242M	* W	.0010	1.0	5.232E+02	1.192E+02	1.146E+01	7.504E+02	2.027E+01	1.146E+01	9.247E+03	4.047E+02	1.147E+01	1.978E+03	1.147E+01
	Y	.0010	1.0	2.956E+02	4.622E+01	4.602E+00	2.958E+02	7.448E+02	4.600E+00	3.645E+03	1.632E+02	4.715E+00	7.973E+02	4.603E+00
AM-243	* W	.0010	1.0	5.422E+02	1.207E+02	1.182E+01	7.654E+02	7.812E+01	1.179E+01	9.463E+03	4.159E+02	1.183E+01	2.032E+03	1.190E+01
	Y	.0010	1.0	3.530E+02	4.597E+01	4.570E+00	2.951E+02	1.224E+03	4.552E+00	3.648E+03	1.631E+02	4.763E+00	7.967E+02	4.595E+00
AR-41	*	.0000	.0	6.964E-07	2.946E-07	3.236E-07	3.083E-07	3.443E-06	3.465E-07	2.551E-07	3.532E-07	1.810E-07	3.447E-07	3.373E-07
AS-76	W	.5000	1.0	4.538E-03	2.893E-04	2.221E-04	2.272E-04	2.502E-02	2.031E-04	1.919E-04	4.636E-03	8.093E-03	5.384E-04	6.012E-04
AT-217	* D	.9500	1.0	3.146E-07	7.670E-10	7.861E-10	6.166E-10	2.610E-06	7.412E-10	4.647E-10	3.278E-09	1.619E-09	2.664E-10	5.736E-09
	W	.9500	1.0	3.193E-07	2.313E-10	3.393E-10	2.875E-10	2.657E-06	2.988E-10	2.212E-10	9.767E-10	4.289E-10	2.760E-10	1.739E-09
BA-133	D	.1000	1.0	9.103E-03	4.736E-03	5.232E-03	2.640E-02	5.844E-03	4.965E-03	4.078E-02	6.306E-03	5.301E-03	3.780E-03	4.628E-03
BA-133M	D	.1000	1.0	6.444E-04	9.069E-05	6.197E-05	2.810E-04	1.979E-03	5.781E-05	4.256E-04	1.089E-03	2.000E-03	6.252E-05	6.034E-05
BA-137M	D	.1000	1.0	1.125E-06	5.090E-08	2.361E-07	2.177E-07	7.201E-06	2.200E-07	1.647E-07	5.841E-07	7.485E-08	3.990E-07	2.010E-07
BA-139	D	.1000	1.0	1.955E-04	1.240E-05	1.212E-05	1.457E-05	1.112E-03	1.208E-05	9.362E-06	1.826E-04	1.659E-04	1.238E-05	1.217E-05
BA-140	D	.1000	1.0	4.168E-03	1.480E-03	1.162E-03	5.207E-03	6.422E-03	1.034E-03	8.953E-03	6.428E-03	8.931E-03	5.197E-03	1.396E-03
BA-141		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA-142		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE-10		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE-7	W	.0050	1.0	2.397E-04	1.387E-04	1.194E-04	1.725E-04	8.134E-04	1.004E-04	1.506E-04	2.041E-04	1.928E-04	1.629E-04	1.005E-04
	* Y	.0050	1.0	3.257E-04	1.194E-04	1.435E-04	1.502E-04	1.399E-03	1.167E-04	1.117E-04	2.716E-04	1.868E-04	2.401E-04	1.151E-04
BI-210	D	.0500	.3	1.561E-01	1.177E-02	1.177E-02	1.763E-02	2.633E-02	1.177E-02	1.201E-01	4.739E-01	1.321E-02	3.455E-02	2.020E+00
		.0500	.0	1.309E-01	9.017E-03	9.017E-03	1.350E-02	1.750E-02	9.017E-03	9.177E-02	4.018E-01	1.403E-02	2.267E-02	1.781E+00
	D	.0500	3.0	1.342E-01	8.281E-03	8.281E-03	1.238E-02	1.278E-02	8.281E-03	8.400E-02	4.170E-01	1.816E-02	1.615E-02	1.925E+00
	W	.0500	.3	2.872E-01	7.548E-03	7.548E-03	1.134E-02	1.898E+00	7.548E-03	7.782E-02	1.748E-01	1.671E-02	3.583E-02	4.502E-01
	W	.0500	1.0	1.830E-01	5.525E-03	5.525E-03	8.294E-03	1.099E+00	5.525E-03	5.683E-02	1.534E-01	1.831E-02	2.392E-02	4.722E-01
	W	.0500	3.0	1.218E-01	4.729E-03	4.729E-03	7.092E-03	5.725E-01	4.729E-03	4.847E-02	1.624E-01	2.414E-02	1.770E-02	5.753E-01

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

DCF-INHALATION (REM/MICROCI)

NAME	RESP	GIABS	SIZE MICRONS	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
	Y	.0500	.3	7.164E-01	2.508E-03	2.508E-03	3.768E-03	5.805E+00	2.508E-03	2.587E-02	5.833E-02	1.256E-02	1.223E-02	1.294E-01
	Y	.0500	1.0	4.205E-01	1.982E-03	1.982E-03	2.976E-03	3.350E+00	1.982E-03	2.041E-02	5.579E-02	1.651E-02	8.997E-03	1.434E-01
	Y	.0500	3.0	2.286E-01	1.927E-03	1.927E-03	2.891E-03	1.725E+00	1.927E-03	1.979E-02	6.606E-02	2.407E-02	7.936E-03	1.896E-01
	D	.0500	.3	1.836E-02	8.806E-04	8.806E-04	1.312E-03	1.544E-02	8.806E-04	8.170E-03	5.243E-02	2.362E-03	8.790E-04	2.548E-01
	D	.0500	1.0	1.585E-02	7.542E-04	7.542E-04	1.124E-03	9.243E-03	7.542E-04	6.964E-03	4.691E-02	5.802E-03	7.534E-04	2.184E-01
	D	.0500	3.0	1.683E-02	7.910E-04	7.910E-04	1.179E-03	5.297E-03	7.910E-04	7.265E-03	5.164E-02	1.070E-02	7.906E-04	2.292E-01
	W	.0500	.3	3.350E-01	2.881E-04	2.881E-04	4.275E-04	2.735E+00	2.881E-04	2.804E-03	2.155E-02	9.384E-03	2.857E-04	8.285E-02
	* W	.0500	1.0	1.962E-01	2.489E-04	2.489E-04	3.699E-04	1.581E+00	2.489E-04	2.376E-03	2.121E-02	1.301E-02	2.475E-04	7.176E-02
	W	.0500	3.0	1.059E-01	2.572E-04	2.572E-04	3.828E-04	8.176E-01	2.572E-04	2.408E-03	2.521E-02	1.968E-02	2.564E-04	7.433E-02
	Y	.0500	.3	1.036E+00	5.558E-05	5.558E-05	8.253E-05	8.614E+00	5.558E-05	5.367E-04	8.376E-03	9.883E-03	5.520E-05	1.600E-02
	Y	.0500	1.0	5.995E-01	5.961E-05	5.961E-05	8.865E-05	4.967E+00	5.961E-05	5.649E-04	1.101E-02	1.447E-02	5.934E-05	1.720E-02
	Y	.0500	3.0	3.112E-01	7.706E-05	7.706E-05	1.147E-04	2.553E+00	7.706E-05	7.207E-04	1.605E-02	2.217E-02	7.684E-05	2.228E-02
BI-211	D	.0500	1.0	1.045E-03	6.682E-06	6.695E-06	4.736E-06	8.626E-03	6.692E-06	2.625E-06	2.230E-05	6.686E-06	2.981E-07	7.384E-05
	* W	.0500	1.0	1.108E-03	2.016E-06	2.030E-06	1.440E-06	9.209E-03	2.026E-06	8.010E-07	6.237E-06	1.995E-06	1.104E-07	2.227E-05
BI-212	D	.0500	.3	3.030E-02	4.124E-04	4.174E-04	4.561E-04	2.182E-01	4.154E-04	2.159E-03	1.272E-02	4.759E-04	2.288E-04	6.150E-02
	D	.0500	1.0	2.532E-02	6.776E-04	6.766E-04	7.402E-04	1.546E-01	6.734E-04	3.524E-03	2.095E-02	9.031E-04	3.635E-04	1.005E-01
	D	.0500	3.0	2.598E-02	1.068E-03	1.060E-03	1.160E-03	1.275E-01	1.055E-03	5.533E-03	3.304E-02	1.514E-03	5.655E-04	1.579E-01
	W	.0500	.3	3.371E-02	1.325E-04	1.397E-04	1.517E-04	2.699E-01	1.380E-04	6.919E-04	4.064E-03	1.609E-04	8.485E-05	1.956E-02
	* W	.0500	1.0	3.447E-02	1.933E-04	1.996E-04	2.173E-04	2.713E-01	1.976E-04	1.005E-03	5.944E-03	2.550E-04	1.166E-04	2.850E-02
	W	.0500	3.0	4.317E-02	2.768E-04	2.839E-04	3.092E-04	3.368E-01	2.811E-04	1.435E-03	8.521E-03	3.850E-04	1.639E-04	4.074E-02
BI-213	D	.0500	1.0	9.700E-04	3.628E-05	3.751E-05	3.975E-05	5.891E-03	3.243E-05	1.053E-04	7.982E-04	1.116E-04	3.209E-05	3.189E-03
	* W	.0500	1.0	1.264E-03	1.134E-05	2.038E-05	2.079E-05	9.867E-03	1.658E-05	3.788E-05	2.322E-04	2.899E-05	2.616E-05	9.245E-04
BI-214	D	.0500	.3	1.024E-02	1.210E-04	1.235E-04	1.507E-04	7.954E-02	1.229E-04	8.211E-04	1.992E-03	1.274E-04	4.741E-05	9.352E-03
	D	.0500	1.0	9.118E-03	2.140E-04	2.156E-04	2.265E-04	6.586E-02	2.146E-04	9.922E-04	3.556E-03	2.363E-04	7.086E-05	1.653E-02
	D	.0500	3.0	1.005E-02	3.457E-04	3.466E-04	3.447E-04	6.740E-02	3.450E-04	1.359E-03	5.766E-03	3.898E-04	1.077E-04	2.668E-02
	W	.0500	.3	1.115E-02	4.379E-05	4.687E-05	5.933E-05	9.084E-02	4.629E-05	3.320E-04	7.160E-04	4.537E-05	2.243E-05	3.361E-03
	* W	.0500	1.0	1.164E-02	6.347E-05	6.661E-05	7.684E-05	9.397E-02	6.597E-05	3.835E-04	1.042E-03	6.665E-05	2.784E-05	4.887E-03
	W	.0500	3.0	1.479E-02	9.055E-05	9.449E-05	1.052E-04	1.189E-01	9.364E-05	4.985E-04	1.491E-03	9.602E-05	3.762E-05	6.976E-03
BR-82	* D	.9500	1.0	1.235E-03	8.283E-04	1.034E-03	9.549E-04	2.989E-03	1.151E-03	6.245E-04	1.153E-03	7.836E-04	1.103E-03	1.116E-03
	W	.9500	1.0	1.805E-03	6.285E-04	9.479E-04	8.822E-04	7.916E-03	9.932E-04	6.060E-04	1.339E-03	7.705E-04	1.198E-03	9.533E-04
BR-83		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR-84		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR-85		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
C-11	D	.9500	1.0	3.042E-05	2.501E-06	4.371E-06	4.153E-06	1.882E-04	3.860E-06	3.150E-06	1.949E-05	4.003E-06	6.072E-06	4.548E-06
C-14	*	.9500	.0	1.221E-05	5.420E-06	1.410E-05	2.420E-05	6.180E-06	6.480E-06	5.080E-05	1.127E-05	7.060E-06	8.880E-06	7.920E-06
C-15	D	.9500	1.0	4.963E-07	2.772E-09	1.368E-08	1.275E-08	4.017E-06	1.197E-08	1.018E-08	3.094E-08	5.592E-09	2.620E-08	1.564E-08
CA-41		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD-113		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD-113M		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD-115	D	.0500	1.0	3.957E-03	5.282E-04	4.229E-04	5.604E-04	4.489E-03	3.483E-04	3.950E-04	1.044E-02	5.426E-03	6.076E-03	3.206E-02
	W	.0500	1.0	4.605E-03	4.868E-04	1.923E-04	2.605E-04	1.785E-02	1.244E-04	1.592E-04	7.574E-03	1.154E-02	1.389E-03	6.636E-03
	* Y	.0500	1.0	4.681E-03	5.017E-04	1.435E-04	1.928E-04	1.881E-02	7.521E-05	1.059E-04	7.491E-03	1.342E-02	4.821E-04	1.782E-03

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

DCF-INHALATION (REM/MICROCI)

NAME	RESP	GIABS	SIZE MICRONS	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
CD-115M	D	.0500	1.0	7.254E-02	6.051E-03	6.065E-03	6.088E-03	1.291E-02	6.013E-03	6.001E-03	2.249E-01	1.237E-02	1.607E-01	9.285E-01
	W	.0500	1.0	4.172E-02	1.463E-03	1.461E-03	1.467E-03	1.768E-01	1.444E-03	1.437E-03	6.551E-02	2.752E-02	3.796E-02	2.190E-01
	* Y	.0500	1.0	4.368E-02	4.091E-04	4.173E-04	4.183E-04	2.924E-01	4.085E-04	3.993E-04	2.785E-02	2.861E-02	9.824E-03	5.630E-02
CE-141	W	.0003	1.0	8.531E-03	3.155E-04	2.752E-04	1.571E-03	4.263E-02	1.887E-04	1.495E-02	8.841E-03	8.084E-03	1.300E-02	3.646E-04
	* Y	.0003	1.0	9.155E-03	2.090E-04	1.689E-04	3.390E-04	6.314E-02	9.707E-05	1.002E-03	4.754E-03	8.565E-03	9.872E-04	1.217E-04
CE-143	W	.0003	1.0	3.509E-03	2.697E-04	9.447E-05	3.148E-04	1.527E-02	5.476E-05	3.101E-04	5.157E-03	8.620E-03	2.011E-03	2.220E-04
	* Y	.0003	1.0	3.717E-03	2.868E-04	7.206E-05	1.235E-04	1.659E-02	3.032E-05	7.109E-05	5.421E-03	1.006E-02	2.070E-04	7.314E-05
CE-144	W	.0003	1.0	2.178E-01	7.390E-03	7.573E-03	9.982E-02	6.863E-01	7.287E-03	1.738E-01	3.834E-01	7.136E-02	9.464E-01	8.316E-03
	* Y	.0003	1.0	3.750E-01	9.092E-04	1.317E-03	1.074E-02	2.928E+00	1.110E-03	1.803E-02	7.123E-02	7.035E-02	9.620E-02	1.185E-03
CF-252	W	.0010	1.0	1.240E+02	2.035E+01	2.748E+00	1.471E+02	1.431E+02	2.475E+00	1.813E+03	9.746E+01	2.767E+00	4.748E+02	3.146E+00
	* Y	.0010	1.0	1.549E+02	4.065E+00	8.919E-01	2.949E+01	1.112E+03	6.707E-01	3.606E+02	1.980E+01	7.475E-01	9.454E+01	7.990E-01
CM-242	* W	.0010	1.0	1.794E+01	2.107E+00	2.368E-01	1.514E+01	5.830E+01	2.368E-01	1.865E+02	9.875E+00	2.984E-01	4.827E+01	2.368E-01
	Y	.0010	1.0	2.368E+01	2.751E-01	3.407E-02	1.904E+00	1.860E+02	3.404E-02	2.343E+01	1.212E+00	9.778E-02	5.761E+00	3.404E-02
CM-243	* W	.0010	1.0	3.631E+02	7.712E+01	7.748E+00	5.018E+02	8.015E+01	7.737E+00	6.225E+03	2.860E+02	7.773E+00	1.399E+03	7.774E+00
	Y	.0010	1.0	2.610E+02	2.779E+01	2.819E+00	1.822E+02	1.103E+03	2.813E+00	2.260E+03	1.049E+02	2.875E+00	5.128E+02	2.826E+00
CM-244	* W	.0010	1.0	2.870E+02	5.924E+01	6.037E+00	3.922E+02	7.813E+01	6.036E+00	4.867E+03	2.289E+02	6.067E+00	1.120E+03	6.037E+00
	Y	.0010	1.0	2.186E+02	2.057E+01	2.108E+00	1.369E+02	1.013E+03	2.107E+00	1.699E+03	8.043E+01	2.166E+00	3.936E+02	2.107E+00
CM-245	* W	.0010	1.0	5.603E+02	1.252E+02	1.217E+01	7.909E+02	7.946E+01	1.216E+01	9.793E+03	4.286E+02	1.216E+01	2.094E+03	1.220E+01
	Y	.0010	1.0	3.627E+02	4.777E+01	4.719E+00	3.057E+02	1.242E+03	4.712E+00	3.785E+03	1.685E+02	4.756E+00	8.236E+02	4.729E+00
CM-246	* W	.0010	1.0	5.551E+02	1.243E+02	1.206E+01	7.839E+02	8.002E+01	1.204E+01	9.687E+03	4.252E+02	1.206E+01	2.078E+03	1.208E+01
	Y	.0010	1.0	3.615E+02	4.730E+01	4.654E+00	3.022E+02	1.255E+03	4.645E+00	3.734E+03	1.667E+02	4.692E+00	8.146E+02	4.661E+00
CM-247	* W	.0010	1.0	5.087E+02	1.135E+02	1.115E+01	7.186E+02	7.337E+01	1.111E+01	8.876E+03	3.900E+02	1.115E+01	1.905E+03	1.125E+01
	Y	.0010	1.0	3.312E+02	4.323E+01	4.318E+00	2.771E+02	1.148E+03	4.299E+00	3.422E+03	1.529E+02	4.370E+00	7.471E+02	4.353E+00
CM-248	* W	.0010	1.0	2.041E+03	4.541E+02	5.431E+01	2.878E+03	2.984E+02	4.895E+01	3.545E+04	1.579E+03	5.147E+01	7.649E+03	6.294E+01
	Y	.0010	1.0	1.325E+03	1.730E+02	2.281E+01	1.111E+03	4.569E+03	1.984E+01	1.367E+04	6.207E+02	2.033E+01	3.001E+03	2.528E+01
CO-57	W	.0500	1.0	2.649E-03	5.486E-04	6.256E-04	9.540E-04	1.522E-02	5.646E-04	5.766E-04	1.477E-03	1.612E-03	1.364E-03	5.611E-04
	* Y	.0500	1.0	9.090E-03	4.481E-04	1.401E-03	2.181E-03	6.261E-02	1.044E-03	1.632E-03	3.044E-03	1.614E-03	2.680E-03	9.658E-04
CO-58	W	.0500	1.0	6.448E-03	2.423E-03	2.408E-03	2.385E-03	2.993E-02	2.280E-03	1.633E-03	4.954E-03	5.146E-03	4.301E-03	2.182E-03
	* Y	.0500	1.0	1.099E-02	2.317E-03	3.531E-03	3.452E-03	5.978E-02	3.307E-03	2.550E-03	7.046E-03	5.323E-03	6.117E-03	2.835E-03
CO-60	W	.0500	1.0	3.292E-02	1.305E-02	1.700E-02	1.587E-02	1.351E-01	1.705E-02	1.109E-02	2.714E-02	2.064E-02	3.397E-02	1.797E-02
	* Y	.0500	1.0	2.184E-01	1.682E-02	6.894E-02	6.365E-02	1.275E+00	6.097E-02	4.910E-02	1.328E-01	2.991E-02	1.239E-01	5.807E-02
CR-51	D	.1000	1.0	1.049E-04	9.225E-05	8.195E-05	9.784E-05	1.510E-04	8.974E-05	5.020E-05	1.182E-04	1.399E-04	8.312E-05	8.461E-05
	W	.1000	1.0	2.666E-04	7.947E-05	5.927E-05	7.005E-05	1.440E-03	4.737E-05	4.299E-05	1.796E-04	2.605E-04	8.472E-05	5.121E-05
	* Y	.1000	1.0	3.405E-04	7.496E-05	6.091E-05	7.054E-05	2.020E-03	4.329E-05	4.682E-05	1.970E-04	2.738E-04	9.739E-05	4.850E-05
CS-134	D	.9500	1.0	4.512E-02	4.043E-02	4.738E-02	4.414E-02	4.355E-02	5.343E-02	2.941E-02	4.966E-02	2.999E-02	4.704E-02	5.141E-02
CS-134M	D	.9500	1.0	4.672E-05	1.246E-05	1.403E-05	1.420E-05	2.598E-04	1.481E-05	1.079E-05	2.616E-05	1.538E-05	1.418E-05	1.455E-05
CS-135	D	.9500	1.0	4.678E-03	4.586E-03	4.586E-03	4.586E-03	5.352E-03	4.586E-03	4.586E-03	4.586E-03	2.350E-03	4.586E-03	4.586E-03
CS-136	D	.9500	1.0	7.232E-03	6.252E-03	7.391E-03	6.900E-03	8.572E-03	9.099E-03	4.406E-03	7.661E-03	4.909E-03	7.424E-03	7.961E-03
CS-137	D	.9500	1.0	3.099E-02	2.925E-02	3.190E-02	2.901E-02	3.262E-02	3.378E-02	2.029E-02	3.291E-02	1.871E-02	3.184E-02	3.359E-02
CS-138	D	.9500	1.0	1.292E-04	1.193E-05	1.715E-05	1.627E-05	7.985E-04	1.572E-05	1.317E-05	8.326E-05	1.964E-05	2.195E-05	1.821E-05
CS-139		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU-64	D	.5000	1.0	1.944E-04	6.104E-05	5.059E-05	5.188E-05	7.497E-04	4.823E-05	4.069E-05	2.423E-04	3.546E-04	1.129E-04	5.438E-05

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

DCF-INHALATION (REM/MICROCI)

NAME	RESP	GIABS	SIZE MICRONS	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
	W	.5000	1.0	3.330E-04	4.578E-05	3.299E-05	3.434E-05	1.851E-03	2.829E-05	2.512E-05	2.956E-04	4.654E-04	6.554E-05	3.356E-05
	* Y	.5000	1.0	3.614E-04	4.712E-05	2.956E-05	3.128E-05	1.967E-03	2.390E-05	2.197E-05	3.465E-04	5.553E-04	5.593E-05	2.993E-05
EU-152	W	.0010	1.0	2.240E-01	4.905E-02	6.540E-02	2.967E-01	2.156E-01	3.100E-02	8.999E-01	3.750E-01	7.453E-02	1.303E+00	1.393E-01
EU-152M		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU-154	W	.0010	1.0	2.883E-01	4.377E-02	5.781E-02	3.953E-01	2.959E-01	2.665E-02	1.954E+00	4.211E-01	7.521E-02	1.594E+00	1.253E-01
EU-155	W	.0010	1.0	4.183E-02	1.332E-03	2.291E-03	5.335E-02	4.463E-02	8.960E-04	5.665E-01	4.124E-02	5.912E-03	1.801E-01	6.335E-03
EU-156	W	.0010	1.0	1.471E-02	2.329E-03	1.417E-03	4.315E-03	7.195E-02	8.640E-04	1.034E-02	1.474E-02	2.109E-02	1.373E-02	5.065E-03
F-18	* D	.9500	1.0	9.287E-05	1.048E-05	1.556E-05	1.025E-04	4.640E-04	1.358E-05	1.027E-04	5.480E-05	2.161E-05	1.911E-05	1.447E-05
	W	.9500	1.0	1.289E-04	4.883E-06	1.651E-05	4.293E-05	8.805E-04	1.466E-05	4.071E-05	4.240E-05	1.041E-05	2.657E-05	1.383E-05
	Y	.9500	1.0	1.371E-04	4.260E-06	1.675E-05	2.953E-05	9.544E-04	1.464E-05	2.664E-05	4.743E-05	1.149E-05	2.817E-05	1.420E-05
FE-55	D	.1000	1.0	2.745E-03	1.943E-03	1.959E-03	1.991E-03	2.074E-03	1.993E-03	1.888E-03	4.537E-03	1.264E-03	6.290E-03	1.968E-03
	* W	.1000	1.0	1.343E-03	6.627E-04	6.708E-04	6.792E-04	4.030E-03	6.799E-04	6.440E-04	1.573E-03	6.177E-04	2.146E-03	6.715E-04
FE-59	D	.1000	1.0	1.474E-02	1.150E-02	1.305E-02	1.197E-02	1.362E-02	1.500E-02	8.490E-03	2.042E-02	1.116E-02	2.630E-02	1.533E-02
	* W	.1000	1.0	1.234E-02	4.763E-03	5.265E-03	4.975E-03	5.262E-02	5.514E-03	3.515E-03	1.059E-02	1.052E-02	1.004E-02	5.636E-03
FR-221	D	.9500	1.0	4.494E-03	7.414E-05	7.424E-05	5.132E-05	3.688E-02	7.384E-05	1.263E-05	9.779E-05	8.223E-05	3.260E-06	5.633E-05
FR-223	D	.9500	1.0	2.762E-03	5.636E-04	5.636E-04	3.471E-03	6.327E-03	5.635E-04	3.863E-02	6.171E-04	6.462E-04	4.503E-04	4.597E-04
GA-67	D	.0010	1.0	3.576E-04	1.775E-04	1.168E-04	2.989E-04	5.653E-04	1.137E-04	1.659E-03	4.627E-04	6.489E-04	3.209E-04	1.297E-04
	* W	.0010	1.0	6.080E-04	2.294E-04	7.568E-05	1.457E-04	2.331E-03	4.380E-05	3.281E-04	7.695E-04	1.342E-03	1.355E-04	6.990E-05
GD-152		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
H-3	*	.9500	.0	1.263E-04	1.250E-04	1.250E-04	1.240E-04	1.250E-04	1.240E-04	9.850E-05	1.326E-04	1.340E-04	1.240E-04	1.290E-04
HF-181	D	.0020	1.0	1.561E-02	2.512E-03	2.388E-03	3.064E-02	4.769E-03	2.323E-03	3.004E-01	4.304E-03	5.500E-03	1.851E-03	2.169E-03
	* W	.0020	1.0	1.315E-02	1.603E-03	1.304E-03	6.915E-03	6.560E-02	1.053E-03	5.844E-02	6.899E-03	1.152E-02	1.758E-03	1.083E-03
HG-203	D	.0200	1.0	4.106E-03	2.525E-03	2.266E-03	2.501E-03	3.478E-03	2.426E-03	1.698E-03	7.647E-03	3.247E-03	2.430E-03	2.536E-02
	* W	.0200	1.0	5.834E-03	9.788E-04	8.535E-04	9.999E-04	3.332E-02	7.401E-04	6.808E-04	4.333E-03	5.603E-03	1.160E-03	5.628E-03
HO-166	W	.0003	1.0	3.694E-03	3.151E-05	1.849E-05	2.428E-04	1.624E-02	1.471E-05	3.409E-04	5.647E-03	9.898E-03	7.574E-04	1.845E-05
HO-166M		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I-122	D	.9500	1.0	1.512E-05	2.496E-07	6.655E-07	6.316E-07	1.145E-04	2.073E-06	5.128E-07	3.556E-06	3.353E-07	1.023E-06	6.024E-07
I-123	D	.9500	1.0	2.983E-04	1.191E-05	1.994E-05	2.322E-05	2.533E-04	8.324E-03	1.409E-05	3.001E-05	2.089E-05	1.971E-05	1.402E-05
I-125	D	.9500	1.0	2.412E-02	7.141E-05	3.515E-04	1.655E-04	4.453E-04	7.977E-01	1.105E-04	1.242E-04	7.705E-05	6.971E-05	7.121E-05
I-129	D	.9500	1.0	1.735E-01	3.264E-04	7.962E-04	5.255E-04	1.178E-03	5.763E+00	4.215E-04	4.359E-04	2.562E-04	3.236E-04	3.328E-04
I-130	D	.9500	1.0	2.660E-03	1.188E-04	2.002E-04	1.756E-04	2.316E-03	7.359E-02	1.289E-04	3.006E-04	1.971E-04	2.074E-04	1.642E-04
I-131	D	.9500	1.0	3.296E-02	1.002E-04	3.021E-04	2.367E-04	2.477E-03	1.082E+00	1.980E-04	3.673E-04	2.190E-04	1.477E-04	1.176E-04
I-132	D	.9500	1.0	3.964E-04	4.080E-05	5.965E-05	5.521E-05	1.125E-03	6.348E-03	4.109E-05	1.467E-04	6.430E-05	7.264E-05	5.990E-05
I-133	D	.9500	1.0	5.917E-03	8.009E-05	1.169E-04	1.052E-04	3.225E-03	1.801E-01	8.737E-05	2.502E-04	2.394E-04	1.112E-04	9.479E-05
I-134	D	.9500	1.0	1.493E-04	1.768E-05	2.683E-05	2.492E-05	6.602E-04	1.036E-03	1.870E-05	8.991E-05	2.738E-05	3.498E-05	2.789E-05
I-135	D	.9500	1.0	1.368E-03	6.971E-05	1.001E-04	9.200E-05	2.512E-03	3.134E-02	7.124E-05	2.672E-04	2.724E-04	1.143E-04	9.483E-05
IN-113M	D	.0200	1.0	4.468E-05	8.693E-06	6.546E-06	1.205E-05	2.139E-04	5.415E-06	7.321E-06	4.675E-05	4.626E-05	1.035E-05	1.360E-05
	* W	.0200	1.0	5.648E-05	3.223E-06	4.690E-06	6.253E-06	3.994E-04	3.638E-06	4.274E-06	2.019E-05	1.812E-05	7.959E-06	5.931E-06
IN-115	D	.0200	1.0	3.744E+00	4.463E-01	4.463E-01	1.359E+01	4.480E-01	4.463E-01	7.028E+00	5.525E+00	2.247E-01	7.568E+00	1.538E+01
	* W	.0200	1.0	1.026E+00	1.209E-01	1.209E-01	3.681E+00	2.147E-01	1.209E-01	1.904E+00	1.497E+00	6.815E-02	2.050E+00	4.166E+00
IN-115M	D	.0200	1.0	1.341E-04	2.272E-05	1.501E-05	6.539E-05	5.391E-04	1.285E-05	3.625E-05	1.739E-04	2.368E-04	4.335E-05	7.454E-05
	* W	.0200	1.0	1.803E-04	1.207E-05	8.836E-06	2.203E-05	1.129E-03	6.135E-06	1.293E-05	1.243E-04	1.780E-04	1.932E-05	2.272E-05

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

DCF-INHALATION (REM/MICROCI)

NAME	RESP	GIABS	SIZE MICRONS	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
IR-192	D	.0100	1.0	1.896E-02	7.866E-03	8.565E-03	9.003E-03	1.207E-02	8.023E-03	6.008E-03	4.252E-02	1.048E-02	6.469E-02	6.490E-02
	W	.0100	1.0	1.829E-02	3.373E-03	3.373E-03	3.664E-03	9.625E-02	2.812E-03	2.504E-03	1.599E-02	1.454E-02	1.645E-02	1.506E-02
	* Y	.0100	1.0	2.843E-02	2.274E-03	3.242E-03	3.510E-03	1.958E-01	2.470E-03	2.575E-03	1.103E-02	1.416E-02	6.810E-03	3.773E-03
K-40	D	.9500	1.0	1.278E-02	1.216E-02	1.196E-02	1.189E-02	1.821E-02	1.201E-02	1.153E-02	1.210E-02	6.652E-03	1.192E-02	1.214E-02
KR-83M	*	.0000	.0	8.493E-08	5.544E-08	5.499E-08	5.545E-08	3.024E-07	5.499E-08	5.392E-08	5.536E-08	2.847E-08	5.483E-08	5.463E-08
KR-85	*	.0000	.0	6.717E-07	4.896E-07	4.896E-07	4.896E-07	2.007E-06	4.896E-07	4.896E-07	4.897E-07	2.448E-07	4.897E-07	4.896E-07
KR-85M	*	.0000	.0	6.951E-07	5.087E-07	4.924E-07	5.218E-07	2.092E-06	5.181E-07	4.387E-07	5.058E-07	2.716E-07	4.965E-07	4.962E-07
KR-87	*	.0000	.0	3.004E-06	2.007E-06	2.001E-06	1.983E-06	1.024E-05	2.081E-06	1.845E-06	2.058E-06	1.065E-06	2.007E-06	2.079E-06
KR-88	*	.0000	.0	6.638E-06	4.820E-06	4.780E-06	4.710E-06	1.963E-05	5.098E-06	4.252E-06	5.050E-06	2.630E-06	4.777E-06	5.150E-06
KR-89	*	.0000	.0	3.331E-06	1.335E-06	1.337E-06	3.233E-06	1.465E-05	1.268E-06	4.348E-06	1.609E-06	3.811E-07	1.500E-06	1.418E-06
KR-90	*	.0000	.0	2.778E-06	6.892E-07	7.202E-07	1.901E-06	1.608E-05	6.921E-07	2.179E-06	8.484E-07	1.606E-07	8.057E-07	7.453E-07
LA-140	D	.0010	1.0	3.928E-03	1.272E-03	7.861E-04	1.673E-03	6.333E-03	4.835E-04	1.415E-03	8.247E-03	7.092E-03	1.313E-02	1.428E-03
	* W	.0010	1.0	5.463E-03	1.707E-03	6.108E-04	8.567E-04	1.981E-02	3.092E-04	5.569E-04	8.131E-03	1.346E-02	2.963E-03	7.152E-04
LA-141		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA-142		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN-54	D	.1000	1.0	5.295E-03	3.273E-03	3.728E-03	6.199E-03	4.265E-03	3.087E-03	9.075E-03	7.658E-03	3.780E-03	1.717E-02	5.298E-03
	* W	.1000	1.0	6.778E-03	2.644E-03	3.322E-03	4.104E-03	2.489E-02	2.986E-03	4.503E-03	6.383E-03	3.995E-03	9.211E-03	3.384E-03
MN-56	D	.1000	1.0	3.987E-04	8.160E-05	6.200E-05	8.514E-05	1.812E-03	5.617E-05	6.101E-05	4.593E-04	5.397E-04	1.332E-04	7.084E-05
	* W	.1000	1.0	5.270E-04	3.688E-05	4.262E-05	4.824E-05	3.563E-03	3.656E-05	3.517E-05	2.531E-04	2.856E-04	8.060E-05	4.037E-05
MO-93		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO-99	D	.8000	1.0	2.005E-03	4.939E-04	5.157E-04	1.369E-03	4.427E-03	5.936E-04	2.028E-03	3.435E-03	1.319E-03	6.888E-03	6.441E-03
	* Y	.0500	1.0	4.390E-03	3.389E-04	1.145E-04	2.028E-04	1.910E-02	1.552E-04	1.647E-04	6.540E-03	1.217E-02	4.165E-04	3.518E-04
N-13	D	.9500	1.0	1.972E-05	9.321E-07	2.003E-06	1.895E-06	1.334E-04	1.765E-06	1.476E-06	9.503E-06	1.457E-06	2.957E-06	1.988E-06
NA-22	D	.9500	1.0	8.213E-03	5.991E-03	6.910E-03	1.424E-02	9.782E-03	7.239E-03	1.260E-02	7.336E-03	4.833E-03	6.505E-03	7.338E-03
NA-24	D	.9500	1.0	1.282E-03	6.130E-04	6.685E-04	1.077E-03	4.936E-03	7.065E-04	8.825E-04	8.639E-04	6.354E-04	7.131E-04	7.347E-04
NB-93M	W	.0100	1.0	3.235E-03	1.554E-03	1.277E-04	1.053E-03	1.819E-02	1.171E-04	2.731E-03	1.443E-03	1.593E-03	1.221E-04	1.595E-03
	* Y	.0100	1.0	2.917E-02	5.752E-04	1.623E-04	4.195E-04	2.382E-01	4.346E-05	1.038E-03	1.123E-03	1.729E-03	1.070E-04	5.907E-04
NB-94	W	.0100	1.0	4.451E-02	1.716E-02	1.202E-02	3.743E-02	1.562E-01	1.080E-02	2.511E-01	2.443E-02	2.032E-02	1.405E-02	2.601E-02
	* Y	.0100	1.0	4.152E-01	1.633E-02	8.290E-02	8.934E-02	2.761E+00	8.243E-02	1.687E-01	1.637E-01	3.384E-02	1.438E-01	7.074E-02
NB-95	W	.0100	1.0	4.909E-03	1.815E-03	1.460E-03	2.530E-03	2.092E-02	1.253E-03	9.158E-03	3.700E-03	4.674E-03	2.025E-03	1.941E-03
	* Y	.0100	1.0	5.919E-03	1.628E-03	1.539E-03	1.670E-03	3.144E-02	1.359E-03	1.948E-03	4.031E-03	4.774E-03	2.525E-03	1.316E-03
NB-95M	W	.0100	1.0	2.295E-03	2.346E-04	1.420E-04	5.491E-04	1.041E-02	1.142E-04	1.171E-03	2.871E-03	5.254E-03	1.840E-04	3.216E-04
	* Y	.0100	1.0	2.482E-03	1.907E-04	1.282E-04	1.807E-04	1.174E-02	1.016E-04	2.093E-04	3.252E-03	5.999E-03	2.023E-04	1.223E-04
NB-97	W	.0100	1.0	1.354E-04	4.981E-06	8.691E-06	9.970E-06	1.000E-03	8.036E-06	7.575E-06	3.693E-05	2.706E-05	1.342E-05	7.468E-06
	* Y	.0100	1.0	1.460E-04	3.629E-06	7.150E-06	7.012E-06	1.082E-03	6.269E-06	5.218E-06	4.351E-05	3.268E-05	1.232E-05	6.345E-06
NB-97M	W	.0100	1.0	2.142E-06	8.459E-08	2.287E-07	2.406E-07	1.540E-05	2.179E-07	1.859E-07	6.581E-07	3.980E-07	3.760E-07	1.866E-07
	* Y	.0100	1.0	2.299E-06	6.412E-08	2.059E-07	1.972E-07	1.660E-05	1.915E-07	1.516E-07	7.545E-07	4.794E-07	3.602E-07	1.699E-07
ND-147	W	.0003	1.0	6.651E-03	3.094E-04	1.553E-04	1.846E-03	3.317E-02	8.541E-05	8.237E-03	6.995E-03	1.108E-02	5.820E-03	1.604E-04
	* Y	.0003	1.0	7.006E-03	3.191E-04	1.358E-04	3.329E-04	4.039E-02	7.282E-05	9.723E-04	6.624E-03	1.237E-02	6.177E-04	1.011E-04
NI-59	D	.0500	1.0	1.361E-03	1.324E-03	1.337E-03	1.362E-03	1.451E-03	1.362E-03	1.268E-03	1.375E-03	9.163E-04	1.324E-03	3.285E-06
	* W	.0500	1.0	9.178E-04	3.979E-04	4.059E-04	4.097E-04	4.515E-03	4.096E-04	3.812E-04	4.759E-04	4.995E-04	3.980E-04	9.878E-07
NI-63	D	.0500	1.0	3.202E-03	3.179E-03	3.179E-03	3.179E-03	3.373E-03	3.179E-03	3.179E-03	3.179E-03	1.862E-03	3.179E-03	9.262E-06

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

DCF-INHALATION (REM/MICROCI)

NAME	RESP	GIABS	SIZE MICRONS	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
	* W	.0500	1.0	2.289E-03	9.550E-04	9.550E-04	9.550E-04	1.149E-02	9.550E-04	9.550E-04	1.190E-03	1.348E-03	9.550E-04	2.783E-06
NI-65	D	.0500	1.0	2.598E-04	3.090E-05	2.591E-05	2.613E-05	1.287E-03	2.298E-05	2.137E-05	2.973E-04	3.631E-04	3.021E-05	2.932E-05
	* W	.0500	1.0	3.610E-04	1.256E-05	1.522E-05	1.490E-05	2.543E-03	1.219E-05	1.149E-05	1.598E-04	1.896E-04	2.253E-05	1.558E-05
NP-237	* W	.0010	1.0	4.906E+02	1.097E+02	1.071E+01	6.931E+02	7.065E+01	1.069E+01	8.563E+03	3.757E+02	1.069E+01	1.836E+03	1.074E+01
	Y	.0010	1.0	3.194E+02	4.176E+01	4.140E+00	2.673E+02	1.108E+03	4.130E+00	3.302E+03	1.473E+02	4.187E+00	7.199E+02	4.148E+00
NP-238	* W	.0010	1.0	3.220E-02	7.038E-03	9.359E-04	4.205E-02	1.450E-02	8.717E-04	5.133E-01	2.697E-02	7.621E-03	1.132E-01	9.490E-04
	Y	.0010	1.0	1.868E-02	2.543E-03	4.346E-04	1.306E-02	6.819E-02	3.702E-04	1.580E-01	1.158E-02	8.248E-03	3.530E-02	4.289E-04
NP-239	* W	.0010	1.0	2.713E-03	2.748E-04	7.577E-05	5.375E-04	1.066E-02	4.046E-05	4.757E-03	3.816E-03	6.638E-03	1.418E-03	7.609E-05
	Y	.0010	1.0	2.742E-03	2.543E-04	6.244E-05	1.838E-04	1.144E-02	2.567E-05	9.132E-04	4.154E-03	7.706E-03	2.899E-04	5.481E-05
NP-240	* W	.0010	1.0	1.354E-04	8.559E-06	1.410E-05	3.226E-05	8.762E-04	1.315E-05	2.312E-04	4.940E-05	2.427E-05	7.205E-05	1.254E-05
	Y	.0010	1.0	1.388E-04	6.564E-06	1.247E-05	1.831E-05	9.667E-04	1.099E-05	7.913E-05	4.795E-05	2.829E-05	3.685E-05	1.070E-05
NP-240M	* W	.0010	1.0	2.100E-05	3.480E-07	5.162E-07	2.237E-06	1.602E-04	4.722E-07	2.252E-05	2.181E-06	2.278E-07	5.460E-06	4.349E-07
	Y	.0010	1.0	2.112E-05	1.492E-07	3.922E-07	9.842E-07	1.681E-04	3.434E-07	8.075E-06	1.603E-06	1.637E-07	2.356E-06	3.079E-07
O-15	D	.9500	1.0	6.319E-06	8.741E-08	3.509E-07	3.306E-07	4.839E-05	3.141E-07	2.633E-07	1.270E-06	1.161E-07	5.786E-07	3.032E-07
P-32	* D	.8000	1.0	6.061E-03	1.889E-03	1.889E-03	2.243E-02	9.494E-03	1.889E-03	2.172E-02	2.555E-03	3.081E-03	1.889E-03	1.889E-03
	W	.8000	1.0	1.612E-02	1.324E-03	1.324E-03	1.573E-02	1.001E-01	1.324E-03	1.523E-02	3.968E-03	6.368E-03	1.324E-03	1.324E-03
PA-231	W	.0010	1.0	6.160E+02	2.785E-01	5.851E-02	1.225E+03	6.310E+01	5.642E-02	1.535E+04	3.339E+00	1.111E-01	9.168E+00	7.209E+00
	* Y	.0010	1.0	4.845E+02	6.823E+00	1.055E+00	5.046E+02	1.868E+03	1.052E+00	6.313E+03	2.862E+01	1.142E+00	1.357E+02	3.971E+00
PA-233	W	.0010	1.0	8.371E-03	4.943E-04	3.239E-04	2.791E-03	4.562E-02	2.045E-04	2.393E-02	5.553E-03	9.437E-03	1.766E-03	1.701E-03
	* Y	.0010	1.0	9.668E-03	4.891E-04	3.496E-04	5.908E-04	6.406E-02	2.140E-04	1.697E-03	5.592E-03	1.017E-02	6.518E-04	3.402E-04
PA-234	W	.0010	.3	9.321E-04	1.153E-04	1.087E-04	1.328E-04	5.818E-03	9.005E-05	2.119E-04	5.461E-04	7.543E-04	2.022E-04	9.808E-05
	W	.0010	1.0	1.006E-03	2.070E-04	1.176E-04	1.577E-04	5.154E-03	8.687E-05	2.747E-04	9.614E-04	1.434E-03	2.178E-04	1.186E-04
	W	.0010	3.0	1.315E-03	3.435E-04	1.523E-04	2.146E-04	5.743E-03	1.026E-04	3.782E-04	1.591E-03	2.432E-03	2.788E-04	1.647E-04
	Y	.0010	.3	1.003E-03	1.377E-04	1.061E-04	1.155E-04	6.057E-03	8.211E-05	8.191E-05	6.902E-04	9.868E-04	1.777E-04	9.678E-05
	* Y	.0010	1.0	1.105E-03	2.361E-04	1.139E-04	1.329E-04	5.520E-03	7.597E-05	9.044E-05	1.153E-03	1.743E-03	1.833E-04	1.164E-04
	Y	.0010	3.0	1.453E-03	3.815E-04	1.471E-04	1.794E-04	6.287E-03	8.769E-05	1.193E-04	1.846E-03	2.843E-03	2.305E-04	1.612E-04
PA-234M	W	.0010	.3	3.543E-06	3.767E-09	5.317E-09	4.408E-09	2.947E-05	5.190E-09	3.290E-09	1.346E-08	5.456E-09	4.213E-09	1.940E-09
	W	.0010	1.0	3.765E-06	5.577E-09	6.840E-09	5.565E-09	3.129E-05	6.655E-09	4.097E-09	2.350E-08	9.461E-09	4.518E-09	2.189E-09
	W	.0010	3.0	4.836E-06	8.154E-09	9.421E-09	7.633E-09	4.016E-05	9.136E-09	5.581E-09	3.882E-08	1.533E-08	5.813E-09	2.903E-09
	Y	.0010	.3	3.562E-06	9.790E-10	2.413E-09	2.362E-09	2.963E-05	2.256E-09	1.800E-09	1.493E-08	5.196E-09	4.053E-09	1.802E-09
	* Y	.0010	1.0	3.792E-06	1.592E-09	2.703E-09	2.650E-09	3.152E-05	2.478E-09	1.972E-09	2.603E-08	8.978E-09	4.290E-09	1.990E-09
	Y	.0010	3.0	4.874E-06	2.530E-09	3.597E-09	3.527E-09	4.050E-05	3.257E-09	2.586E-09	4.191E-08	1.453E-08	5.492E-09	2.619E-09
PB-209	D	.2000	1.0	1.024E-04	6.449E-06	6.449E-06	2.223E-05	4.746E-04	6.449E-06	2.239E-04	1.108E-04	1.438E-04	2.717E-05	1.259E-05
PB-210	D	.2000	.3	1.336E+00	1.222E-01	1.223E-01	1.565E+00	1.248E-01	1.222E-01	1.823E+01	1.780E+00	1.210E-01	5.597E+00	2.885E+00
		.2000	.0	1.212E+00	1.107E-01	1.108E-01	1.426E+00	1.122E-01	1.107E-01	1.661E+01	1.606E+00	1.107E-01	5.098E+00	2.568E+00
	D	.2000	3.0	1.351E+00	1.232E-01	1.233E-01	1.595E+00	1.241E-01	1.232E-01	1.859E+01	1.781E+00	1.244E-01	5.702E+00	2.809E+00
	W	.2000	.3	2.520E+00	1.070E-01	1.071E-01	6.737E-01	1.363E+01	1.070E-01	7.407E+00	1.786E+00	1.446E-01	2.553E+00	3.129E+00
	W	.2000	1.0	1.672E+00	8.169E-02	8.173E-02	6.470E-01	7.872E+00	8.168E-02	7.285E+00	1.320E+00	1.058E-01	2.397E+00	2.262E+00
	W	.2000	3.0	1.213E+00	7.436E-02	7.439E-02	7.514E-01	4.065E+00	7.434E-02	8.628E+00	1.149E+00	9.101E-02	2.730E+00	1.904E+00
	Y	.2000	.3	1.164E+02	3.877E-01	3.882E-01	7.208E-01	9.489E+02	3.877E-01	5.701E+00	7.044E+00	6.737E-01	3.463E+00	1.267E+01
	Y	.2000	1.0	6.721E+01	2.365E-01	2.368E-01	5.851E-01	5.467E+02	2.365E-01	5.264E+00	4.249E+00	4.043E-01	2.602E+00	7.599E+00
	Y	.2000	3.0	3.466E+01	1.432E-01	1.434E-01	5.859E-01	2.800E+02	1.432E-01	6.032E+00	2.498E+00	2.344E-01	2.356E+00	4.396E+00

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

DCF-INHALATION (REM/MICROCI)

NAME	RESP	GIABS	SIZE MICRONS	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
	D	.2000	.3	1.523E+01	1.349E+00	1.349E+00	1.604E+01	1.351E+00	1.349E+00	2.255E+02	1.932E+01	1.340E+00	6.321E+01	2.933E+01
	* D	.2000	1.0	1.387E+01	1.229E+00	1.229E+00	1.461E+01	1.230E+00	1.229E+00	2.055E+02	1.760E+01	1.222E+00	5.758E+01	2.672E+01
	D	.2000	3.0	1.552E+01	1.374E+00	1.375E+00	1.635E+01	1.375E+00	1.374E+00	2.299E+02	1.968E+01	1.368E+00	6.441E+01	2.989E+01
	W	.2000	.3	9.794E+00	5.690E-01	5.690E-01	6.557E+00	2.966E+01	5.689E-01	9.208E+01	8.138E+00	5.782E-01	2.661E+01	1.235E+01
	W	.2000	1.0	8.163E+00	5.510E-01	5.510E-01	6.432E+00	1.731E+01	5.509E-01	9.037E+01	7.885E+00	5.574E-01	2.579E+01	1.197E+01
	W	.2000	3.0	8.270E+00	6.443E-01	6.443E-01	7.602E+00	9.229E+00	6.443E-01	1.068E+02	9.226E+00	6.498E-01	3.018E+01	1.400E+01
	Y	.2000	.3	1.800E+02	4.671E-01	4.676E-01	5.020E+00	1.459E+03	4.671E-01	7.029E+01	6.658E+00	4.849E-01	2.175E+01	1.009E+01
	Y	.2000	1.0	1.054E+02	4.156E-01	4.159E-01	4.634E+00	8.408E+02	4.156E-01	6.499E+01	5.935E+00	4.280E-01	1.940E+01	9.000E+00
	Y	.2000	3.0	5.674E+01	4.597E-01	4.598E-01	5.308E+00	4.308E+02	4.597E-01	7.455E+01	6.576E+00	4.696E-01	2.150E+01	9.976E+00
PB-211	D	.2000	1.0	9.686E-03	5.867E-04	5.868E-04	6.507E-04	7.538E-02	5.867E-04	3.165E-03	7.197E-04	6.374E-04	3.950E-04	4.490E-04
PB-212	D	.2000	.3	2.207E-01	1.335E-02	1.336E-02	9.558E-02	1.246E+00	1.334E-02	1.080E+00	7.216E-02	1.560E-02	1.330E-01	1.819E-01
	* D	.2000	1.0	1.704E-01	1.498E-02	1.486E-02	1.103E-01	7.320E-01	1.483E-02	1.251E+00	8.467E-02	2.284E-02	1.540E-01	2.037E-01
	D	.2000	3.0	1.586E-01	1.969E-02	1.940E-02	1.475E-01	3.985E-01	1.934E-02	1.676E+00	1.147E-01	3.520E-02	2.064E-01	2.670E-01
PB-214	D	.2000	.3	1.194E-02	4.219E-04	4.252E-04	4.768E-04	9.505E-02	4.244E-04	2.334E-03	7.486E-04	4.455E-04	2.209E-04	1.817E-03
	* D	.2000	1.0	8.674E-03	7.143E-04	7.143E-04	7.631E-04	6.473E-02	7.130E-04	3.466E-03	1.342E-03	7.987E-04	3.671E-04	3.066E-03
	D	.2000	3.0	7.429E-03	1.136E-03	1.133E-03	1.190E-03	4.986E-02	1.131E-03	5.249E-03	2.193E-03	1.304E-03	5.805E-04	4.871E-03
PD-107	D	.0050	1.0	2.843E-04	3.776E-06	3.776E-06	6.027E-05	1.091E-04	3.776E-06	7.193E-04	8.025E-04	1.529E-04	1.234E-03	2.388E-03
	W	.0050	1.0	8.245E-04	9.691E-07	9.691E-07	1.547E-05	5.712E-03	9.691E-07	1.846E-04	4.374E-04	4.927E-04	3.166E-04	6.128E-04
	* Y	.0050	1.0	1.272E-02	4.155E-07	4.155E-07	6.632E-06	1.051E-01	4.155E-07	7.914E-05	3.635E-04	5.561E-04	1.358E-04	2.627E-04
PD-109	D	.0050	1.0	9.948E-04	5.530E-05	4.874E-05	4.187E-05	3.017E-03	4.672E-05	2.967E-05	2.014E-03	2.407E-03	1.266E-03	2.434E-03
	W	.0050	1.0	1.509E-03	2.211E-05	1.324E-05	1.322E-05	7.549E-03	9.988E-06	8.549E-06	1.979E-03	3.375E-03	2.625E-04	4.994E-04
	* Y	.0050	1.0	1.646E-03	1.576E-05	4.570E-06	6.504E-06	8.014E-03	1.099E-06	3.426E-06	2.263E-03	4.053E-03	2.173E-05	3.547E-05
PM-147	W	.0003	1.0	2.601E-02	2.267E-06	2.314E-06	3.063E-02	3.626E-02	2.246E-06	3.799E-01	2.196E-02	3.271E-03	1.013E-01	2.448E-06
	* Y	.0003	1.0	3.903E-02	4.604E-07	5.626E-07	5.990E-03	2.862E-01	5.028E-07	7.430E-02	5.784E-03	3.511E-03	1.981E-02	5.388E-07
PM-148	W	.0003	1.0	1.122E-02	7.615E-04	3.307E-04	1.937E-03	5.243E-02	1.938E-04	1.809E-03	1.466E-02	2.545E-02	6.089E-03	3.728E-04
	* Y	.0003	1.0	1.176E-02	8.035E-04	2.891E-04	4.214E-04	5.683E-02	1.595E-04	2.797E-04	1.545E-02	2.901E-02	7.283E-04	2.751E-04
PM-148M	W	.0003	1.0	4.452E-02	6.250E-03	5.838E-03	2.656E-02	2.044E-01	3.966E-03	4.953E-02	4.255E-02	3.937E-02	9.498E-02	7.862E-03
	* Y	.0003	1.0	5.338E-02	5.412E-03	5.483E-03	6.761E-03	3.419E-01	4.516E-03	6.548E-03	3.009E-02	4.684E-02	1.397E-02	4.600E-03
PM-149	W	.0003	1.0	3.089E-03	1.920E-05	1.074E-05	3.009E-04	1.357E-02	8.894E-06	2.993E-04	4.698E-03	8.540E-03	9.776E-04	1.094E-05
	* Y	.0003	1.0	3.298E-03	1.408E-05	3.842E-06	2.148E-05	1.429E-02	1.916E-06	1.915E-05	5.254E-03	9.945E-03	5.925E-05	3.625E-06
PM-151		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PO-210	D	.1000	.3	1.067E+01	1.742E+00	1.742E+00	1.227E+00	3.821E+00	1.742E+00	9.306E-01	3.096E+01	1.739E+00	9.007E+00	5.224E+01
	D	.1000	1.0	9.438E+00	1.553E+00	1.553E+00	1.094E+00	2.777E+00	1.553E+00	8.296E-01	2.760E+01	1.562E+00	8.029E+00	4.657E+01
	D	.1000	3.0	1.024E+01	1.698E+00	1.698E+00	1.196E+00	2.367E+00	1.698E+00	9.069E-01	3.018E+01	1.721E+00	8.778E+00	5.091E+01
	W	.1000	.3	1.274E+01	4.698E-01	4.698E-01	3.309E-01	8.319E+01	4.698E-01	2.509E-01	8.366E+00	5.081E-01	2.428E+00	1.408E+01
	* W	.1000	1.0	8.710E+00	4.836E-01	4.836E-01	3.406E-01	4.891E+01	4.836E-01	2.583E-01	8.615E+00	5.289E-01	2.500E+00	1.450E+01
	W	.1000	3.0	6.651E+00	5.860E-01	5.860E-01	4.127E-01	2.672E+01	5.860E-01	3.130E-01	1.044E+01	6.492E-01	3.029E+00	1.757E+01
	Y	.1000	.3	2.960E+01	1.422E-01	1.422E-01	1.001E-01	2.397E+02	1.422E-01	7.593E-02	2.544E+00	1.779E-01	7.349E-01	4.262E+00
	Y	.1000	1.0	1.776E+01	1.819E-01	1.819E-01	1.281E-01	1.390E+02	1.819E-01	9.716E-02	3.256E+00	2.301E-01	9.404E-01	5.454E+00
	Y	.1000	3.0	1.029E+01	2.617E-01	2.617E-01	1.843E-01	7.287E+01	2.617E-01	1.398E-01	4.685E+00	3.330E-01	1.353E+00	7.846E+00
PO-211		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PO-212	D	.1000	.3	3.358E-12	3.451E-23	3.451E-23	2.315E-23	2.799E-11	3.451E-23	3.253E-33	3.731E-23	3.427E-23	5.386E-26	3.847E-27

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

DCF-INHALATION (REM/MICROCI)

NAME	RESP	GIABS	SIZE MICRONS	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
	D	.1000	1.0	3.577E-12	6.396E-23	6.396E-23	4.292E-23	2.980E-11	6.396E-23	6.030E-33	7.392E-23	6.353E-23	9.983E-26	7.131E-27
	D	.1000	3.0	4.598E-12	1.048E-22	1.048E-22	7.032E-23	3.831E-11	1.048E-22	9.882E-33	1.246E-22	1.041E-22	1.636E-25	1.169E-26
	W	.1000	.3	3.358E-12	1.328E-23	1.328E-23	8.909E-24	2.799E-11	1.328E-23	1.252E-33	1.352E-23	1.319E-23	2.073E-26	1.480E-27
	* W	.1000	1.0	3.577E-12	1.933E-23	1.933E-23	1.297E-23	2.980E-11	1.933E-23	1.822E-33	1.988E-23	1.920E-23	3.017E-26	2.155E-27
	W	.1000	3.0	4.598E-12	2.760E-23	2.760E-23	1.852E-23	3.831E-11	2.760E-23	2.602E-33	2.859E-23	2.742E-23	4.308E-26	3.077E-27
PO-213	D	.1000	1.0	4.702E-11	2.271E-15	2.271E-15	7.827E-15	3.917E-10	2.271E-15	7.883E-14	3.903E-14	5.063E-14	9.569E-15	4.433E-15
	* W	.1000	1.0	4.703E-11	6.230E-16	6.230E-16	2.147E-15	3.919E-10	6.230E-16	2.162E-14	2.380E-14	3.178E-14	2.624E-15	1.216E-15
PO-214	D	.1000	.3	1.576E-09	2.839E-14	2.844E-14	5.960E-12	1.311E-08	2.842E-14	7.291E-11	4.134E-13	2.812E-14	1.300E-12	6.700E-13
	D	.1000	1.0	1.678E-09	2.573E-14	2.577E-14	5.430E-12	1.396E-08	2.575E-14	6.643E-11	3.730E-13	2.572E-14	1.184E-12	5.962E-13
	D	.1000	3.0	2.157E-09	2.864E-14	2.869E-14	6.076E-12	1.795E-08	2.867E-14	7.432E-11	4.136E-13	2.891E-14	1.324E-12	6.522E-13
	W	.1000	.3	1.575E-09	2.486E-14	2.489E-14	2.431E-12	1.311E-08	2.488E-14	2.963E-11	4.147E-13	3.359E-14	5.929E-13	7.265E-13
	* W	.1000	1.0	1.677E-09	1.898E-14	1.901E-14	2.387E-12	1.396E-08	1.900E-14	2.913E-11	3.065E-13	2.458E-14	5.565E-13	5.252E-13
	W	.1000	3.0	2.155E-09	1.728E-14	1.732E-14	2.823E-12	1.795E-08	1.731E-14	3.450E-11	2.667E-13	2.115E-14	6.338E-13	4.422E-13
PO-215	D	.1000	1.0	2.684E-08	5.622E-10	5.622E-10	6.235E-10	2.186E-07	5.621E-10	3.033E-09	6.895E-10	6.108E-10	3.785E-10	4.302E-10
	* W	.1000	1.0	3.162E-08	1.759E-10	1.763E-10	1.901E-10	2.620E-07	1.762E-10	8.828E-10	1.979E-10	1.833E-10	1.107E-10	1.311E-10
PO-216	D	.1000	.3	2.145E-06	5.246E-08	5.250E-08	3.754E-07	1.554E-05	5.242E-08	4.241E-06	2.834E-07	6.129E-08	5.223E-07	7.143E-07
	D	.1000	1.0	2.030E-06	5.887E-08	5.839E-08	4.333E-07	1.422E-05	5.826E-08	4.913E-06	3.326E-07	8.973E-08	6.049E-07	7.999E-07
	D	.1000	3.0	2.373E-06	7.734E-08	7.622E-08	5.793E-07	1.614E-05	7.600E-08	6.584E-06	4.505E-07	1.383E-07	8.106E-07	1.049E-06
	W	.1000	.3	2.400E-06	1.315E-08	1.300E-08	8.108E-08	1.946E-05	1.287E-08	9.005E-07	7.574E-08	3.524E-08	1.114E-07	1.690E-07
	* W	.1000	1.0	2.310E-06	2.144E-08	2.086E-08	1.258E-07	1.840E-05	2.068E-08	1.392E-06	1.233E-07	6.195E-08	1.718E-07	2.725E-07
	W	.1000	3.0	2.752E-06	3.316E-08	3.201E-08	1.894E-07	2.163E-05	3.175E-08	2.091E-06	1.914E-07	1.012E-07	2.579E-07	4.185E-07
PO-218	D	.1000	.3	2.660E-03	5.686E-05	5.723E-05	6.169E-05	2.159E-02	5.714E-05	2.843E-04	9.505E-05	5.971E-05	2.778E-05	2.174E-04
	D	.1000	1.0	2.282E-03	9.694E-05	9.691E-05	9.984E-05	1.803E-02	9.676E-05	4.258E-04	1.711E-04	1.073E-04	4.628E-05	3.656E-04
	D	.1000	3.0	2.426E-03	1.546E-04	1.541E-04	1.563E-04	1.864E-02	1.539E-04	6.469E-04	2.798E-04	1.751E-04	7.323E-05	5.800E-04
	W	.1000	.3	2.965E-03	2.408E-05	2.461E-05	2.595E-05	2.447E-02	2.451E-05	1.140E-04	4.015E-05	2.486E-05	1.151E-05	9.345E-05
	* W	.1000	1.0	3.042E-03	3.664E-05	3.713E-05	3.760E-05	2.499E-02	3.702E-05	1.536E-04	6.193E-05	3.842E-05	1.621E-05	1.420E-04
	W	.1000	3.0	3.827E-03	5.385E-05	5.442E-05	5.422E-05	3.136E-02	5.428E-05	2.146E-04	9.204E-05	5.702E-05	2.304E-05	2.087E-04
PR-143	W	.0003	1.0	8.005E-03	7.444E-06	7.444E-06	1.031E-03	4.309E-02	7.444E-06	1.026E-03	8.922E-03	1.270E-02	8.209E-03	3.948E-03
	* Y	.0003	1.0	8.464E-03	4.093E-07	4.093E-07	5.669E-05	5.189E-02	4.093E-07	5.643E-05	7.431E-03	1.412E-02	4.513E-04	2.171E-04
PR-144	W	.0003	1.0	7.770E-05	6.672E-07	7.235E-07	5.831E-07	6.328E-04	7.113E-07	3.213E-07	4.603E-06	1.379E-06	7.569E-07	3.652E-07
	* Y	.0003	1.0	8.183E-05	4.975E-08	1.089E-07	9.743E-08	6.682E-04	9.578E-08	6.894E-08	5.349E-06	1.368E-06	1.616E-07	7.179E-08
PR-144M	W	.0003	1.0	3.280E-05	4.190E-07	4.650E-07	3.959E-07	2.647E-04	4.400E-07	2.291E-07	2.647E-06	8.736E-07	5.495E-07	2.556E-07
	* Y	.0003	1.0	3.539E-05	3.130E-08	7.969E-08	8.355E-08	2.868E-04	5.334E-08	6.265E-08	3.149E-06	8.994E-07	1.173E-07	4.227E-08
PU-236	W	.0010	1.0	6.611E+01	1.065E+01	1.200E+00	8.066E+01	7.002E+01	1.200E+00	9.981E+02	5.070E+01	1.255E+00	2.486E+02	1.198E+00
	* Y	.0010	1.0	8.808E+01	2.231E+00	2.745E-01	1.805E+01	6.287E+02	2.743E-01	2.232E+02	1.055E+01	3.442E-01	5.140E+01	3.369E-01
PU-238	W	.0010	1.0	4.727E+02	1.041E+02	1.020E+01	6.641E+02	7.892E+01	1.019E+01	8.189E+03	3.667E+02	1.021E+01	1.793E+03	1.019E+01
	* Y	.0010	1.0	3.179E+02	3.899E+01	3.861E+00	2.515E+02	1.183E+03	3.860E+00	3.101E+03	1.408E+02	3.909E+00	6.886E+02	3.860E+00
PU-239	W	.0010	1.0	5.279E+02	1.180E+02	1.145E+01	7.470E+02	7.609E+01	1.145E+01	9.198E+03	4.053E+02	1.145E+01	1.981E+03	1.145E+01
	* Y	.0001	1.0	3.417E+02	4.441E+01	4.366E+00	2.848E+02	1.194E+03	4.365E+00	3.507E+03	1.572E+02	4.407E+00	7.683E+02	4.365E+00
PU-240	W	.0010	1.0	5.270E+02	1.180E+02	1.144E+01	7.457E+02	7.609E+01	1.144E+01	9.182E+03	4.047E+02	1.144E+01	1.978E+03	1.144E+01
	* Y	.0001	1.0	3.413E+02	4.440E+01	4.362E+00	2.842E+02	1.194E+03	4.362E+00	3.500E+03	1.569E+02	4.404E+00	7.669E+02	4.362E+00
PU-241	W	.0010	1.0	1.060E+01	2.534E+00	2.365E-01	1.538E+01	2.558E-01	2.364E-01	1.896E+02	7.870E+00	2.356E-01	3.840E+01	2.367E-01

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

DCF-INHALATION (REM/MICROCI)

NAME	RESP	GIABS	SIZE MICRONS	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
	* Y	.0010	1.0	5.197E+00	1.026E+00	1.085E-01	6.398E+00	6.395E+00	1.084E-01	7.880E+01	3.405E+00	1.083E-01	1.659E+01	1.086E-01
PU-242	W	.0010	1.0	5.022E+02	1.117E+02	1.090E+01	7.084E+02	7.221E+01	1.090E+01	8.774E+03	3.847E+02	1.089E+01	1.880E+03	1.090E+01
	* Y	.0001	1.0	3.247E+02	4.207E+01	4.155E+00	2.701E+02	1.132E+03	4.154E+00	3.345E+03	1.492E+02	4.193E+00	7.292E+02	4.155E+00
PU-243	W	.0010	1.0	2.404E-04	1.412E-05	4.531E-06	7.994E-05	1.203E-03	3.824E-06	9.396E-04	1.800E-04	2.152E-04	2.081E-04	4.317E-06
	* Y	.0010	1.0	2.330E-04	6.192E-06	1.972E-06	2.558E-05	1.376E-03	1.169E-06	2.821E-04	1.817E-04	2.634E-04	6.363E-05	1.704E-06
PU-244	W	.0010	1.0	4.952E+02	1.105E+02	1.103E+01	7.015E+02	7.158E+01	1.093E+01	8.614E+03	3.812E+02	1.101E+01	1.861E+03	4.079E-01
	* Y	.0010	1.0	3.226E+02	4.209E+01	4.290E+00	2.705E+02	1.119E+03	4.239E+00	3.321E+03	1.497E+02	4.633E+00	7.301E+02	1.826E-01
RA-223	W	.2000	1.0	8.341E+00	1.377E-01	1.375E-01	8.922E-01	6.503E+01	1.374E-01	9.991E+00	2.408E-01	3.357E-01	1.157E-01	1.181E-01
RA-224	W	.2000	.3	5.240E+00	4.923E-02	4.873E-02	3.378E-01	4.190E+01	4.853E-02	3.804E+00	1.214E-01	1.533E-01	8.755E-02	1.051E-01
	* W	.2000	1.0	3.539E+00	7.001E-02	6.912E-02	4.786E-01	2.700E+01	6.893E-02	5.390E+00	1.692E-01	2.158E-01	1.181E-01	1.452E-01
	W	.2000	3.0	2.696E+00	1.034E-01	1.019E-01	7.049E-01	1.878E+01	1.017E-01	7.939E+00	2.524E-01	3.253E-01	1.714E-01	2.137E-01
	Y	.2000	.3	5.453E+00	2.875E-02	2.816E-02	1.953E-01	4.433E+01	2.795E-02	2.198E+00	1.031E-01	1.467E-01	5.817E-02	6.884E-02
	Y	.2000	1.0	3.654E+00	4.261E-02	4.155E-02	2.898E-01	2.883E+01	4.133E-02	3.265E+00	1.453E-01	2.112E-01	7.675E-02	9.068E-02
	Y	.2000	3.0	2.748E+00	6.565E-02	6.390E-02	4.467E-01	2.042E+01	6.362E-02	5.035E+00	2.190E-01	3.214E-01	1.122E-01	1.326E-01
RA-225	W	.2000	1.0	4.218E+00	1.078E-01	1.077E-01	9.871E-01	3.020E+01	1.074E-01	1.139E+01	2.933E-01	1.677E-01	8.824E-01	1.071E-01
RA-226	W	.2000	.3	1.427E+01	7.842E-01	7.842E-01	2.708E+00	1.040E+02	7.835E-01	2.845E+01	8.869E-01	8.622E-01	4.794E-01	1.100E+00
	* W	.2000	1.0	8.910E+00	6.095E-01	6.093E-01	2.553E+00	6.080E+01	6.087E-01	2.797E+01	6.894E-01	6.949E-01	4.274E-01	7.934E-01
	W	.2000	3.0	5.694E+00	5.683E-01	5.681E-01	2.920E+00	3.260E+01	5.672E-01	3.312E+01	6.450E-01	6.816E-01	4.643E-01	6.656E-01
	Y	.2000	.3	2.381E+02	7.815E+00	7.816E+00	7.063E+00	1.920E+03	7.818E+00	2.344E+01	9.022E+00	7.859E+00	2.344E+00	1.370E+01
	Y	.2000	1.0	1.376E+02	4.607E+00	4.608E+00	4.722E+00	1.107E+03	4.608E+00	2.110E+01	5.326E+00	4.680E+00	1.450E+00	8.002E+00
	Y	.2000	3.0	7.133E+01	2.536E+00	2.536E+00	3.518E+00	5.686E+02	2.536E+00	2.361E+01	2.945E+00	2.653E+00	9.103E-01	4.278E+00
RA-228	W	.2000	.3	3.699E+00	5.092E-01	5.112E-01	1.519E+00	2.203E+01	5.100E-01	1.509E+01	6.675E-01	5.624E-01	1.146E+00	5.257E-01
	* W	.2000	1.0	2.456E+00	4.488E-01	4.496E-01	1.332E+00	1.285E+01	4.487E-01	1.318E+01	5.535E-01	4.885E-01	8.587E-01	4.604E-01
	W	.2000	3.0	1.787E+00	4.823E-01	4.820E-01	1.423E+00	6.836E+00	4.811E-01	1.403E+01	5.584E-01	5.182E-01	7.625E-01	4.915E-01
	Y	.2000	.3	2.921E+02	1.369E+00	1.409E+00	3.847E+00	2.409E+03	1.398E+00	3.766E+01	2.848E+00	2.447E+00	5.514E+00	1.822E+00
	Y	.2000	1.0	1.685E+02	8.907E-01	9.131E-01	2.515E+00	1.388E+03	9.067E-01	2.463E+01	1.753E+00	1.523E+00	3.299E+00	1.153E+00
	Y	.2000	3.0	8.665E+01	6.282E-01	6.387E-01	1.791E+00	7.110E+02	6.351E-01	1.755E+01	1.086E+00	9.712E-01	1.895E+00	7.642E-01
RB-86	D	.9500	1.0	8.220E-03	5.083E-03	5.184E-03	2.011E-02	1.250E-02	5.251E-03	1.820E-02	5.185E-03	3.160E-03	5.170E-03	5.187E-03
RB-87	D	.9500	1.0	7.411E-03	2.741E-03	2.741E-03	1.136E-02	4.004E-03	2.741E-03	1.189E-01	2.741E-03	1.459E-03	2.741E-03	2.741E-03
RB-88	D	.9500	1.0	1.171E-04	5.157E-06	6.004E-06	4.526E-06	8.091E-04	5.809E-06	2.728E-06	5.657E-05	8.684E-06	6.777E-06	6.074E-06
RB-89	D	.9500	1.0	5.869E-05	4.091E-06	6.600E-06	7.379E-06	3.804E-04	6.338E-06	9.377E-06	3.225E-05	7.121E-06	8.998E-06	6.689E-06
RB-90		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB-90M		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE-187	D	.8000	1.0	6.723E-06	1.140E-06	1.140E-06	1.140E-06	8.660E-06	2.958E-05	1.140E-06	1.390E-05	2.738E-06	1.501E-06	1.140E-06
	* W	.8000	1.0	5.489E-05	1.005E-06	1.005E-06	1.005E-06	4.087E-04	2.608E-05	1.005E-06	1.504E-05	7.569E-06	1.323E-06	1.005E-06
RH-103M	D	.0500	1.0	5.978E-06	3.453E-07	3.456E-07	3.452E-07	3.568E-05	3.301E-07	3.298E-07	4.990E-06	3.566E-06	3.403E-07	3.304E-07
	W	.0500	1.0	7.840E-06	9.782E-08	1.191E-07	1.083E-07	6.159E-05	9.419E-08	1.029E-07	1.295E-06	9.228E-07	1.139E-07	9.439E-08
	* Y	.0500	1.0	8.463E-06	1.120E-08	3.334E-08	1.991E-08	6.648E-05	5.926E-09	1.750E-08	1.584E-06	1.121E-06	2.796E-08	6.343E-09
RH-105	D	.0500	1.0	4.746E-04	1.290E-04	1.065E-04	1.107E-04	1.391E-03	1.055E-04	9.587E-05	8.003E-04	1.426E-03	1.090E-04	1.073E-04
	W	.0500	1.0	1.004E-03	8.399E-05	3.783E-05	4.492E-05	4.422E-03	2.901E-05	3.168E-05	1.464E-03	2.707E-03	4.570E-05	3.694E-05
	* Y	.0500	1.0	1.097E-03	7.980E-05	2.380E-05	3.192E-05	4.636E-03	1.311E-05	1.850E-05	1.707E-03	3.170E-03	3.192E-05	2.296E-05
RH-105M	D	.0500	1.0	4.608E-07	4.672E-08	4.349E-08	4.563E-08	2.876E-06	4.045E-08	3.915E-08	2.989E-07	5.060E-07	4.680E-08	4.094E-08

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

DCF-INHALATION (REM/MICROCI)

NAME	RESP	GIABS	SIZE MICRONS	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
	W	.0500	1.0	6.508E-07	3.026E-08	1.884E-08	2.199E-08	4.006E-06	1.300E-08	1.614E-08	5.205E-07	9.545E-07	2.411E-08	1.557E-08
	* Y	.0500	1.0	6.862E-07	2.853E-08	1.352E-08	1.704E-08	4.096E-06	6.978E-09	1.115E-08	6.096E-07	1.124E-06	1.890E-08	1.025E-08
RH-106	D	.0500	1.0	2.765E-06	6.205E-09	1.937E-08	1.840E-08	2.271E-05	1.814E-08	1.538E-08	1.082E-07	5.795E-09	3.082E-08	1.625E-08
	W	.0500	1.0	2.786E-06	3.124E-09	1.641E-08	1.547E-08	2.308E-05	1.525E-08	1.251E-08	3.512E-08	3.531E-09	2.800E-08	1.305E-08
	* Y	.0500	1.0	2.795E-06	1.888E-09	1.520E-08	1.427E-08	2.316E-05	1.403E-08	1.133E-08	3.541E-08	2.914E-09	2.683E-08	1.182E-08
RN-219	* *	.0000	.0	1.149E-04	6.429E-06	6.430E-06	8.207E-06	8.853E-04	6.430E-06	8.747E-05	7.550E-06	6.435E-06	9.211E-06	9.187E-06
	Y	.0000	.3	8.736E-05	3.227E-09	4.265E-09	6.330E-08	7.275E-04	4.013E-09	7.610E-07	9.195E-08	2.031E-08	9.700E-08	1.624E-07
	Y	.0000	1.0	5.601E-05	7.032E-09	7.623E-09	1.398E-07	4.656E-04	7.433E-09	1.704E-06	1.934E-07	3.918E-08	2.137E-07	3.751E-07
	Y	.0000	3.0	3.527E-05	1.228E-08	1.254E-08	2.448E-07	2.920E-04	1.237E-08	2.995E-06	3.330E-07	6.521E-08	3.741E-07	6.664E-07
RN-220	* *	.0000	.0	3.585E-04	9.244E-05	9.242E-05	1.189E-04	1.931E-03	9.241E-05	1.272E-03	1.156E-04	9.253E-05	1.429E-04	1.550E-04
	Y	.0000	.3	1.165E-03	8.002E-07	7.056E-07	1.499E-05	9.611E-03	6.526E-07	1.836E-04	1.465E-05	1.131E-05	2.285E-05	2.010E-05
	Y	.0000	1.0	7.450E-04	1.419E-06	1.138E-06	2.646E-05	6.030E-03	1.071E-06	3.256E-04	2.641E-05	1.958E-05	4.027E-05	3.932E-05
	Y	.0000	3.0	4.739E-04	2.328E-06	1.804E-06	4.329E-05	3.656E-03	1.709E-06	5.336E-04	4.358E-05	3.181E-05	6.586E-05	6.681E-05
RN-222	* *	.0000	.0	2.941E-03	2.878E-03	2.877E-03	8.599E-04	5.111E-03	2.877E-03	4.132E-03	2.878E-03	2.878E-03	7.995E-04	8.365E-04
	Y	.0000	.3	4.083E+00	1.832E-03	1.066E-03	4.794E-03	3.384E+01	7.807E-04	4.782E-02	6.233E-02	1.128E-01	4.964E-03	1.340E-02
	Y	.0000	1.0	2.391E+00	2.633E-03	9.785E-04	5.183E-03	1.967E+01	6.462E-04	5.368E-02	9.327E-02	1.692E-01	6.226E-03	2.146E-02
	Y	.0000	3.0	1.280E+00	4.006E-03	1.116E-03	6.756E-03	1.027E+01	6.639E-04	7.181E-02	1.445E-01	2.619E-01	8.892E-03	3.445E-02
RU-103	D	.0500	1.0	2.962E-03	2.584E-03	2.598E-03	2.537E-03	3.922E-03	2.585E-03	1.794E-03	3.398E-03	3.753E-03	2.607E-03	2.798E-03
	W	.0500	1.0	6.579E-03	1.449E-03	1.277E-03	1.292E-03	3.750E-02	1.122E-03	9.044E-04	4.362E-03	6.774E-03	1.704E-03	1.199E-03
	* Y	.0500	1.0	9.143E-03	1.150E-03	1.192E-03	1.206E-03	5.895E-02	9.895E-04	8.642E-04	4.676E-03	6.988E-03	1.885E-03	1.002E-03
RU-105	D	.0500	1.0	3.923E-04	1.034E-04	7.159E-05	7.455E-05	1.520E-03	6.588E-05	5.556E-05	5.355E-04	8.024E-04	8.146E-05	7.694E-05
	W	.0500	1.0	5.916E-04	6.155E-05	4.375E-05	4.646E-05	3.370E-03	3.599E-05	3.254E-05	5.254E-04	8.246E-04	6.344E-05	4.330E-05
	* Y	.0500	1.0	6.532E-04	6.221E-05	3.567E-05	3.942E-05	3.619E-03	2.549E-05	2.537E-05	6.391E-04	1.015E-03	5.719E-05	3.549E-05
RU-106	D	.0500	1.0	5.637E-02	5.322E-02	5.372E-02	5.348E-02	6.943E-02	5.394E-02	5.225E-02	5.691E-02	4.959E-02	5.372E-02	5.420E-02
	W	.0500	1.0	1.179E-01	1.554E-02	1.583E-02	1.577E-02	7.876E-01	1.582E-02	1.527E-02	4.768E-02	7.882E-02	1.621E-02	1.586E-02
	* Y	.0500	1.0	4.777E-01	4.995E-03	6.873E-03	6.734E-03	3.843E+00	6.653E-03	6.097E-03	4.352E-02	7.665E-02	8.774E-03	6.357E-03
RU-97	D	.0500	1.0	2.604E-04	2.412E-04	1.472E-04	1.776E-04	4.330E-04	1.577E-04	8.630E-05	3.248E-04	4.691E-04	1.568E-04	1.482E-04
	W	.0500	1.0	4.600E-04	3.348E-04	1.074E-04	1.457E-04	1.442E-03	6.281E-05	7.674E-05	5.516E-04	8.835E-04	1.426E-04	9.357E-05
	* Y	.0500	1.0	4.928E-04	3.688E-04	9.699E-05	1.385E-04	1.506E-03	4.227E-05	7.234E-05	6.178E-04	1.007E-03	1.332E-04	8.242E-05
S-35	* D	.8000	1.0	2.974E-04	2.204E-04	2.204E-04	2.204E-04	7.720E-04	2.204E-04	2.204E-04	2.564E-04	2.686E-04	2.204E-04	2.204E-04
	W	.8000	1.0	2.508E-03	1.758E-04	1.758E-04	1.758E-04	1.911E-02	1.758E-04	1.758E-04	3.768E-04	5.655E-04	1.758E-04	1.758E-04
SB-124	D	.1000	1.0	5.471E-03	3.058E-03	2.671E-03	5.691E-03	7.926E-03	2.557E-03	1.345E-02	7.305E-03	8.842E-03	9.305E-03	3.209E-03
	* W	.0100	1.0	2.567E-02	3.832E-03	3.421E-03	4.092E-03	1.566E-01	2.630E-03	4.783E-03	1.563E-02	2.415E-02	6.625E-03	2.997E-03
SB-125	D	.1000	1.0	2.250E-03	1.137E-03	1.040E-03	2.647E-03	2.405E-03	1.005E-03	1.430E-02	2.482E-03	2.605E-03	3.866E-03	1.190E-03
	* W	.0100	1.0	1.211E-02	1.352E-03	1.585E-03	2.205E-03	7.849E-02	1.259E-03	6.373E-03	5.417E-03	7.438E-03	3.165E-03	1.275E-03
SB-126	D	.1000	1.0	4.606E-03	3.331E-03	2.490E-03	4.011E-03	6.603E-03	2.380E-03	5.772E-03	6.270E-03	7.853E-03	6.943E-03	2.896E-03
	* W	.0100	1.0	1.226E-02	4.965E-03	2.549E-03	3.058E-03	5.439E-02	1.951E-03	2.483E-03	1.203E-02	1.899E-02	4.460E-03	2.288E-03
SB-126M	D	.1000	1.0	4.517E-05	4.768E-06	6.477E-06	6.089E-06	2.730E-04	5.886E-06	4.250E-06	3.071E-05	1.154E-05	8.122E-06	6.787E-06
	* W	.0100	1.0	5.249E-05	2.088E-06	5.252E-06	4.999E-06	3.904E-04	4.879E-06	3.750E-06	1.158E-05	4.962E-06	8.310E-06	4.414E-06
SB-127	D	.1000	1.0	2.477E-03	8.966E-04	6.886E-04	2.051E-03	5.146E-03	6.590E-04	2.546E-03	3.967E-03	6.298E-03	2.702E-03	7.421E-04
	* W	.0100	1.0	6.450E-03	9.659E-04	3.830E-04	7.050E-04	2.825E-02	2.740E-04	7.296E-04	8.822E-03	1.627E-02	8.294E-04	3.661E-04
SC-46	Y	.0001	1.0	2.993E-02	4.869E-03	8.032E-03	8.174E-03	1.722E-01	7.572E-03	8.967E-03	1.790E-02	1.364E-02	1.571E-02	6.713E-03

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

DCF-INHALATION (REM/MICROCI)

NAME	RESP	GIABS	SIZE MICRONS	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
SE-79		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM-147	W	.0003	1.0	7.513E+01	1.683E-03	1.683E-03	1.023E+02	2.850E+01	1.683E-03	1.281E+03	7.006E+01	2.557E-02	3.502E+02	1.683E-03
SM-151	W	.0003	1.0	3.024E-02	8.733E-07	1.279E-06	4.114E-02	1.219E-02	7.720E-07	5.148E-01	2.797E-02	1.058E-03	1.371E-01	1.342E-06
SM-153	W	.0003	1.0	2.221E-03	9.525E-05	2.969E-05	2.577E-04	9.493E-03	1.282E-05	5.797E-04	3.351E-03	6.053E-03	6.969E-04	2.567E-05
SN-113	D	.0200	1.0	5.875E-03	2.109E-03	2.113E-03	2.145E-02	3.582E-03	2.112E-03	3.250E-02	3.294E-03	3.961E-03	1.859E-03	2.083E-03
	* W	.0200	1.0	1.122E-02	1.188E-03	1.154E-03	5.735E-03	6.864E-02	9.002E-04	8.114E-03	5.190E-03	8.551E-03	1.493E-03	9.371E-04
SN-123		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN-125	D	.0200	1.0	5.598E-03	9.259E-04	8.376E-04	1.293E-02	9.640E-03	7.897E-04	1.554E-02	6.811E-03	1.246E-02	6.879E-04	8.435E-04
	* W	.0200	1.0	1.623E-02	5.858E-04	3.483E-04	2.575E-03	8.892E-02	2.873E-04	2.989E-03	1.651E-02	3.125E-02	4.256E-04	3.199E-04
SN-126	D	.0200	1.0	7.170E-02	3.856E-02	4.122E-02	1.863E-01	4.657E-02	3.931E-02	4.085E-01	4.833E-02	4.168E-02	3.370E-02	4.024E-02
	* W	.0200	1.0	9.494E-02	1.473E-02	1.675E-02	5.634E-02	5.505E-01	1.537E-02	1.151E-01	4.004E-02	5.608E-02	1.861E-02	1.525E-02
SR-89	* D	.3000	1.0	6.524E-03	1.656E-03	1.656E-03	2.105E-02	8.215E-03	1.656E-03	3.131E-02	4.538E-03	7.394E-03	1.656E-03	1.656E-03
	Y	.0100	1.0	4.213E-02	3.197E-05	3.201E-05	4.043E-04	3.132E-01	3.199E-05	6.012E-04	1.487E-02	2.862E-02	3.216E-05	3.196E-05
SR-90	* D	.3000	1.0	2.222E-01	9.433E-03	9.433E-03	1.144E+00	1.352E-02	9.433E-03	2.531E+00	1.094E-02	1.020E-02	1.071E-02	9.433E-03
	Y	.0100	1.0	1.211E+00	9.758E-04	9.758E-04	1.109E-01	9.220E+00	9.757E-04	2.425E-01	2.784E-01	5.298E-01	1.780E-03	9.757E-04
SR-91	* D	.3000	1.0	1.102E-03	3.106E-04	2.478E-04	9.816E-04	3.624E-03	2.424E-04	9.035E-04	1.335E-03	1.994E-03	6.154E-04	2.567E-04
	Y	.0100	1.0	2.046E-03	2.179E-04	8.598E-05	1.110E-04	1.082E-02	5.637E-05	7.013E-05	2.212E-03	3.735E-03	1.378E-04	9.023E-05
SR-92	* D	.3000	1.0	6.744E-04	1.082E-04	9.472E-05	2.192E-04	2.694E-03	8.762E-05	2.362E-04	9.131E-04	1.455E-03	1.537E-04	1.015E-04
	Y	.0100	1.0	1.136E-03	4.067E-05	3.709E-05	3.975E-05	6.496E-03	2.511E-05	2.815E-05	1.114E-03	1.732E-03	6.268E-05	3.841E-05
TB-160	W	.0003	1.0	2.539E-02	3.531E-03	3.635E-03	1.659E-02	1.139E-01	2.481E-03	9.235E-02	1.817E-02	1.767E-02	3.410E-02	7.859E-03
TC-101		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC-97	D	.8000	1.0	1.239E-04	3.728E-05	3.122E-05	3.563E-05	1.710E-04	4.953E-04	2.142E-05	2.321E-04	5.199E-05	3.709E-05	2.767E-05
	* W	.8000	1.0	1.002E-03	3.358E-05	8.485E-05	4.996E-05	7.371E-03	4.368E-04	3.511E-05	2.550E-04	1.209E-04	6.781E-05	2.464E-05
TC-99	D	.8000	1.0	1.031E-03	1.755E-04	1.755E-04	1.755E-04	1.325E-03	4.536E-03	1.755E-04	2.132E-03	4.198E-04	2.304E-04	1.755E-04
	* W	.8000	1.0	8.391E-03	1.548E-04	1.548E-04	1.548E-04	6.245E-02	4.000E-03	1.548E-04	2.306E-03	1.160E-03	2.032E-04	1.548E-04
TC-99M	D	.8000	1.0	3.315E-05	9.167E-06	9.161E-06	1.283E-05	9.039E-05	1.923E-04	6.667E-06	3.709E-05	1.997E-05	1.186E-05	9.582E-06
	* W	.8000	1.0	3.720E-05	6.041E-06	8.032E-06	1.179E-05	1.883E-04	8.159E-05	7.529E-06	2.599E-05	1.636E-05	1.281E-05	7.169E-06
TE-125M	D	.2000	1.0	5.757E-03	4.764E-04	4.291E-04	1.122E-02	1.764E-03	4.046E-04	1.222E-01	1.122E-03	1.779E-03	3.935E-04	4.054E-04
	* W	.2000	1.0	7.444E-03	3.022E-04	2.767E-04	4.295E-03	3.916E-02	1.576E-04	4.524E-02	2.501E-03	4.579E-03	2.912E-04	1.648E-04
TE-127	D	.2000	1.0	2.569E-04	2.731E-05	2.698E-05	4.842E-05	1.075E-03	2.688E-05	3.866E-05	3.643E-04	6.108E-04	2.707E-05	2.700E-05
	* W	.2000	1.0	4.299E-04	8.307E-06	7.890E-06	1.398E-05	2.488E-03	7.739E-06	1.109E-05	4.194E-04	7.154E-04	8.104E-06	7.878E-06
TE-127M	D	.2000	1.0	1.366E-02	9.875E-04	9.761E-04	5.145E-02	3.381E-03	9.614E-04	1.974E-01	2.465E-03	3.874E-03	9.518E-04	9.594E-04
	* W	.2000	1.0	2.172E-02	4.543E-04	4.537E-04	2.018E-02	1.195E-01	4.036E-04	7.711E-02	8.172E-03	1.504E-02	4.611E-04	4.061E-04
TE-129	D	.2000	1.0	1.022E-04	7.228E-06	7.088E-06	5.997E-06	5.950E-04	6.906E-06	1.797E-06	8.977E-05	7.211E-05	7.339E-06	7.144E-06
	* W	.2000	1.0	1.368E-04	2.094E-06	2.478E-06	2.158E-06	1.062E-03	2.310E-06	8.819E-07	2.724E-05	2.164E-05	2.889E-06	2.336E-06
TE-129M	D	.2000	1.0	9.250E-03	1.574E-03	1.550E-03	3.210E-02	7.968E-03	1.538E-03	7.497E-02	5.068E-03	8.539E-03	1.518E-03	1.543E-03
	* W	.2000	1.0	2.405E-02	6.859E-04	6.569E-04	1.139E-02	1.500E-01	6.115E-04	2.639E-02	1.199E-02	2.242E-02	7.041E-04	6.146E-04
TE-131	D	.2000	1.0	1.222E-04	4.076E-06	4.938E-06	4.232E-06	3.761E-04	2.107E-03	2.276E-06	3.846E-05	1.529E-05	5.511E-06	4.703E-06
	* W	.2000	1.0	1.235E-04	1.552E-06	3.348E-06	3.136E-06	5.938E-04	1.606E-03	2.329E-06	9.254E-06	3.786E-06	4.564E-06	2.686E-06
TE-131M	D	.2000	1.0	3.469E-03	7.402E-04	4.841E-04	8.739E-04	3.779E-03	6.468E-02	2.392E-03	2.135E-03	3.540E-03	5.018E-04	4.964E-04
	* W	.2000	1.0	4.760E-03	9.158E-04	4.163E-04	5.785E-04	1.304E-02	5.632E-02	8.986E-04	3.727E-03	6.348E-03	5.433E-04	3.955E-04
TE-132	D	.2000	1.0	3.725E-03	1.873E-03	1.322E-03	3.244E-03	7.086E-03	7.950E-03	7.066E-03	4.562E-03	7.681E-03	1.308E-03	1.353E-03

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

DCF-INHALATION (REM/MICROCI)

NAME	RESP	GIABS	SIZE MICRONS	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
	* W	.2000	1.0	8.080E-03	2.484E-03	1.191E-03	1.887E-03	3.367E-02	4.137E-03	2.675E-03	9.363E-03	1.643E-02	1.510E-03	1.092E-03
TE-133		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE-133M		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE-134		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TH-227	W	.0002	1.0	9.552E+00	9.756E-02	9.744E-02	2.733E+00	6.755E+01	9.734E-02	3.342E+01	2.470E-01	2.159E-01	5.393E-01	8.274E-02
	* Y	.0002	1.0	1.181E+01	2.603E-02	2.594E-02	2.631E-01	9.708E+01	2.581E-02	3.072E+00	9.786E-02	1.578E-01	4.425E-02	1.942E-02
TH-228	W	.0002	.3	1.445E+02	2.417E+00	2.416E+00	1.760E+02	4.616E+02	2.412E+00	2.173E+03	6.061E+00	3.007E+00	1.897E+01	2.577E+00
	W	.0002	1.0	1.132E+02	2.148E+00	2.148E+00	1.600E+02	2.677E+02	2.145E+00	1.976E+03	5.378E+00	2.550E+00	1.719E+01	2.235E+00
	W	.0002	3.0	1.033E+02	2.247E+00	2.247E+00	1.709E+02	1.401E+02	2.244E+00	2.111E+03	5.623E+00	2.560E+00	1.830E+01	2.284E+00
	Y	.0002	.3	4.383E+02	1.323E+00	1.321E+00	4.304E+01	3.463E+03	1.311E+00	5.253E+02	3.905E+00	4.295E+00	5.618E+00	2.296E+00
	* Y	.0002	1.0	2.547E+02	8.193E-01	8.178E-01	2.890E+01	1.997E+03	8.122E-01	3.533E+02	2.423E+00	2.609E+00	3.678E+00	1.381E+00
	Y	.0002	3.0	1.342E+02	5.157E-01	5.146E-01	2.172E+01	1.025E+03	5.115E-01	2.664E+02	1.534E+00	1.564E+00	2.628E+00	8.066E-01
TH-229	W	.0002	1.0	5.044E+02	2.831E+00	2.842E+00	9.778E+02	1.374E+02	2.837E+00	1.224E+04	7.256E+00	2.957E+00	2.455E+01	2.796E+00
	* Y	.0002	1.0	7.058E+02	1.533E+00	1.595E+00	3.921E+02	4.245E+03	1.569E+00	4.904E+03	5.107E+00	2.480E+00	1.672E+01	1.525E+00
TH-230	W	.0002	.3	3.566E+02	1.747E+00	1.747E+00	6.934E+02	1.023E+02	1.747E+00	8.635E+03	4.370E+00	1.783E+00	1.477E+01	1.747E+00
	W	.0002	1.0	3.150E+02	1.561E+00	1.561E+00	6.198E+02	6.016E+01	1.561E+00	7.718E+03	3.909E+00	1.603E+00	1.320E+01	1.561E+00
	W	.0002	3.0	3.274E+02	1.640E+00	1.640E+00	6.515E+02	3.283E+01	1.640E+00	8.113E+03	4.115E+00	1.699E+00	1.387E+01	1.640E+00
	Y	.0002	.3	4.236E+02	1.055E+00	1.056E+00	4.006E+02	1.872E+03	1.055E+00	4.989E+03	2.652E+00	1.100E+00	8.925E+00	1.055E+00
	* Y	.0002	1.0	2.517E+02	6.466E-01	6.467E-01	2.461E+02	1.079E+03	6.466E-01	3.065E+03	1.638E+00	7.002E-01	5.468E+00	6.466E-01
	Y	.0002	3.0	1.419E+02	3.962E-01	3.963E-01	1.519E+02	5.540E+02	3.962E-01	1.892E+03	1.025E+00	4.710E-01	3.350E+00	3.962E-01
TH-231	W	.0002	1.0	9.617E-04	2.400E-05	1.290E-05	2.328E-04	3.918E-03	8.326E-06	2.697E-03	1.248E-03	2.309E-03	2.122E-05	4.675E-06
	* Y	.0002	1.0	9.821E-04	2.633E-05	6.440E-06	5.355E-05	4.250E-03	1.403E-06	5.435E-04	1.472E-03	2.729E-03	1.618E-05	2.807E-06
TH-232	W	.0002	.3	3.242E+02	1.541E+00	1.542E+00	6.304E+02	8.807E+01	1.540E+00	7.872E+03	3.823E+00	1.573E+00	1.286E+01	1.522E+00
	W	.0002	1.0	2.865E+02	1.374E+00	1.375E+00	5.634E+02	5.181E+01	1.373E+00	7.035E+03	3.416E+00	1.411E+00	1.148E+01	1.357E+00
	W	.0002	3.0	2.980E+02	1.442E+00	1.442E+00	5.921E+02	2.828E+01	1.441E+00	7.394E+03	3.592E+00	1.493E+00	1.206E+01	1.423E+00
	Y	.0002	.3	6.177E+02	1.936E+00	1.968E+00	4.086E+02	3.448E+03	1.962E+00	5.092E+03	4.168E+00	2.124E+00	1.246E+01	2.003E+00
	Y	.0002	1.0	3.597E-02	7.440E-05	5.857E-05	8.927E-04	2.435E-01	4.462E-05	1.518E-03	2.188E-02	4.201E-02	2.116E-04	4.375E-05
	* Y	.0002	1.0	3.629E+02	1.149E+00	1.168E+00	2.494E+02	1.987E+03	1.164E+00	3.108E+03	2.497E+00	1.281E+00	7.464E+00	1.187E+00
	Y	.0002	3.0	1.977E+02	6.456E-01	6.553E-01	1.512E+02	1.019E+03	6.532E-01	1.885E+03	1.440E+00	7.537E-01	4.301E+00	6.645E-01
TH-234	W	.0002	.3	4.320E-02	3.700E-04	3.754E-04	1.322E-02	2.996E-01	3.587E-04	2.330E-02	1.600E-02	2.974E-02	2.476E-03	3.202E-04
	W	.0002	1.0	3.057E-02	4.357E-04	4.179E-04	1.545E-02	1.790E-01	4.039E-04	2.725E-02	2.079E-02	3.880E-02	2.861E-03	3.617E-04
	W	.0002	3.0	2.510E-02	5.657E-04	5.206E-04	1.980E-02	1.027E-01	5.062E-04	3.493E-02	3.040E-02	5.698E-02	3.640E-03	4.545E-04
	* Y	.0002	.3	5.400E-02	5.390E-05	7.064E-05	5.871E-04	4.105E-01	5.243E-05	9.583E-04	1.537E-02	2.947E-02	1.877E-04	4.819E-05
	Y	.0002	3.0	2.663E-02	1.111E-04	6.014E-05	1.392E-03	1.368E-01	4.716E-05	2.406E-03	3.314E-02	6.367E-02	2.827E-04	4.937E-05
TL-207	D	.9500	1.0	8.495E-06	1.043E-07	1.054E-07	1.575E-07	6.535E-05	1.053E-07	1.180E-07	1.951E-06	1.365E-07	1.064E-07	7.017E-07
TL-208	D	.9500	.3	9.157E-06	2.644E-07	1.262E-06	1.226E-06	6.561E-05	1.073E-06	9.577E-07	2.738E-06	3.755E-07	2.139E-06	1.194E-06
	* D	.9500	1.0	9.601E-06	3.681E-07	1.381E-06	1.345E-06	6.580E-05	1.168E-06	1.035E-06	3.928E-06	5.392E-07	2.278E-06	1.577E-06
	D	.9500	3.0	1.223E-05	5.506E-07	1.807E-06	1.762E-06	8.087E-05	1.517E-06	1.341E-06	6.056E-06	8.258E-07	2.928E-06	2.291E-06
TL-209	D	.9500	1.0	8.161E-06	1.832E-07	6.828E-07	1.186E-06	5.688E-05	5.149E-07	6.876E-06	2.742E-06	1.806E-06	1.876E-06	1.253E-06
U-232	D	.0500	1.0	7.128E+00	2.559E-01	2.208E-01	7.588E+00	1.451E+00	2.187E-01	1.200E+02	7.795E+00	2.352E-01	2.495E-01	3.803E+01
	D	.2000	1.0	7.467E+00	2.681E-01	2.313E-01	7.958E+00	1.461E+00	2.291E-01	1.259E+02	8.174E+00	2.429E-01	2.601E-01	3.988E+01
	W	.0500	1.0	1.188E+01	1.788E-01	1.479E-01	2.486E+00	8.000E+01	1.472E-01	3.850E+01	2.523E+00	2.156E-01	4.880E-01	1.151E+01

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

DCF-INHALATION (REM/MICROCI)

NAME	RESP	GIABS	SIZE MICRONS	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
	W	.2000	1.0	1.299E+01	2.183E-01	1.821E-01	3.692E+00	8.004E+01	1.810E-01	5.758E+01	3.756E+00	2.408E-01	5.226E-01	1.756E+01
	* Y	.0020	1.0	4.805E+02	1.646E+00	1.375E+00	3.949E+00	3.974E+03	1.368E+00	4.857E+01	3.612E+00	2.129E+00	6.503E+00	5.501E+00
U-233	D	.0500	1.0	2.699E+00	9.505E-02	9.506E-02	2.531E+00	1.210E+00	9.505E-02	4.010E+01	3.355E+00	1.096E-01	9.505E-02	1.636E+01
	D	.2000	1.0	2.824E+00	9.970E-02	9.970E-02	2.655E+00	1.215E+00	9.970E-02	4.206E+01	3.517E+00	1.118E-01	9.970E-02	1.716E+01
	W	.0500	1.0	8.032E+00	2.858E-02	2.859E-02	7.607E-01	6.048E+01	2.858E-02	1.205E+01	1.032E+00	7.733E-02	2.858E-02	4.918E+00
	W	.2000	1.0	8.439E+00	4.372E-02	4.373E-02	1.164E+00	6.049E+01	4.372E-02	1.844E+01	1.561E+00	8.467E-02	4.372E-02	7.523E+00
	* Y	.0020	1.0	1.338E+02	9.968E-03	1.008E-02	2.593E-01	1.112E+03	9.983E-03	4.104E+00	3.809E-01	6.793E-02	1.006E-02	1.714E+00
U-234	D	.0500	.3	3.106E+00	1.068E-01	1.068E-01	2.858E+00	1.978E+00	1.068E-01	4.508E+01	3.759E+00	1.107E-01	1.068E-01	1.836E+01
	D	.2000	.3	3.144E+00	1.082E-01	1.082E-01	2.895E+00	1.980E+00	1.082E-01	4.567E+01	3.807E+00	1.114E-01	1.082E-01	1.859E+01
	D	.0500	1.0	2.670E+00	9.396E-02	9.397E-02	2.515E+00	1.195E+00	9.396E-02	3.967E+01	3.313E+00	1.084E-01	9.396E-02	1.615E+01
	D	.2000	1.0	2.793E+00	9.855E-02	9.856E-02	2.638E+00	1.200E+00	9.855E-02	4.161E+01	3.473E+00	1.106E-01	9.855E-02	1.694E+01
	D	.0500	3.0	2.810E+00	1.013E-01	1.013E-01	2.711E+00	7.033E-01	1.013E-01	4.276E+01	3.578E+00	1.300E-01	1.013E-01	1.741E+01
	D	.2000	3.0	3.051E+00	1.103E-01	1.103E-01	2.951E+00	7.123E-01	1.103E-01	4.655E+01	3.892E+00	1.343E-01	1.103E-01	1.896E+01
	W	.0500	.3	1.312E+01	3.052E-02	3.053E-02	8.162E-01	1.025E+02	3.051E-02	1.287E+01	1.096E+00	7.407E-02	3.052E-02	5.245E+00
	W	.2000	.3	1.348E+01	4.394E-02	4.396E-02	1.175E+00	1.025E+02	4.394E-02	1.854E+01	1.565E+00	8.052E-02	4.395E-02	7.553E+00
	W	.0500	1.0	7.935E+00	2.825E-02	2.826E-02	7.558E-01	5.974E+01	2.825E-02	1.192E+01	1.019E+00	7.684E-02	2.825E-02	4.856E+00
	W	.2000	1.0	8.338E+00	4.322E-02	4.323E-02	1.156E+00	5.976E+01	4.322E-02	1.824E+01	1.542E+00	8.403E-02	4.322E-02	7.429E+00
	W	.0500	3.0	4.664E+00	3.113E-02	3.113E-02	8.328E-01	3.182E+01	3.112E-02	1.314E+01	1.129E+00	9.628E-02	3.112E-02	5.350E+00
	W	.2000	3.0	5.203E+00	5.119E-02	5.119E-02	1.370E+00	3.184E+01	5.118E-02	2.160E+01	1.829E+00	1.059E-01	5.118E-02	8.798E+00
	Y	.0020	.3	2.292E+02	1.592E-02	1.616E-02	4.157E-01	1.906E+03	1.593E-02	6.551E+00	5.862E-01	6.641E-02	1.605E-02	2.736E+00
	* Y	.0020	1.0	1.321E+02	9.853E-03	9.986E-03	2.576E-01	1.099E+03	9.851E-03	4.060E+00	3.764E-01	6.762E-02	9.921E-03	1.693E+00
	Y	.0020	3.0	6.787E+01	6.191E-03	6.255E-03	1.624E-01	5.641E+02	6.185E-03	2.560E+00	2.579E-01	8.410E-02	6.221E-03	1.063E+00
U-235	D	.0500	1.0	2.542E+00	9.144E-02	9.211E-02	2.471E+00	1.110E+00	9.164E-02	3.837E+01	3.072E+00	1.071E-01	7.600E-02	1.495E+01
	D	.2000	1.0	2.660E+00	9.588E-02	9.660E-02	2.592E+00	1.115E+00	9.612E-02	4.025E+01	3.220E+00	1.091E-01	7.971E-02	1.568E+01
	W	.0500	1.0	7.368E+00	2.803E-02	2.828E-02	7.435E-01	5.529E+01	2.787E-02	1.153E+01	9.542E-01	9.104E-02	2.383E-02	4.495E+00
	W	.2000	1.0	7.752E+00	4.251E-02	4.294E-02	1.137E+00	5.531E+01	4.246E-02	1.764E+01	1.438E+00	9.733E-02	3.592E-02	6.876E+00
	* Y	.0020	1.0	1.223E+02	1.177E-02	2.003E-02	2.656E-01	1.017E+03	1.549E-02	3.938E+00	4.131E-01	1.743E-01	2.570E-02	1.573E+00
U-236	D	.0500	1.0	2.527E+00	8.886E-02	8.886E-02	2.375E+00	1.131E+00	8.886E-02	3.749E+01	3.143E+00	1.026E-01	8.886E-02	1.532E+01
	D	.2000	1.0	2.643E+00	9.320E-02	9.320E-02	2.491E+00	1.135E+00	9.320E-02	3.933E+01	3.295E+00	1.047E-01	9.320E-02	1.607E+01
	W	.0500	1.0	7.509E+00	2.672E-02	2.672E-02	7.137E-01	5.653E+01	2.671E-02	1.127E+01	9.666E-01	7.272E-02	2.672E-02	4.607E+00
	W	.2000	1.0	7.890E+00	4.087E-02	4.088E-02	1.092E+00	5.654E+01	4.087E-02	1.724E+01	1.462E+00	7.953E-02	4.087E-02	7.048E+00
	* Y	.0020	1.0	1.250E+02	9.317E-03	9.439E-03	2.432E-01	1.040E+03	9.314E-03	3.838E+00	3.570E-01	6.399E-02	9.375E-03	1.606E+00
U-237	D	.0500	1.0	1.994E-03	2.073E-04	1.352E-04	1.529E-03	2.319E-03	1.141E-04	1.527E-02	3.329E-03	2.905E-03	1.473E-04	8.883E-03
	D	.2000	1.0	1.984E-03	1.969E-04	1.396E-04	1.599E-03	2.325E-03	1.196E-04	1.603E-02	3.194E-03	2.469E-03	1.525E-04	9.326E-03
	W	.0500	1.0	3.561E-03	2.791E-04	1.112E-04	4.674E-04	1.735E-02	5.833E-05	3.194E-03	4.132E-03	7.106E-03	1.531E-04	1.866E-03
	W	.2000	1.0	3.535E-03	2.529E-04	1.221E-04	6.423E-04	1.736E-02	7.206E-05	5.106E-03	3.793E-03	6.013E-03	1.662E-04	2.976E-03
	* Y	.0020	1.0	3.772E-03	3.080E-04	9.990E-05	2.047E-04	1.913E-02	4.099E-05	2.665E-04	4.502E-03	8.456E-03	1.436E-04	1.648E-04
U-238	D	.0500	.3	2.793E+00	9.609E-02	9.625E-02	3.017E+00	1.748E+00	9.603E-02	3.906E+01	3.359E+00	9.934E-02	8.195E-02	1.640E+01
	D	.2000	.3	2.826E+00	9.733E-02	9.749E-02	3.056E+00	1.749E+00	9.728E-02	3.957E+01	3.402E+00	9.991E-02	8.301E-02	1.661E+01
	D	.0500	1.0	2.401E+00	8.453E-02	8.466E-02	2.654E+00	1.056E+00	8.448E-02	3.437E+01	2.960E+00	9.753E-02	7.201E-02	1.443E+01
	D	.2000	1.0	2.512E+00	8.865E-02	8.880E-02	2.784E+00	1.061E+00	8.860E-02	3.605E+01	3.104E+00	9.945E-02	7.551E-02	1.514E+01
	D	.0500	3.0	2.528E+00	9.110E-02	9.125E-02	2.861E+00	6.224E-01	9.104E-02	3.705E+01	3.198E+00	1.172E-01	7.751E-02	1.556E+01

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

DCF-INHALATION (REM/MICROCI)

NAME	RESP	GIABS	SIZE MICRONS	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
	D	.2000	3.0	2.745E+00	9.917E-02	9.933E-02	3.114E+00	6.305E-01	9.911E-02	4.033E+01	3.478E+00	1.210E-01	8.437E-02	1.694E+01
	W	.0500	.3	1.165E+01	2.778E-02	2.792E-02	8.694E-01	9.083E+01	2.780E-02	1.117E+01	9.930E-01	9.234E-02	2.494E-02	4.687E+00
	W	.2000	.3	1.197E+01	3.984E-02	4.001E-02	1.248E+00	9.084E+01	3.986E-02	1.608E+01	1.412E+00	9.795E-02	3.520E-02	6.749E+00
	W	.0500	1.0	7.047E+00	2.561E-02	2.570E-02	8.022E-01	5.295E+01	2.561E-02	1.034E+01	9.188E-01	8.473E-02	2.254E-02	4.339E+00
	W	.2000	1.0	7.409E+00	3.906E-02	3.918E-02	1.225E+00	5.296E+01	3.905E-02	1.581E+01	1.386E+00	9.098E-02	3.397E-02	6.638E+00
	W	.0500	3.0	4.147E+00	2.811E-02	2.817E-02	8.812E-01	2.819E+01	2.808E-02	1.139E+01	1.014E+00	9.598E-02	2.429E-02	4.780E+00
	W	.2000	3.0	4.632E+00	4.613E-02	4.623E-02	1.448E+00	2.821E+01	4.611E-02	1.872E+01	1.639E+00	1.044E-01	3.962E-02	7.861E+00
	Y	.0020	.3	2.039E+02	1.565E-02	1.841E-02	4.658E-01	1.695E+03	1.709E-02	5.717E+00	6.243E-01	2.501E-01	2.019E-02	2.447E+00
	* Y	.0020	1.0	1.175E+02	9.642E-03	1.122E-02	2.875E-01	9.774E+02	1.045E-02	3.541E+00	3.948E-01	1.715E-01	1.215E-02	1.514E+00
	Y	.0020	3.0	6.038E+01	5.993E-03	6.777E-03	1.794E-01	5.017E+02	6.378E-03	2.230E+00	2.615E-01	1.341E-01	7.098E-03	9.503E-01
U-240	D	.0500	1.0	1.762E-03	1.490E-04	1.164E-04	8.329E-04	4.510E-03	1.075E-04	6.853E-03	2.858E-03	3.463E-03	9.569E-04	4.104E-03
	D	.2000	1.0	1.717E-03	1.440E-04	1.205E-04	8.652E-04	4.515E-03	1.126E-04	7.100E-03	2.669E-03	3.014E-03	9.799E-04	4.324E-03
	W	.0500	1.0	2.301E-03	1.125E-04	5.825E-05	2.665E-04	1.105E-02	4.448E-05	2.111E-03	2.805E-03	4.623E-03	3.764E-04	9.565E-04
	W	.2000	1.0	2.238E-03	1.057E-04	6.383E-05	3.102E-04	1.106E-02	5.140E-05	2.446E-03	2.543E-03	4.014E-03	4.076E-04	1.255E-03
	* Y	.0020	1.0	2.509E-03	1.156E-04	3.896E-05	1.009E-04	1.209E-02	2.214E-05	7.009E-04	3.299E-03	5.783E-03	1.946E-04	8.742E-05
W-181	D	.3000	1.0	1.576E-04	4.682E-05	2.749E-05	1.948E-04	2.026E-04	1.627E-05	2.619E-04	2.856E-04	1.932E-04	1.181E-04	4.550E-04
W-185	D	.3000	1.0	7.740E-04	2.025E-05	2.023E-05	3.233E-04	1.454E-03	2.022E-05	9.419E-04	1.746E-03	1.447E-03	4.397E-04	2.554E-03
W-187	D	.3000	1.0	6.651E-04	1.591E-04	8.160E-05	1.136E-04	2.347E-03	6.823E-05	2.227E-04	1.030E-03	1.734E-03	1.007E-04	2.846E-04
XE-122	*	.0000	.0	4.855E-06	3.898E-06	4.029E-06	4.021E-06	1.059E-05	5.982E-06	3.475E-06	4.129E-06	2.232E-06	4.044E-06	4.173E-06
XE-123	*	.0000	.0	9.675E-07	7.088E-07	7.323E-07	7.734E-07	2.155E-06	2.757E-06	5.219E-07	7.689E-07	4.544E-07	7.407E-07	7.789E-07
XE-125	*	.0000	.0	5.468E-07	4.823E-07	4.240E-07	5.111E-07	7.486E-07	2.241E-06	2.552E-07	4.552E-07	2.967E-07	4.275E-07	4.358E-07
XE-127	*	.0000	.0	6.638E-07	6.900E-07	5.693E-07	6.827E-07	8.936E-07	6.681E-07	3.370E-07	6.220E-07	4.003E-07	5.762E-07	5.829E-07
XE-131M	*	.0000	.0	6.721E-07	5.569E-07	5.604E-07	6.037E-07	1.453E-06	5.642E-07	5.318E-07	5.641E-07	3.031E-07	5.537E-07	5.643E-07
XE-133	*	.0000	.0	6.687E-07	5.518E-07	5.584E-07	6.404E-07	1.405E-06	5.710E-07	5.013E-07	5.647E-07	3.182E-07	5.505E-07	5.641E-07
XE-133M	*	.0000	.0	8.339E-07	6.897E-07	6.829E-07	7.239E-07	1.879E-06	6.903E-07	6.421E-07	6.890E-07	3.677E-07	6.796E-07	6.860E-07
XE-135	*	.0000	.0	1.211E-06	1.015E-06	9.439E-07	9.660E-07	2.941E-06	9.984E-07	8.283E-07	9.729E-07	5.207E-07	9.562E-07	9.510E-07
XE-135M	*	.0000	.0	2.832E-07	1.778E-07	2.050E-07	1.987E-07	9.034E-07	2.071E-07	1.413E-07	2.177E-07	1.209E-07	2.137E-07	2.182E-07
XE-137	*	.0000	.0	2.265E-06	1.130E-06	1.124E-06	1.129E-06	1.052E-05	1.123E-06	1.287E-06	1.145E-06	2.412E-08	1.138E-06	1.133E-06
XE-138	*	.0000	.0	3.574E-06	2.135E-06	2.158E-06	2.109E-06	1.379E-05	2.302E-06	1.792E-06	2.287E-06	1.224E-06	2.198E-06	2.325E-06
Y-90	W	.0001	1.0	8.767E-03	3.881E-05	3.880E-05	1.047E-03	3.955E-02	3.880E-05	1.033E-03	1.282E-02	2.401E-02	1.020E-03	3.880E-05
	* Y	.0001	1.0	9.413E-03	2.133E-06	2.131E-06	5.750E-05	4.176E-02	2.130E-06	5.671E-05	1.464E-02	2.784E-02	5.598E-05	2.130E-06
Y-90M		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y-91	W	.0001	1.0	3.286E-02	4.285E-04	4.283E-04	2.087E-02	1.985E-01	4.261E-04	2.071E-02	1.910E-02	2.878E-02	2.049E-02	4.296E-04
	* Y	.0001	1.0	4.922E-02	3.175E-05	3.439E-05	1.209E-03	3.690E-01	3.282E-05	1.197E-03	1.583E-02	3.003E-02	1.194E-03	3.278E-05
Y-91M	W	.0001	1.0	3.320E-05	2.634E-06	5.209E-06	2.086E-05	1.926E-04	4.768E-06	1.943E-05	1.806E-05	1.918E-05	2.291E-05	4.718E-06
	* Y	.0001	1.0	4.228E-05	1.463E-06	4.061E-06	4.893E-06	2.969E-04	3.523E-06	3.952E-06	1.619E-05	2.088E-05	7.972E-06	3.519E-06
Y-92	W	.0001	1.0	1.115E-03	1.996E-05	1.920E-05	4.829E-05	7.581E-03	1.784E-05	4.138E-05	6.323E-04	8.885E-04	4.563E-05	1.924E-05
	* Y	.0001	1.0	1.220E-03	1.035E-05	8.339E-06	1.015E-05	8.189E-03	6.539E-06	7.255E-06	7.740E-04	1.099E-03	1.474E-05	8.373E-06
Y-93	W	.0001	1.0	2.582E-03	3.477E-05	2.532E-05	1.533E-04	1.390E-02	2.258E-05	1.438E-04	2.925E-03	5.067E-03	1.449E-04	2.546E-05
	* Y	.0001	1.0	2.838E-03	2.044E-05	8.364E-06	1.675E-05	1.482E-02	4.999E-06	1.269E-05	3.504E-03	6.128E-03	1.869E-05	8.453E-06
ZN-65	Y	.5000	1.0	2.052E-02	7.017E-03	1.274E-02	1.356E-02	7.819E-02	1.408E-02	9.063E-03	1.719E-02	7.347E-03	1.618E-02	1.224E-02
ZN-69	Y	.5000	1.0	6.891E-05	1.091E-07	1.091E-07	1.042E-07	5.448E-04	1.091E-07	6.326E-08	1.158E-05	7.264E-06	1.092E-07	1.091E-07

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

DCF-INHALATION (REM/MICROCI)

NAME	RESP	GIABS	SIZE MICRONS	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
ZN-69M	Y	.5000	1.0	1.039E-03	1.253E-04	7.861E-05	1.204E-04	5.485E-03	6.389E-05	8.750E-05	1.063E-03	1.769E-03	1.030E-04	7.791E-05
ZR-93	D	.0020	1.0	1.832E-01	4.424E-05	4.776E-05	3.717E-01	2.681E-04	4.362E-05	4.617E+00	1.999E-04	3.458E-04	4.395E-05	4.269E-05
	* W	.0020	1.0	4.805E-02	1.569E-05	1.259E-05	9.421E-02	1.222E-02	1.147E-05	1.170E+00	5.533E-04	1.057E-03	1.158E-05	1.635E-05
	Y	.0020	1.0	5.192E-02	1.735E-04	4.384E-05	3.806E-02	2.746E-01	1.741E-05	4.715E-01	6.979E-04	1.226E-03	3.133E-05	1.782E-04
ZR-95	D	.0020	1.0	2.026E-02	5.716E-03	5.878E-03	3.982E-02	6.809E-03	4.719E-03	3.292E-01	7.793E-03	7.028E-03	4.241E-03	5.781E-03
	* W	.0020	1.0	1.439E-02	2.916E-03	2.986E-03	1.000E-02	6.356E-02	2.548E-03	6.896E-02	7.475E-03	9.814E-03	3.820E-03	2.699E-03
	Y	.0020	1.0	2.071E-02	2.297E-03	3.817E-03	4.217E-03	1.324E-01	3.551E-03	7.415E-03	9.472E-03	1.003E-02	6.487E-03	3.029E-03
ZZ-999		.0000	.0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

DCF-INGESTION (REM-MICROCI)

NAME	GIABS	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
AC-225	.0010	1.027E-01	2.092E-02	1.483E-02	3.182E-02	1.414E-02	1.401E-02	2.613E-01	2.715E-01	4.899E-01	7.140E-02	4.375E-03
AC-227	.0010	4.315E+00	9.773E-01	2.331E-04	6.006E+00	3.468E-04	1.386E-04	7.524E+01	3.642E+00	1.219E-02	1.818E+01	4.517E-04
AC-228	.0010	1.675E-03	5.447E-04	8.957E-05	4.222E-04	3.142E-05	7.880E-06	3.672E-03	4.537E-03	7.203E-03	3.105E-04	1.479E-04
AG-109M	.0500	3.284E-07	5.360E-10	1.932E-09	1.254E-09	1.848E-09	2.255E-11	8.170E-10	1.092E-06	1.374E-08	1.239E-09	2.198E-09
AG-110	.0500	2.986E-06	1.977E-09	3.074E-09	2.260E-09	3.944E-09	3.493E-10	1.304E-09	9.947E-06	6.646E-08	4.371E-09	7.107E-09
AG-110M	.0500	1.070E-02	1.100E-02	2.865E-03	3.490E-03	3.074E-03	8.332E-04	1.690E-03	2.217E-02	2.674E-02	3.175E-02	5.602E-03
AG-111	.0500	5.058E-03	1.336E-04	4.132E-05	5.196E-05	3.373E-05	2.897E-05	3.641E-05	1.669E-02	3.066E-02	3.402E-03	4.703E-05
AM-241	.0010	4.431E+00	1.001E+00	9.709E-02	6.326E+00	9.713E-02	9.703E-02	7.800E+01	3.507E+00	2.133E-01	1.685E+01	9.716E-02
AM-242	.0010	1.430E-03	1.014E-04	1.190E-05	4.814E-04	9.017E-06	8.528E-06	5.796E-03	3.899E-03	6.563E-03	1.506E-03	1.276E-05
AM-242M	.0010	4.308E+00	9.837E-01	9.448E-02	6.189E+00	9.451E-02	9.445E-02	7.627E+01	3.345E+00	1.124E-01	1.630E+01	9.452E-02
AM-243	.0010	4.428E+00	9.977E-01	9.764E-02	6.319E+00	9.795E-02	9.732E-02	7.811E+01	3.493E+00	2.164E-01	1.677E+01	9.827E-02
AR-41	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS-76	.5000	5.186E-03	8.054E-04	4.273E-04	4.570E-04	3.775E-04	3.727E-04	3.751E-04	1.599E-02	2.832E-02	1.071E-03	1.322E-03
AT-217	.9500	8.978E-09	8.553E-10	3.241E-10	3.560E-10	2.585E-10	9.505E-11	1.529E-10	2.878E-08	8.417E-09	3.573E-10	7.208E-10
BA-133	.1000	3.613E-03	2.845E-03	1.235E-03	5.775E-03	1.013E-03	1.000E-03	8.357E-03	5.404E-03	8.950E-03	8.822E-04	1.116E-03
BA-133M	.1000	2.091E-03	2.429E-04	3.293E-05	1.172E-04	1.461E-05	1.240E-05	1.080E-04	6.686E-03	1.250E-02	2.770E-05	3.364E-05
BA-137M	.1000	2.550E-06	3.456E-07	3.743E-07	2.923E-07	4.594E-07	4.051E-08	1.608E-07	7.704E-06	9.780E-07	5.264E-07	8.604E-07
BA-139	.1000	3.985E-04	6.049E-06	2.214E-06	3.356E-06	1.742E-06	1.308E-06	1.612E-06	1.320E-03	1.205E-03	2.522E-06	3.239E-06
BA-140	.1000	9.422E-03	3.640E-03	5.926E-04	1.664E-03	2.642E-04	2.013E-04	2.004E-03	2.708E-02	5.153E-02	8.683E-04	5.876E-04
BA-141	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA-142	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE-10	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE-7	.0050	1.261E-04	2.100E-04	2.589E-05	4.567E-05	5.260E-06	2.363E-06	1.848E-05	2.097E-04	3.315E-04	1.910E-05	2.714E-05
BI-210	.0500	1.832E-02	9.274E-04	9.274E-04	1.388E-03	9.274E-04	9.274E-04	9.434E-03	5.788E-02	3.301E-02	2.265E-03	1.874E-01
*	.0500	6.427E-03	7.508E-05	7.508E-05	1.119E-04	7.508E-05	7.508E-05	6.895E-04	2.117E-02	3.217E-02	7.505E-05	2.176E-02
BI-211	.0500	2.303E-05	6.859E-08	7.683E-08	6.619E-08	8.222E-08	5.281E-08	3.626E-08	7.662E-05	3.308E-06	4.730E-08	2.077E-07
BI-212	.0500	1.054E-03	9.616E-05	4.734E-05	5.235E-05	4.191E-05	3.255E-05	1.513E-04	3.353E-03	1.923E-03	3.895E-05	4.090E-03
BI-213	.0500	3.649E-04	7.155E-05	2.650E-05	3.003E-05	2.093E-05	7.041E-06	1.591E-05	1.121E-03	7.126E-04	3.101E-05	1.472E-04

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

DCF-INGESTION (REM-MICROCI)

NAME	GIABS	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
BI-214	.0500	2.904E-04	1.942E-05	9.790E-06	2.425E-05	9.153E-06	3.517E-06	1.940E-04	9.139E-04	2.691E-04	1.357E-05	2.304E-04
BR-82	.9500	1.741E-03	1.586E-03	1.625E-03	1.516E-03	1.420E-03	1.788E-03	9.556E-04	2.220E-03	2.031E-03	1.622E-03	1.829E-03
BR-83	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR-84	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR-85	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
C-11	.9500	5.522E-05	7.396E-06	6.822E-06	6.226E-06	7.342E-06	3.169E-06	3.850E-06	1.684E-04	2.860E-05	8.502E-06	1.224E-05
C-14	.9500	1.713E-03	7.360E-04	1.920E-03	3.380E-03	8.940E-04	8.890E-04	7.050E-03	1.634E-03	1.230E-03	1.230E-03	1.060E-03
C-15	.9500	8.196E-07	1.670E-08	2.331E-08	1.987E-08	2.979E-08	4.168E-09	1.184E-08	2.685E-06	3.965E-08	3.119E-08	4.919E-08
CA-41	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD-113	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD-113M	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD-115	.0500	5.717E-03	1.176E-03	1.671E-04	2.831E-04	6.150E-05	3.832E-05	1.145E-04	1.784E-02	3.259E-02	7.524E-04	3.613E-03
CD-115M	.0500	1.615E-02	6.972E-04	6.329E-04	6.409E-04	6.269E-04	6.185E-04	6.222E-04	5.232E-02	5.852E-02	1.654E-02	9.550E-02
CE-141	.0003	2.894E-03	3.979E-04	4.102E-05	1.258E-04	5.313E-06	7.188E-07	8.778E-05	9.233E-03	1.765E-02	7.254E-05	4.419E-05
CE-143	.0003	4.540E-03	7.870E-04	8.610E-05	1.880E-04	1.417E-05	1.622E-06	5.961E-05	1.435E-02	2.677E-02	8.066E-05	1.037E-04
CE-144	.0003	2.103E-02	2.579E-04	4.551E-05	3.305E-04	2.468E-05	1.976E-05	4.851E-04	6.966E-02	1.339E-01	2.553E-03	4.884E-05
CF-252	.0010	9.798E-01	2.275E-01	2.989E-02	1.254E+00	2.254E-02	2.077E-02	1.533E+01	1.016E+00	3.830E-01	4.017E+00	3.256E-02
CM-242	.0010	1.198E-01	1.924E-02	2.151E-03	1.384E-01	2.150E-03	2.150E-03	1.706E+00	1.553E-01	1.275E-01	4.426E-01	2.150E-03
CM-243	.0010	2.951E+00	6.384E-01	6.412E-02	4.149E+00	6.418E-02	6.397E-02	5.147E+01	2.434E+00	1.980E-01	1.156E+01	6.434E-02
CM-244	.0010	2.323E+00	4.904E-01	4.997E-02	3.247E+00	4.997E-02	4.996E-02	4.029E+01	1.956E+00	1.696E-01	9.270E+00	4.997E-02
CM-245	.0010	4.576E+00	1.033E+00	1.005E-01	6.529E+00	1.006E-01	1.003E-01	8.084E+01	3.597E+00	2.175E-01	1.728E+01	1.008E-01
CM-246	.0010	4.532E+00	1.026E+00	9.960E-02	6.471E+00	9.949E-02	9.942E-02	7.997E+01	3.567E+00	2.120E-01	1.715E+01	9.979E-02
CM-247	.0010	4.156E+00	9.375E-01	9.221E-02	5.932E+00	9.247E-02	9.173E-02	7.327E+01	3.279E+00	2.124E-01	1.572E+01	9.306E-02
CM-248	.0010	1.673E+01	3.846E+00	4.628E-01	2.378E+01	4.247E-01	4.038E-01	2.926E+02	1.335E+01	1.109E+00	6.312E+01	5.325E-01
CO-57	.0500	7.297E-04	6.555E-04	1.670E-04	3.279E-04	1.217E-04	1.239E-04	1.234E-04	1.598E-03	2.783E-03	3.222E-04	1.881E-04
*	.3000	1.125E-03	9.522E-04	6.758E-04	9.920E-04	6.921E-04	7.411E-04	4.318E-04	1.829E-03	2.476E-03	1.696E-03	7.673E-04
CO-58	.0500	2.950E-03	3.847E-03	7.065E-04	9.638E-04	3.009E-04	3.169E-04	3.944E-04	5.699E-03	9.487E-03	9.026E-04	8.003E-04
*	.3000	3.450E-03	3.942E-03	1.935E-03	2.001E-03	1.411E-03	1.847E-03	1.090E-03	5.588E-03	7.950E-03	3.680E-03	2.272E-03
CO-60	.0500	9.861E-03	1.109E-02	4.571E-03	4.869E-03	3.699E-03	4.001E-03	2.739E-03	1.724E-02	2.630E-02	8.530E-03	5.414E-03
*	.3000	2.518E-02	2.243E-02	2.177E-02	2.030E-02	2.109E-02	2.383E-02	1.337E-02	3.407E-02	3.208E-02	4.676E-02	2.615E-02
CR-51	.0100	1.439E-04	1.454E-04	1.673E-05	3.136E-05	3.670E-06	2.017E-06	1.072E-05	3.350E-04	5.967E-04	1.299E-05	1.834E-05
*	.1000	1.442E-04	1.446E-04	2.965E-05	4.549E-05	1.793E-05	1.816E-05	1.852E-05	3.163E-04	5.526E-04	2.633E-05	3.170E-05
CS-134	.9500	6.740E-02	6.089E-02	7.125E-02	6.640E-02	6.149E-02	8.033E-02	4.421E-02	7.469E-02	4.618E-02	7.064E-02	7.736E-02
CS-134M	.9500	5.432E-05	2.267E-05	2.400E-05	2.447E-05	2.245E-05	2.528E-05	1.875E-05	1.270E-04	6.426E-05	2.386E-05	2.540E-05
CS-135	.9500	6.903E-03	6.903E-03	6.903E-03	6.903E-03	6.903E-03	6.903E-03	6.903E-03	6.903E-03	3.801E-03	6.903E-03	6.903E-03
CS-136	.9500	1.058E-02	9.586E-03	1.120E-02	1.047E-02	9.133E-03	1.376E-02	6.646E-03	1.180E-02	8.504E-03	1.112E-02	1.213E-02
CS-137	.9500	4.606E-02	4.404E-02	4.799E-02	4.365E-02	4.438E-02	5.080E-02	3.052E-02	4.950E-02	2.928E-02	4.786E-02	5.055E-02
CS-138	.9500	2.137E-04	3.295E-05	2.797E-05	2.552E-05	2.950E-05	1.893E-05	1.859E-05	6.450E-04	1.259E-04	3.238E-05	4.310E-05
CS-139	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU-64	.5000	4.588E-04	1.759E-04	6.317E-05	7.310E-05	1.851E-05	4.639E-05	4.687E-05	1.305E-03	2.148E-03	1.253E-04	7.552E-05
EU-152	.0010	6.518E-03	4.939E-03	1.059E-03	3.416E-03	8.956E-04	2.483E-04	7.760E-03	1.455E-02	2.240E-02	1.116E-02	1.731E-03
EU-152M	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU-154	.0010	9.556E-03	5.070E-03	1.032E-03	4.254E-03	7.982E-04	2.115E-04	1.654E-02	2.342E-02	3.852E-02	1.363E-02	1.662E-03

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

DCF-INGESTION (REM-MICROCI)

NAME	GIABS	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
EU-155	.0010	1.526E-03	3.636E-04	5.315E-05	5.792E-04	3.569E-05	6.620E-06	4.771E-03	4.034E-03	7.099E-03	1.526E-03	8.785E-05
EU-156	.0010	9.126E-03	4.534E-03	5.644E-04	9.487E-04	1.203E-04	1.965E-05	4.299E-04	2.589E-02	4.819E-02	5.884E-04	6.879E-04
F-18	.9500	1.387E-04	3.397E-05	2.423E-05	1.988E-04	2.309E-05	1.491E-05	1.983E-04	3.120E-04	1.200E-04	2.325E-05	3.411E-05
FE-55	.1000	5.925E-04	3.917E-04	3.951E-04	4.015E-04	4.050E-04	4.018E-04	3.807E-04	1.050E-03	6.479E-04	1.268E-03	3.969E-04
FE-59	.1000	6.493E-03	5.813E-03	3.095E-03	3.147E-03	2.460E-03	3.039E-03	1.962E-03	1.251E-02	1.882E-02	5.666E-03	3.618E-03
FR-221	.9500	1.492E-04	4.850E-05	4.364E-05	3.103E-05	4.302E-05	4.165E-05	6.870E-06	4.007E-04	1.291E-04	3.754E-06	1.626E-05
FR-223	.9500	1.606E-03	4.018E-04	4.008E-04	2.529E-03	4.007E-04	4.004E-04	2.822E-02	7.840E-04	8.988E-04	3.335E-04	3.404E-04
GA-67	.0010	7.805E-04	5.836E-04	6.283E-05	1.533E-04	8.832E-06	9.619E-07	5.236E-05	2.014E-03	3.642E-03	5.121E-05	7.390E-05
GD-152	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
H-3	.9500	8.993E-05	8.300E-05	8.300E-05	8.260E-05	8.360E-05	8.280E-05	6.560E-05	1.078E-04	1.187E-04	8.280E-05	8.560E-05
HF-181	.0020	4.682E-03	2.450E-03	2.852E-04	6.832E-04	4.772E-05	1.408E-05	1.436E-03	1.298E-02	2.417E-02	2.097E-04	3.021E-04
HG-203	.0200	2.291E-03	1.212E-03	2.097E-04	3.488E-04	1.078E-04	1.019E-04	1.499E-04	6.315E-03	1.144E-02	1.866E-04	1.181E-03
HO-166	.0003	5.583E-03	6.480E-05	7.998E-06	2.216E-05	1.458E-06	2.231E-07	7.786E-06	1.854E-02	3.458E-02	9.915E-06	9.848E-06
HO-166M	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I-122	.9500	2.597E-05	6.912E-07	9.194E-07	7.474E-07	1.120E-06	8.838E-07	4.372E-07	8.465E-05	4.903E-06	1.269E-06	2.007E-06
I-123	.9500	5.145E-04	3.453E-05	2.974E-05	3.540E-05	2.552E-05	1.537E-02	1.801E-05	1.080E-04	9.833E-05	2.235E-05	2.532E-05
I-125	.9500	3.639E-02	1.253E-04	5.254E-04	2.475E-04	1.419E-04	1.205E+00	1.619E-04	2.670E-04	2.336E-04	9.693E-05	1.076E-04
I-129	.9500	2.610E-01	5.017E-04	1.195E-03	7.892E-04	5.828E-04	8.675E+00	6.310E-04	7.764E-04	6.585E-04	4.818E-04	5.010E-04
I-130	.9500	4.606E-03	3.278E-04	3.030E-04	2.677E-04	2.570E-04	1.368E-01	1.804E-04	1.025E-03	9.148E-04	2.462E-04	2.836E-04
I-131	.9500	5.063E-02	2.122E-04	4.468E-04	3.506E-04	3.670E-04	1.670E+00	2.877E-04	1.055E-03	1.098E-03	1.843E-04	1.745E-04
I-132	.9500	6.693E-04	1.171E-04	1.010E-04	9.336E-05	9.305E-05	1.282E-02	6.350E-05	7.198E-04	3.193E-04	1.053E-04	1.303E-04
I-133	.9500	9.988E-03	1.857E-04	1.822E-04	1.662E-04	1.635E-04	3.177E-01	1.337E-04	1.138E-03	1.293E-03	1.473E-04	1.580E-04
I-134	.9500	2.559E-04	5.628E-05	4.484E-05	4.069E-05	4.283E-05	1.874E-03	2.682E-05	5.602E-04	1.526E-04	5.105E-05	6.833E-05
I-135	.9500	2.341E-03	2.011E-04	1.597E-04	1.492E-04	1.501E-04	6.165E-02	1.074E-04	1.260E-03	1.413E-03	1.490E-04	1.789E-04
IN-113M	.0200	1.046E-04	3.548E-05	6.866E-06	1.040E-05	3.422E-06	3.865E-07	3.728E-06	3.098E-04	3.194E-04	9.006E-06	1.377E-05
IN-115	.0200	1.561E-01	1.847E-02	1.847E-02	5.622E-01	1.847E-02	1.847E-02	2.908E-01	2.324E-01	2.453E-02	3.132E-01	6.364E-01
IN-115M	.0200	3.345E-04	7.902E-05	1.144E-05	2.175E-05	3.794E-06	7.356E-07	7.693E-06	1.032E-03	1.543E-03	1.484E-05	2.156E-05
IR-192	.0100	5.727E-03	3.808E-03	5.771E-04	9.428E-04	2.466E-04	1.727E-04	3.741E-04	1.510E-02	2.752E-02	1.641E-03	1.782E-03
K-40	.9500	1.817E-02	1.831E-02	1.799E-02	1.789E-02	1.835E-02	1.807E-02	1.735E-02	1.827E-02	1.210E-02	1.793E-02	1.827E-02
KR-83M	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR-85	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR-85M	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR-87	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR-88	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR-89	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR-90	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA-140	.0010	8.402E-03	4.947E-03	6.652E-04	1.041E-03	1.483E-04	2.374E-05	3.615E-04	2.304E-02	4.161E-02	6.254E-04	8.258E-04
LA-141	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA-142	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN-54	.1000	2.726E-03	3.499E-03	1.089E-03	1.805E-03	8.197E-04	6.228E-04	2.014E-03	4.311E-03	5.840E-03	3.710E-03	1.446E-03
MN-56	.1000	9.711E-04	3.140E-04	6.571E-05	8.850E-05	3.322E-05	1.038E-05	3.617E-05	2.889E-03	3.589E-03	9.356E-05	1.188E-04
MO-93	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO-99	.0500	4.993E-03	7.815E-04	1.317E-04	3.034E-04	6.231E-05	1.386E-04	2.367E-04	1.574E-02	2.955E-02	6.516E-04	6.438E-04

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

DCF-INGESTION (REM-MICROCI)

NAME	GIABS	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
*	.8000	2.995E-03	8.176E-04	7.242E-04	1.937E-03	7.332E-04	7.948E-04	2.846E-03	7.509E-03	6.842E-03	9.665E-03	9.059E-03
N-13	.9500	3.612E-05	2.884E-06	2.974E-06	2.594E-06	3.402E-06	9.159E-07	1.538E-06	1.139E-04	1.358E-05	3.944E-06	5.996E-06
NA-22	.9500	1.175E-02	9.046E-03	1.029E-02	2.136E-02	9.686E-03	1.076E-02	1.888E-02	1.109E-02	8.562E-03	9.555E-03	1.099E-02
NA-24	.9500	1.634E-03	1.135E-03	1.099E-03	1.861E-03	1.236E-03	1.158E-03	1.507E-03	2.446E-03	2.246E-03	1.064E-03	1.300E-03
NB-93M	.0100	5.206E-04	1.240E-04	9.830E-06	8.513E-05	9.645E-06	9.335E-06	2.179E-04	1.567E-03	2.966E-03	9.407E-06	1.272E-04
NB-94	.0100	7.745E-03	6.664E-03	1.326E-03	3.819E-03	6.220E-04	5.310E-04	2.007E-02	1.576E-02	2.773E-02	1.045E-03	2.587E-03
NB-95	.0100	2.549E-03	2.979E-03	4.010E-04	7.379E-04	1.003E-04	5.011E-05	1.098E-03	5.362E-03	9.278E-03	3.070E-04	5.089E-04
NB-95M	.0100	2.295E-03	3.396E-04	3.868E-05	1.201E-04	9.796E-06	6.172E-06	1.448E-04	7.282E-03	1.381E-02	2.897E-05	6.415E-05
NB-97	.0100	2.335E-04	5.380E-05	1.223E-05	1.552E-05	7.313E-06	7.924E-07	5.859E-06	7.174E-04	6.161E-04	1.616E-05	2.529E-05
NB-97M	.0100	3.996E-06	9.040E-07	3.461E-07	3.470E-07	3.220E-07	3.118E-08	1.562E-07	1.211E-05	8.985E-06	4.728E-07	7.580E-07
ND-147	.0003	4.374E-03	6.631E-04	6.937E-05	1.867E-04	9.069E-06	1.007E-06	8.219E-05	1.391E-02	2.651E-02	6.971E-05	7.071E-05
NI-59	.0500	2.027E-04	1.374E-04	1.369E-04	1.396E-04	1.409E-04	1.396E-04	1.299E-04	3.537E-04	5.623E-04	1.356E-04	3.366E-07
NI-63	.0500	5.531E-04	3.256E-04	3.256E-04	3.256E-04	3.256E-04	3.256E-04	3.256E-04	1.084E-03	1.840E-03	3.256E-04	9.488E-07
NI-65	.0500	6.219E-04	8.966E-05	2.091E-05	2.691E-05	1.033E-05	2.653E-06	1.061E-05	1.972E-03	2.464E-03	2.692E-05	3.801E-05
NP-237	.0010	4.006E+00	9.056E-01	8.840E-02	5.722E+00	8.853E-02	8.825E-02	7.068E+01	3.155E+00	1.942E-01	1.515E+01	8.865E-02
NP-238	.0010	3.937E-03	1.438E-03	1.839E-04	6.478E-04	4.387E-05	1.163E-05	4.586E-03	1.110E-02	2.026E-02	1.145E-03	2.282E-04
NP-239	.0010	3.254E-03	6.015E-04	6.360E-05	1.699E-04	9.036E-06	8.539E-07	1.038E-04	1.023E-02	1.923E-02	6.738E-05	7.609E-05
NP-240	.0010	2.369E-04	9.235E-05	2.115E-05	2.852E-05	1.289E-05	1.285E-06	1.213E-05	6.841E-04	5.597E-04	2.846E-05	4.440E-05
NP-240M	.0010	3.148E-05	8.897E-07	6.107E-07	5.420E-07	6.772E-07	6.176E-08	4.301E-07	1.033E-04	1.287E-05	8.748E-07	1.372E-06
O-15	.9500	1.108E-05	3.156E-07	5.258E-07	4.135E-07	6.663E-07	6.929E-08	2.338E-07	3.594E-05	1.824E-06	7.498E-07	1.201E-06
P-32	.8000	8.547E-03	2.524E-03	2.524E-03	2.997E-02	2.524E-03	2.524E-03	2.902E-02	8.973E-03	1.470E-02	2.524E-03	2.524E-03
PA-231	.0010	5.032E+00	3.819E-04	1.878E-04	1.010E+01	1.597E-04	1.512E-04	1.266E+02	7.377E-02	1.074E-01	3.560E-02	5.914E-02
PA-233	.0010	3.621E-03	9.549E-04	1.002E-04	2.529E-04	1.375E-05	1.867E-06	3.464E-04	1.108E-02	2.103E-02	8.924E-05	1.257E-04
PA-234	.0010	2.140E-03	1.221E-03	1.847E-04	2.907E-04	5.592E-05	7.010E-06	1.009E-04	5.875E-03	9.342E-03	2.178E-04	3.061E-04
PA-234M	.0010	5.895E-06	9.129E-09	4.067E-09	3.779E-09	4.179E-09	4.133E-10	1.863E-09	1.964E-05	3.941E-07	5.484E-09	8.798E-09
PB-209	.2000	2.166E-04	2.320E-06	2.320E-06	7.996E-06	2.320E-06	2.320E-06	8.054E-05	7.064E-04	9.628E-04	9.776E-06	4.529E-06
PB-210	.2000	4.715E-01	4.286E-02	4.287E-02	5.566E-01	4.288E-02	4.284E-02	6.490E+00	6.215E-01	5.120E-02	1.990E+00	9.642E-01
*	.2000	5.420E+00	4.799E-01	4.799E-01	5.709E+00	4.799E-01	4.799E-01	8.027E+01	6.876E+00	4.854E-01	2.249E+01	1.043E+01
PB-211	.2000	4.269E-04	5.809E-05	5.637E-05	6.295E-05	5.620E-05	5.564E-05	3.049E-04	1.263E-03	6.010E-04	3.896E-05	4.376E-05
PB-212	.2000	4.466E-02	7.407E-03	6.361E-03	4.835E-02	6.247E-03	6.207E-03	5.480E-01	6.227E-02	5.876E-02	6.761E-02	8.600E-02
PB-214	.2000	4.646E-04	9.341E-05	6.466E-05	8.809E-05	6.100E-05	5.435E-05	4.803E-04	1.325E-03	8.424E-04	4.792E-05	2.562E-04
PD-107	.0050	1.496E-04	3.926E-08	3.926E-08	6.266E-07	3.926E-08	3.926E-08	7.478E-06	4.975E-04	9.496E-04	1.283E-05	2.482E-05
PD-109	.0050	2.581E-03	5.762E-05	4.383E-06	1.360E-05	9.186E-07	5.419E-07	3.849E-06	8.545E-03	1.535E-02	1.681E-05	3.050E-05
PM-147	.0003	1.045E-03	3.097E-08	8.348E-09	7.791E-05	6.313E-09	5.704E-09	9.663E-04	3.356E-03	6.372E-03	2.577E-04	8.719E-09
PM-148	.0003	1.084E-02	1.747E-03	2.262E-04	3.645E-04	4.420E-05	6.916E-06	1.293E-04	3.440E-02	6.525E-02	2.061E-04	2.589E-04
PM-148M	.0003	9.531E-03	8.363E-03	9.997E-04	1.746E-03	1.713E-04	2.576E-05	7.146E-04	2.346E-02	4.273E-02	1.024E-03	1.080E-03
PM-149	.0003	3.983E-03	3.403E-05	3.793E-06	8.408E-06	6.285E-07	9.416E-08	3.537E-06	1.324E-02	2.513E-02	6.967E-06	4.576E-06
PM-151	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PO-210	.1000	1.889E+00	3.135E-01	3.135E-01	2.208E-01	3.135E-01	3.135E-01	1.674E-01	5.618E+00	4.092E-01	1.621E+00	9.400E+00
PO-211	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PO-212	.1000	5.502E-14	3.200E-34	3.200E-34	2.147E-34	3.200E-34	3.200E-34	3.083E-44	1.834E-13	1.401E-23	4.995E-37	3.568E-38
PO-213	.1000	7.994E-13	8.172E-16	8.172E-16	2.816E-15	8.172E-16	8.172E-16	2.836E-14	2.659E-12	3.391E-13	3.443E-15	1.595E-15
PO-214	.1000	2.686E-11	9.995E-15	1.001E-14	2.121E-12	1.003E-14	9.953E-15	2.595E-11	8.607E-11	1.198E-14	4.622E-13	2.240E-13

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

DCF-INGESTION (REM-MICROCI)

NAME	GIABS	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
PO-215	.1000	6.791E-10	5.566E-11	5.401E-11	6.031E-11	5.385E-11	5.332E-11	2.921E-10	2.110E-09	5.758E-10	3.733E-11	4.193E-11
PO-216	.1000	1.939E-07	2.909E-08	2.498E-08	1.899E-07	2.454E-08	2.438E-08	2.152E-06	3.060E-07	2.308E-07	2.655E-07	3.378E-07
PO-218	.1000	7.545E-05	1.150E-05	8.015E-06	1.074E-05	7.559E-06	6.836E-06	5.763E-05	2.241E-04	1.054E-04	5.826E-06	3.181E-05
PR-143	.0003	4.685E-03	2.778E-08	2.775E-08	3.844E-06	2.775E-08	2.775E-08	3.826E-06	1.562E-02	3.002E-02	3.060E-05	1.472E-05
PR-144	.0003	1.165E-04	2.732E-07	1.254E-07	1.194E-07	1.167E-07	1.345E-08	5.604E-08	3.881E-04	9.894E-05	1.743E-07	2.684E-07
PR-144M	.0003	4.905E-05	1.880E-07	8.557E-08	9.014E-08	7.575E-08	5.408E-09	4.248E-08	1.632E-04	5.834E-05	9.750E-08	1.597E-07
PU-236	.0010	5.065E-01	8.990E-02	1.013E-02	6.804E-01	1.013E-02	1.013E-02	8.418E+00	4.893E-01	1.293E-01	2.097E+00	1.007E-02
PU-238	.0010	3.853E+00	8.602E-01	8.420E-02	5.485E+00	8.420E-02	8.420E-02	6.763E+01	3.086E+00	1.973E-01	1.480E+01	8.420E-02
PU-239	.0001	4.459E-01	9.741E-02	9.452E-03	6.166E-01	9.452E-03	9.452E-03	7.593E+00	3.897E-01	1.160E-01	1.635E+00	9.452E-03
*	.0010	4.310E+00	9.741E-01	9.452E-02	6.166E+00	9.452E-02	9.452E-02	7.593E+01	3.400E+00	2.005E-01	1.635E+01	9.452E-02
PU-240	.0001	4.453E-01	9.742E-02	9.447E-03	6.155E-01	9.447E-03	9.447E-03	7.580E+00	3.894E-01	1.164E-01	1.632E+00	9.447E-03
*	.0010	4.303E+00	9.742E-01	9.447E-02	6.155E+00	9.447E-02	9.447E-02	7.579E+01	3.395E+00	2.009E-01	1.632E+01	9.447E-02
PU-241	.0010	8.758E-02	2.093E-02	1.948E-03	1.270E-01	1.949E-03	1.947E-03	1.566E+00	6.519E-02	2.481E-03	3.168E-01	1.949E-03
PU-242	.0001	4.242E-01	9.228E-02	8.996E-03	5.848E-01	8.995E-03	8.995E-03	7.243E+00	3.699E-01	1.102E-01	1.551E+00	8.996E-03
*	.0010	4.100E+00	9.227E-01	8.995E-02	5.848E+00	8.995E-02	8.995E-02	7.243E+01	3.227E+00	1.907E-01	1.551E+01	8.995E-02
PU-243	.0010	3.345E-04	1.698E-05	2.223E-06	7.305E-06	5.700E-07	4.542E-08	8.688E-06	1.096E-03	1.710E-03	4.010E-06	3.707E-06
PU-244	.0010	4.053E+00	9.147E-01	9.129E-02	5.791E+00	9.113E-02	9.023E-02	7.111E+01	3.229E+00	2.550E-01	1.536E+01	3.669E-03
RA-223	.2000	7.163E-01	1.679E-01	1.670E-01	1.095E+00	1.669E-01	1.669E-01	1.228E+01	4.144E-01	6.431E-01	1.408E-01	1.437E-01
RA-224	.2000	4.168E-01	8.990E-02	8.761E-02	6.138E-01	8.737E-02	8.732E-02	6.921E+00	2.892E-01	4.482E-01	1.237E-01	1.403E-01
RA-225	.2000	5.995E-01	1.230E-01	1.225E-01	1.010E+00	1.225E-01	1.225E-01	1.155E+01	2.146E-01	1.676E-01	4.689E-01	1.238E-01
RA-226	.2000	1.311E+00	3.338E-01	3.331E-01	2.133E+00	3.328E-01	3.324E-01	2.491E+01	4.165E-01	4.971E-01	3.236E-01	3.325E-01
RA-228	.2000	6.982E-01	3.344E-01	3.326E-01	9.781E-01	3.320E-01	3.319E-01	9.607E+00	3.646E-01	3.693E-01	3.946E-01	3.379E-01
RB-86	.9500	1.129E-02	7.750E-03	7.887E-03	3.061E-02	7.737E-03	7.987E-03	2.770E-02	8.328E-03	7.321E-03	7.860E-03	7.894E-03
RB-87	.9500	1.093E-02	4.126E-03	4.126E-03	1.710E-02	4.126E-03	4.126E-03	1.789E-01	4.126E-03	2.633E-03	4.126E-03	4.126E-03
RB-88	.9500	1.880E-04	9.021E-06	8.341E-06	6.131E-06	8.594E-06	6.767E-06	3.388E-06	6.080E-04	7.239E-05	9.168E-06	1.086E-05
RB-89	.9500	1.039E-04	1.263E-05	9.736E-06	9.034E-06	1.029E-05	5.011E-06	8.513E-06	3.218E-04	5.195E-05	1.209E-05	1.725E-05
RB-90	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB-90M	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE-187	.8000	9.423E-06	1.502E-06	1.502E-06	1.502E-06	1.502E-06	3.897E-05	1.502E-06	2.416E-05	1.438E-05	1.977E-06	1.502E-06
RH-103M	.0500	1.163E-05	1.492E-07	3.246E-08	3.773E-08	1.860E-08	1.246E-08	1.953E-08	3.861E-05	2.740E-05	1.868E-08	1.804E-08
RH-105	.0500	1.472E-03	2.141E-04	3.375E-05	5.446E-05	1.483E-05	1.180E-05	2.435E-05	4.679E-03	8.718E-03	3.128E-05	3.963E-05
RH-105M	.0500	9.951E-07	7.881E-08	1.859E-08	2.619E-08	1.275E-08	4.488E-09	1.251E-08	3.225E-06	3.120E-06	1.903E-08	2.767E-08
RH-106	.0500	4.411E-06	1.437E-08	2.493E-08	1.853E-08	3.212E-08	2.811E-09	1.066E-08	1.466E-05	1.523E-07	3.571E-08	5.794E-08
RN-219	.0000	2.426E-06	4.305E-08	3.966E-08	8.292E-07	3.950E-08	3.726E-08	1.006E-05	6.673E-06	1.224E-06	1.268E-06	8.094E-07
RN-220	.0000	9.305E-05	5.043E-06	3.625E-06	1.005E-04	3.477E-06	3.413E-06	1.241E-03	1.381E-04	8.009E-05	1.531E-04	9.717E-05
RN-222	.0000	6.602E-02	5.436E-03	8.748E-04	5.529E-03	3.571E-04	2.599E-04	5.528E-02	2.072E-01	3.925E-01	7.337E-03	1.404E-02
RU-103	.0500	3.020E-03	2.098E-03	4.776E-04	6.202E-04	2.813E-04	2.679E-04	3.037E-04	7.660E-03	1.395E-02	4.210E-04	5.110E-04
RU-105	.0500	1.098E-03	3.626E-04	6.002E-05	8.853E-05	2.342E-05	7.606E-06	3.299E-05	3.279E-03	5.117E-03	7.185E-05	1.011E-04
RU-106	.0500	2.695E-02	6.226E-03	5.597E-03	5.635E-03	5.468E-03	5.530E-03	5.407E-03	7.632E-02	1.431E-01	5.573E-03	5.654E-03
RU-97	.0500	6.885E-04	8.775E-04	9.887E-05	1.943E-04	2.618E-05	1.734E-05	6.533E-05	1.418E-03	2.415E-03	8.313E-05	1.132E-04
S-35	.1000	7.308E-04	3.634E-05	3.634E-05	3.634E-05	3.634E-05	3.634E-05	3.634E-05	2.351E-03	4.500E-03	3.634E-05	3.634E-05
*	.8000	4.237E-04	2.910E-04	2.910E-04	2.910E-04	2.910E-04	2.910E-04	2.910E-04	7.333E-04	1.142E-03	2.910E-04	2.910E-04
SB-124	.0100	1.010E-02	6.576E-03	8.575E-04	1.407E-03	2.060E-04	7.397E-05	7.145E-04	2.703E-02	4.970E-02	8.049E-04	9.518E-04

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

DCF-INGESTION (REM-MICROCI)

NAME	GIABS	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
*	.1000	9.727E-03	6.367E-03	1.235E-03	2.277E-03	6.726E-04	5.236E-04	3.099E-03	2.496E-02	4.549E-02	2.400E-03	1.423E-03
SB-125	.0100	2.791E-03	1.950E-03	2.327E-04	4.531E-04	5.081E-05	2.397E-05	4.415E-04	7.315E-03	1.345E-02	2.303E-04	2.445E-04
*	.1000	2.821E-03	1.929E-03	3.924E-04	8.801E-04	2.254E-04	2.022E-04	2.988E-03	6.839E-03	1.234E-02	9.067E-04	4.322E-04
SB-126	.0100	1.062E-02	1.067E-02	1.313E-03	2.194E-03	2.525E-04	7.433E-05	8.266E-04	2.479E-02	4.393E-02	1.104E-03	1.454E-03
*	.1000	1.008E-02	1.004E-02	1.600E-03	2.662E-03	6.051E-04	4.849E-04	1.787E-03	2.290E-02	4.025E-02	2.226E-03	1.810E-03
SB-126M	.0100	9.385E-05	1.961E-05	7.621E-06	7.977E-06	6.977E-06	6.447E-07	3.523E-06	2.863E-04	1.017E-04	1.028E-05	1.678E-05
*	.1000	9.364E-05	1.943E-05	7.715E-06	8.068E-06	7.092E-06	7.888E-07	3.676E-06	2.856E-04	1.003E-04	1.045E-05	1.686E-05
SB-127	.0100	7.177E-03	2.278E-03	2.868E-04	5.098E-04	6.290E-05	2.332E-05	2.286E-04	2.163E-02	4.096E-02	2.729E-04	3.274E-04
*	.1000	6.697E-03	2.182E-03	3.777E-04	8.286E-04	1.702E-04	1.390E-04	6.653E-04	1.984E-02	3.742E-02	7.466E-04	4.260E-04
SC-46	.0001	6.346E-03	7.424E-03	9.296E-04	1.493E-03	1.793E-04	2.893E-05	5.589E-04	1.377E-02	2.393E-02	7.480E-04	1.052E-03
SE-79	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM-147	.0003	1.850E-01	4.173E-06	4.173E-06	2.538E-01	4.173E-06	4.173E-06	3.176E+00	1.976E-01	4.610E-02	8.686E-01	4.173E-06
SM-151	.0003	3.885E-04	8.051E-08	5.596E-09	1.021E-04	4.203E-09	1.914E-09	1.278E-03	1.126E-03	2.040E-03	3.403E-04	3.700E-09
SM-153	.0003	2.992E-03	2.654E-04	2.558E-05	1.009E-04	2.664E-06	1.105E-07	3.095E-05	9.695E-03	1.827E-02	2.146E-05	2.665E-05
SN-113	.0200	3.151E-03	1.434E-03	2.160E-04	1.163E-03	9.574E-05	8.895E-05	1.433E-03	8.544E-03	1.624E-02	1.629E-04	2.099E-04
SN-123	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN-125	.0200	1.229E-02	1.064E-03	1.627E-04	7.480E-04	5.786E-05	3.647E-05	7.238E-04	3.960E-02	7.569E-02	1.291E-04	1.823E-04
SN-126	.0200	1.871E-02	8.318E-03	2.477E-03	9.092E-03	1.656E-03	1.641E-03	1.736E-02	4.799E-02	8.956E-02	1.952E-03	2.479E-03
SR-89	.0100	9.182E-03	3.178E-05	3.150E-05	4.000E-04	3.147E-05	3.146E-05	5.949E-04	3.033E-02	5.841E-02	3.149E-05	3.151E-05
*	.3000	9.143E-03	9.448E-04	9.446E-04	1.201E-02	9.446E-04	9.445E-04	1.786E-02	2.216E-02	4.179E-02	9.446E-04	9.446E-04
SR-90	.0100	1.148E-02	1.776E-04	1.776E-04	2.167E-02	1.776E-04	1.776E-04	4.794E-02	2.446E-02	4.793E-02	1.904E-04	1.776E-04
*	.3000	1.304E-01	5.329E-03	5.329E-03	6.501E-01	5.329E-03	5.329E-03	1.438E+00	2.118E-02	3.672E-02	5.710E-03	5.329E-03
SR-91	.0100	3.090E-03	9.183E-04	1.333E-04	2.107E-04	3.720E-05	8.461E-06	8.007E-05	9.359E-03	1.605E-02	1.489E-04	2.026E-04
*	.3000	2.541E-03	8.152E-04	2.264E-04	6.027E-04	1.463E-04	1.361E-04	4.691E-04	7.316E-03	1.223E-02	3.255E-04	2.848E-04
SR-92	.0100	2.014E-03	3.030E-04	6.256E-05	8.527E-05	2.622E-05	4.392E-06	3.277E-05	6.380E-03	1.085E-02	8.061E-05	1.128E-04
*	.3000	1.770E-03	2.846E-04	8.632E-05	1.566E-04	5.647E-05	3.753E-05	1.273E-04	5.519E-03	9.258E-03	1.185E-04	1.316E-04
TB-160	.0003	6.720E-03	4.319E-03	5.289E-04	9.425E-04	1.006E-04	1.596E-05	5.797E-04	1.806E-02	3.330E-02	4.948E-04	6.045E-04
TC-101	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC-97	.8000	1.685E-04	5.403E-05	4.019E-05	4.824E-05	4.698E-05	6.524E-04	2.825E-05	3.902E-04	2.255E-04	4.807E-05	3.647E-05
TC-99	.8000	1.446E-03	2.312E-04	2.312E-04	2.312E-04	2.312E-04	5.976E-03	2.312E-04	3.705E-03	2.203E-03	3.035E-04	2.312E-04
TC-99M	.8000	6.113E-05	3.385E-05	1.482E-05	2.328E-05	1.293E-05	3.183E-04	9.436E-06	1.209E-04	1.056E-04	1.687E-05	1.965E-05
TE-125M	.2000	3.687E-03	4.758E-04	1.826E-04	4.472E-03	1.663E-04	1.584E-04	4.792E-02	5.141E-03	9.683E-03	1.582E-04	1.652E-04
TE-127	.2000	6.921E-04	1.592E-05	1.224E-05	2.196E-05	1.179E-05	1.170E-05	1.712E-05	2.271E-03	3.891E-03	1.230E-05	1.254E-05
TE-127M	.2000	8.267E-03	4.833E-04	3.859E-04	2.015E-02	3.785E-04	3.747E-04	7.724E-02	1.099E-02	2.127E-02	3.728E-04	3.768E-04
TE-129	.2000	2.013E-04	5.990E-06	2.376E-06	2.530E-06	1.946E-06	1.386E-06	8.194E-07	6.628E-04	5.323E-04	2.647E-06	3.402E-06
TE-129M	.2000	1.046E-02	8.998E-04	6.351E-04	1.267E-02	6.045E-04	6.042E-04	2.947E-02	2.550E-02	4.889E-02	6.127E-04	6.316E-04
TE-131	.2000	2.041E-04	8.985E-06	4.312E-06	4.649E-06	3.752E-06	3.136E-03	2.800E-06	3.533E-04	1.341E-04	4.755E-06	7.096E-06
TE-131M	.2000	5.646E-03	2.801E-03	5.073E-04	8.837E-04	2.235E-04	3.856E-02	1.189E-03	1.182E-02	2.110E-02	4.667E-04	6.073E-04
TE-132	.2000	9.443E-03	6.093E-03	1.229E-03	2.438E-03	6.366E-04	5.072E-03	3.258E-03	2.372E-02	4.428E-02	1.019E-03	1.261E-03
TE-133	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE-133M	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE-134	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TH-227	.0002	3.855E-02	3.257E-03	2.685E-03	2.018E-02	2.629E-03	2.622E-03	2.285E-01	9.220E-02	1.765E-01	3.038E-03	1.992E-03

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

DCF-INGESTION (REM-MICROCI)

NAME		GIABS	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
TH-228		.0002	1.890E-01	8.569E-03	7.873E-03	2.970E-01	7.801E-03	7.788E-03	3.635E+00	1.327E-01	2.423E-01	3.429E-02	9.547E-03
TH-229		.0002	8.319E-01	6.332E-03	5.857E-03	1.628E+00	5.803E-03	5.796E-03	2.037E+01	7.393E-02	1.218E-01	4.561E-02	5.789E-03
TH-230		.0002	5.249E-01	2.589E-03	2.581E-03	1.026E+00	2.581E-03	2.581E-03	1.278E+01	5.693E-02	9.994E-02	2.183E-02	2.581E-03
TH-231		.0002	1.347E-03	7.703E-05	5.346E-06	1.960E-05	5.330E-07	3.454E-08	1.194E-05	4.414E-03	8.199E-03	3.606E-06	4.657E-06
TH-232		.0002	4.774E-01	2.295E-03	2.290E-03	9.332E-01	2.289E-03	2.287E-03	1.165E+01	4.870E-02	8.533E-02	1.900E-02	2.260E-03
TH-234		.0002	1.367E-02	1.033E-04	1.186E-05	6.525E-05	2.454E-06	1.080E-06	7.303E-05	4.543E-02	8.749E-02	1.445E-05	1.231E-05
TL-207		.9500	1.369E-05	6.485E-08	6.399E-08	9.431E-08	6.444E-08	6.183E-08	7.030E-08	4.546E-05	2.212E-06	6.492E-08	4.201E-07
TL-208		.9500	1.939E-05	2.063E-06	2.226E-06	1.712E-06	2.610E-06	3.715E-07	9.945E-07	5.993E-05	5.920E-06	3.203E-06	4.990E-06
TL-209		.9500	1.529E-05	8.543E-07	1.057E-06	1.022E-06	1.288E-06	1.584E-07	3.011E-06	4.850E-05	1.372E-05	1.779E-06	2.581E-06
U-232		.0020	4.574E-02	1.032E-03	8.820E-04	3.103E-02	8.797E-04	8.730E-04	4.911E-01	8.921E-02	1.114E-01	8.989E-04	1.558E-01
		.0500	7.296E-01	2.544E-02	2.199E-02	7.757E-01	2.195E-02	2.178E-02	1.228E+01	8.510E-01	1.270E-01	2.230E-02	3.895E+00
	*	.2000	2.867E+00	1.017E-01	8.797E-02	3.103E+00	8.780E-02	8.713E-02	4.910E+01	3.232E+00	1.757E-01	8.919E-02	1.558E+01
U-233		.0020	2.593E-02	3.981E-04	3.900E-04	1.037E-02	3.895E-04	3.895E-04	1.643E-01	6.513E-02	9.950E-02	3.897E-04	6.703E-02
		.0500	2.773E-01	9.745E-03	9.738E-03	2.593E-01	9.738E-03	9.737E-03	4.108E+00	3.919E-01	1.040E-01	9.737E-03	1.676E+00
	*	.2000	1.063E+00	3.896E-02	3.895E-02	1.037E+00	3.895E-02	3.895E-02	1.643E+01	1.413E+00	1.182E-01	3.895E-02	6.703E+00
U-234		.0020	2.576E-02	3.945E-04	3.854E-04	1.031E-02	3.850E-04	3.850E-04	1.625E-01	6.478E-02	9.916E-02	3.851E-04	6.618E-02
		.0500	2.743E-01	9.635E-03	9.626E-03	2.576E-01	9.626E-03	9.625E-03	4.064E+00	3.874E-01	1.036E-01	9.626E-03	1.655E+00
	*	.2000	1.051E+00	3.851E-02	3.850E-02	1.031E+00	3.850E-02	3.850E-02	1.625E+01	1.396E+00	1.175E-01	3.850E-02	6.618E+00
U-235		.0020	2.661E-02	1.251E-03	4.620E-04	1.034E-02	3.865E-04	3.762E-04	1.573E-01	6.737E-02	1.061E-01	3.718E-04	6.135E-02
		.0500	2.635E-01	1.019E-02	9.513E-03	2.533E-01	9.426E-03	9.387E-03	3.931E+00	3.660E-01	1.100E-01	7.838E-03	1.532E+00
	*	.2000	1.004E+00	3.811E-02	3.780E-02	1.013E+00	3.767E-02	3.755E-02	1.572E+01	1.299E+00	1.222E-01	3.117E-02	6.126E+00
U-236		.0020	2.438E-02	3.727E-04	3.644E-04	9.731E-03	3.641E-04	3.641E-04	1.536E-01	6.133E-02	9.383E-02	3.642E-04	6.279E-02
		.0500	2.596E-01	9.111E-03	9.103E-03	2.433E-01	9.103E-03	9.102E-03	3.841E+00	3.674E-01	9.804E-02	9.102E-03	1.570E+00
	*	.2000	9.949E-01	3.642E-02	3.641E-02	9.730E-01	3.641E-02	3.641E-02	1.536E+01	1.324E+00	1.112E-01	3.641E-02	6.279E+00
U-237		.0020	3.164E-03	6.696E-04	6.698E-05	2.105E-04	8.070E-06	9.221E-07	1.264E-04	9.854E-03	1.868E-02	4.936E-05	1.092E-04
		.0500	3.138E-03	6.486E-04	7.571E-05	3.506E-04	1.931E-05	1.193E-05	1.659E-03	9.566E-03	1.781E-02	5.984E-05	9.987E-04
	*	.2000	3.072E-03	5.828E-04	1.031E-04	7.900E-04	5.454E-05	4.644E-05	6.462E-03	8.715E-03	1.506E-02	9.270E-05	3.788E-03
U-238		.0020	2.352E-02	4.072E-04	3.536E-04	1.088E-02	3.472E-04	3.460E-04	1.408E-01	5.928E-02	9.141E-02	2.979E-04	5.914E-02
		.0500	2.473E-01	8.708E-03	8.675E-03	2.718E-01	8.661E-03	8.650E-03	3.521E+00	3.475E-01	9.526E-02	7.358E-03	1.478E+00
	*	.2000	9.464E-01	3.465E-02	3.468E-02	1.087E+00	3.464E-02	3.460E-02	1.408E+01	1.248E+00	1.073E-01	2.942E-02	5.913E+00
U-240		.0020	3.960E-03	4.123E-04	5.413E-05	8.885E-05	1.300E-05	2.057E-06	5.049E-05	1.278E-02	2.285E-02	5.800E-05	9.503E-05
		.0500	3.866E-03	4.024E-04	6.234E-05	1.532E-04	2.262E-05	1.222E-05	5.427E-04	1.240E-02	2.196E-02	1.039E-04	5.335E-04
	*	.2000	3.564E-03	3.701E-04	8.896E-05	3.618E-04	5.382E-05	4.521E-05	2.139E-03	1.114E-02	1.905E-02	2.524E-04	1.956E-03
W-181		.0100	3.423E-04	2.712E-04	2.605E-05	1.207E-04	2.390E-06	3.163E-07	3.817E-05	8.488E-04	1.546E-03	1.836E-05	3.220E-05
	*	.3000	2.888E-04	2.009E-04	3.060E-05	1.833E-04	1.556E-05	8.639E-06	1.679E-04	6.829E-04	1.104E-03	7.480E-05	2.738E-04
W-185		.0100	1.994E-03	7.069E-07	4.168E-07	6.263E-06	3.871E-07	3.839E-07	1.792E-05	6.640E-03	1.278E-02	8.369E-06	4.852E-05
	*	.3000	1.592E-03	1.175E-05	1.155E-05	1.843E-04	1.153E-05	1.152E-05	5.367E-04	5.158E-03	9.043E-03	2.505E-04	1.455E-03
W-187		.0100	2.747E-03	9.597E-04	1.202E-04	2.185E-04	2.453E-05	3.907E-06	7.530E-05	8.192E-03	1.488E-02	1.117E-04	1.601E-04
	*	.3000	2.062E-03	7.298E-04	1.209E-04	2.048E-04	4.901E-05	3.603E-05	1.799E-04	6.080E-03	1.087E-02	1.198E-04	2.771E-04
XE-122		.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE-123		.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE-125		.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE-127		.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ALLRAD88 Data File
(continued)

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.

DCF-INGESTION (REM-MICROCI)

NAME	GIABS	EFFEC	GONADS	BREAST	R MARROW	LUNG	THYROID	BON SURF	RMNDR	INT WALL	LIVER	KIDNEYS
XE-131M	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE-133	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE-133M	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE-135	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE-135M	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE-137	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE-138	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y-90	.0001	1.074E-02	5.706E-08	5.082E-08	1.367E-06	5.062E-08	5.062E-08	1.348E-06	3.581E-02	6.815E-02	1.330E-06	5.062E-08
Y-90M	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y-91	.0001	9.509E-03	1.311E-05	2.069E-06	2.451E-05	7.622E-07	4.928E-07	2.266E-05	3.167E-02	6.103E-02	2.282E-05	2.274E-06
Y-91M	.0001	4.150E-05	2.564E-05	6.820E-06	8.276E-06	4.733E-06	4.338E-07	3.221E-06	1.080E-04	1.037E-04	9.099E-06	1.451E-05
Y-92	.0001	1.911E-03	7.283E-05	1.316E-05	1.822E-05	5.151E-06	6.585E-07	6.481E-06	6.294E-03	8.995E-03	1.683E-05	2.421E-05
Y-93	.0001	4.566E-03	8.130E-05	1.158E-05	1.825E-05	3.210E-06	4.688E-07	6.375E-06	1.514E-02	2.651E-02	1.301E-05	1.757E-05
ZN-65	.5000	1.382E-02	1.184E-02	1.438E-02	1.662E-02	1.157E-02	1.702E-02	1.009E-02	1.501E-02	1.181E-02	1.354E-02	1.556E-02
ZN-69	.5000	8.686E-05	1.617E-06	1.617E-06	1.544E-06	1.617E-06	1.617E-06	9.371E-07	2.859E-04	1.792E-04	1.617E-06	1.617E-06
ZN-69M	.5000	1.299E-03	4.513E-04	1.760E-04	3.311E-04	1.427E-04	1.376E-04	2.329E-04	3.639E-03	6.453E-03	1.775E-04	2.001E-04
ZR-93	.0020	1.077E-03	1.869E-07	1.991E-07	1.547E-03	1.878E-07	1.817E-07	1.922E-02	1.048E-03	2.020E-03	1.831E-07	1.798E-07
ZR-95	.0020	3.749E-03	3.013E-03	3.829E-04	7.572E-04	8.151E-05	2.800E-05	1.575E-03	9.298E-03	1.688E-02	2.847E-04	4.139E-04
ZZ-999	.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

APPENDIX G

SAMPLE PREPAR INPUT ARRAY

SAMPLE.POP File

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   111910.        0.        0.        0.        0.        0.        0.        0.
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        0.        0.    15766.    40030.    32245.    29235.     4906.     2527.
    52311.        0.        0.        0.        0.        0.        0.        0.
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    64259.    34322.     5686.     9600.     6945.        0.        0.        0.
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        0.        0.        0.        0.        0.      583.      699.    14087.
    25526.     3013.     2211.    11628.    13569.        0.        0.        0.
        0.        0.        0.        0.        0.      371.        0.        0.
        0.      754.     3388.    25583.    92779.     6919.     6218.    14385.
     9580.        0.        0.        0.        0.        0.        0.        0.
        0.        0.        0.        0.        0.        0.    11255.     3057.
    17399.     3386.     1227.     3539.    69888.        0.        0.        0.
        0.        0.        0.        0.        0.        0.        0.        0.
        0.        0.     1524.     1560.    20196.     2956.     3162.     6812.
    21119.        0.        0.        0.        0.        0.        0.        0.
        0.        0.        0.        0.        0.        0.     1400.    38264.
    55616.   129090.    26537.    13264.    28396.        0.        0.        0.
        0.        0.        0.        0.        0.        0.        0.        0.
        0.        9.      543.    42042.   148331.   186756.   195779.   202379.
   109332.        0.        0.        0.        0.        0.        0.        0.
        0.        0.        0.     2877.        0.      626.        0.   110559.
   390640.   316868.    23367.        0.    27418.        0.        0.        0.
        0.        0.        0.        0.        0.        0.        0.        0.
      549.      807.     7362.    85258.   426648.   343806.        0.        0.
        0.        0.        0.        0.        0.        0.        0.        0.
        0.        0.        0.      899.     1493.     1477.     6039.   104299.
   548998.   884496.   132440.        0.        0.        0.        0.        0.
        0.        0.        0.        0.        0.        0.        0.     1245.
     4758.     3299.    18169.    72950.   210212.   312502.   221810.    53208.
     3020.        0.        0.        0.        0.        0.        0.        0.
        0.        0.        0.        0.        0.        0.        0.        0.
        0.        0.        0.        0.        0.        0.        0.        0.
```

SAMPLE.POP File
(continued)

```
0         1         2         3         4         5         6         7         8
12345678901234567890123456789012345678901234567890123456789012345678901234567890 1
-------------------------------------------------------------------------------
         0.        0.        0.        0.        0.        0.        0.        0.
         0.        0.        0.        0.        0.        0.        0.        0.
         0.        0.        0.        0.        0.        0.        0.        0.
         0.        0.        0.        0.        0.        0.        0.        0.
         0.        0.        0.        0.        0.        0.        0.        0.
         0.        0.        0.        0.        0.        0.        0.        0.
         0.        0.        0.        0.        0.        0.        0.        0.
         0.        0.        0.        0.        0.        0.        0.        0.
-------------------------------------------------------------------------------
```

APPENDIX H

PRDPOP PROGRAM FILE

PRDPOP Program File

```
0         1         2         3         4         5         6         7
12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678
********************************* TOP OF DATA *********************************
 &INPUT IHEAD=1,ICRP=1,
  ILOC=0,JLOC=0,PLOC=100.,ILET=2*1,
  DTABLE=0, 0, 0, 0, 0, 0, 0,
  RTABLE=0, 0, 0, 0, 0, 0, 0,
  FTABLE=0, 0, 0, 0, 0, 0, 0,
  OUTPUT=T,GSCFAC=0.5 &END
 &ORGAN NORGN=8,ORGN='GONADS','BREAST','R MAR','LUNGS','THYROID',
  'ENDOST','RMNDR','EFFEC' , TIME=8*50 &END
 &QFACTR LLET=20*1.,HLET=20*20. &END
 &CANCER  NCANC=11,CANC='LEUKEMIA','BONE','THYROID','BREATS','LUNG',
  'STOMACH','BOWEL','LIVER','PANCREAS','URINARY','OTHER',
 RELABS=11*1 &END
 &GENTIC GENEFF=T,NGEN=3,GEN='TESTES','OVARIES','AVERAGE',
GRFAC=260.,690.,REPPER=.0141133,GLLET=3*1.,GHLET=3*20.  &END
 &LOCTBL NTLOC=7,
  RNLOC='WLSUM','WLSUM','WLSUM','SUM','SUM','SUM','SUM',
  OGLOC='SUM',  'SUM',  'SUM',  'SUM','SUM','SUM','SUM',
  PTLOC= 7,       7,      7,      7,    7,    7,    7,
  FALOC= 2,       2,      2,      2,    2,    2,    2,
  HLLOC= 1,       1,      1,      1,    1,    1,    1,
  LTABLE=1,       3,      3,      1,    3,    1,    3,
 &END
 &ORGANF NORGB=7,ORGB='GONADS','BREAST','R MAR','LUNGS','THYROID',
  'ENDOST','RMNDR', IPATH=7*5,
  ,ORGDAT = .25,.15,.12,.12,.03,.03,.3  &END
******************************** BOTTOM OF DATA ******************************
```