

Dose Conversion Factor (and Related) Parameter Summary

Current Library: FGR 12

Default Library: FGR 12

Menu	Parameter	Current Value	Default	Parameter Name
DCSF	DCF's for external ground radiation, (mrem/yr)/(pCi/g)			
DCSF	Ac-225 (Source: FGR 12)	6.371E-02	6.371E-02	DCFEXT(1)
DCSF	Ac-227 (Source: FGR 12)	4.951E-04	4.951E-04	DCFEXT(2)
DCSF	Ac-228 (Source: FGR 12)	5.978E+00	5.978E+00	DCFEXT(3)
DCSF	Al-26 (Source: FGR 12)	1.741E+01	1.741E+01	DCFEXT(4)
DCSF	Am-241 (Source: FGR 12)	4.372E-02	4.372E-02	DCFEXT(5)
DCSF	Am-243 (Source: FGR 12)	1.420E-01	1.420E-01	DCFEXT(6)
DCSF	At-217 (Source: FGR 12)	1.773E-03	1.773E-03	DCFEXT(7)
DCSF	At-218 (Source: FGR 12)	5.847E-03	5.847E-03	DCFEXT(8)
DCSF	Ba-137m (Source: FGR 12)	3.606E+00	3.606E+00	DCFEXT(9)
DCSF	Bi-210 (Source: FGR 12)	3.606E-03	3.606E-03	DCFEXT(10)
DCSF	Bi-211 (Source: FGR 12)	2.559E-01	2.559E-01	DCFEXT(11)
DCSF	Bi-212 (Source: FGR 12)	1.171E+00	1.171E+00	DCFEXT(12)
DCSF	Bi-213 (Source: FGR 12)	7.660E-01	7.660E-01	DCFEXT(13)
DCSF	Bi-214 (Source: FGR 12)	9.808E+00	9.808E+00	DCFEXT(14)
DCSF	Cf-249 (Source: FGR 12)	1.851E+00	1.851E+00	DCFEXT(15)
DCSF	Cf-251 (Source: FGR 12)	5.268E-01	5.268E-01	DCFEXT(16)
DCSF	Cf-252 (Source: FGR 12)	1.758E-04	1.758E-04	DCFEXT(17)
DCSF	Cl-36 (Source: FGR 12)	2.391E-03	2.391E-03	DCFEXT(18)
DCSF	Cm-245 (Source: FGR 12)	3.400E-01	3.400E-01	DCFEXT(19)
DCSF	Cm-247 (Source: FGR 12)	1.780E+00	1.780E+00	DCFEXT(20)
DCSF	Cm-248 (Source: FGR 12)	8.781E-05	8.781E-05	DCFEXT(21)
DCSF	Co-60 (Source: FGR 12)	1.622E+01	1.622E+01	DCFEXT(22)
DCSF	Cs-134 (Source: FGR 12)	9.472E+00	9.472E+00	DCFEXT(23)
DCSF	Cs-137 (Source: FGR 12)	7.510E-04	7.510E-04	DCFEXT(24)
DCSF	Eu-154 (Source: FGR 12)	7.678E+00	7.678E+00	DCFEXT(25)
DCSF	Eu-155 (Source: FGR 12)	1.822E-01	1.822E-01	DCFEXT(26)

DCSF ≥ Fr-221	(Source: FGR 12)	≥ 1.536E-01	≥ 1.536E-01	≥ DCFEXT(27)
DCSF ≥ Fr-223	(Source: FGR 12)	≥ 1.980E-01	≥ 1.980E-01	≥ DCFEXT(28)
DCSF ≥ H-3	(Source: FGR 12)	≥ 0.000E+00	≥ 0.000E+00	≥ DCFEXT(29)
DCSF ≥ Ho-166m	(Source: FGR 12)	≥ 1.029E+01	≥ 1.029E+01	≥ DCFEXT(30)
DCSF ≥ Na-22	(Source: FGR 12)	≥ 1.368E+01	≥ 1.368E+01	≥ DCFEXT(31)
DCSF ≥ Np-237	(Source: FGR 12)	≥ 7.790E-02	≥ 7.790E-02	≥ DCFEXT(32)
DCSF ≥ Np-239	(Source: FGR 12)	≥ 7.529E-01	≥ 7.529E-01	≥ DCFEXT(33)
DCSF ≥ Np-240m	(Source: FGR 12)	≥ 2.018E+00	≥ 2.018E+00	≥ DCFEXT(34)
DCSF ≥ Pa-231	(Source: FGR 12)	≥ 1.906E-01	≥ 1.906E-01	≥ DCFEXT(35)
DCSF ≥ Pa-233	(Source: FGR 12)	≥ 1.020E+00	≥ 1.020E+00	≥ DCFEXT(36)
DCSF ≥ Pa-234	(Source: FGR 12)	≥ 1.155E+01	≥ 1.155E+01	≥ DCFEXT(37)
DCSF ≥ Pa-234m	(Source: FGR 12)	≥ 8.967E-02	≥ 8.967E-02	≥ DCFEXT(38)
DCSF ≥ Pb-209	(Source: FGR 12)	≥ 7.734E-04	≥ 7.734E-04	≥ DCFEXT(39)
DCSF ≥ Pb-210	(Source: FGR 12)	≥ 2.447E-03	≥ 2.447E-03	≥ DCFEXT(40)
DCSF ≥ Pb-211	(Source: FGR 12)	≥ 3.064E-01	≥ 3.064E-01	≥ DCFEXT(41)
DCSF ≥ Pb-212	(Source: FGR 12)	≥ 7.043E-01	≥ 7.043E-01	≥ DCFEXT(42)
DCSF ≥ Pb-214	(Source: FGR 12)	≥ 1.341E+00	≥ 1.341E+00	≥ DCFEXT(43)
DCSF ≥ Pm-147	(Source: FGR 12)	≥ 5.007E-05	≥ 5.007E-05	≥ DCFEXT(44)

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: FGR 12

Default Library: FGR 12

0	≥		≥	Current	≥		≥	Parameter
Menu	≥	Parameter	≥	Value	≥	Default	≥	Name
fffff	≈	fffff	≈	fffff	≈	fffff	≈	fffff
DCSF ≥ Po-210	(Source: FGR 12)		≥	5.231E-05	≥	5.231E-05	≥	DCFEXT(45)
DCSF ≥ Po-211	(Source: FGR 12)		≥	4.764E-02	≥	4.764E-02	≥	DCFEXT(46)
DCSF ≥ Po-212	(Source: FGR 12)		≥	0.000E+00	≥	0.000E+00	≥	DCFEXT(47)
DCSF ≥ Po-213	(Source: FGR 12)		≥	0.000E+00	≥	0.000E+00	≥	DCFEXT(48)

DCSF ≥ Po-214	(Source: FGR 12)	≥ 5.138E-04	≥ 5.138E-04	≥ DCFEXT(49)
DCSF ≥ Po-215	(Source: FGR 12)	≥ 1.016E-03	≥ 1.016E-03	≥ DCFEXT(50)
DCSF ≥ Po-216	(Source: FGR 12)	≥ 1.042E-04	≥ 1.042E-04	≥ DCFEXT(51)
DCSF ≥ Po-218	(Source: FGR 12)	≥ 5.642E-05	≥ 5.642E-05	≥ DCFEXT(52)
DCSF ≥ Pu-238	(Source: FGR 12)	≥ 1.513E-04	≥ 1.513E-04	≥ DCFEXT(53)
DCSF ≥ Pu-239	(Source: FGR 12)	≥ 2.952E-04	≥ 2.952E-04	≥ DCFEXT(54)
DCSF ≥ Pu-240	(Source: FGR 12)	≥ 1.467E-04	≥ 1.467E-04	≥ DCFEXT(55)
DCSF ≥ Pu-241	(Source: FGR 12)	≥ 5.904E-06	≥ 5.904E-06	≥ DCFEXT(56)
DCSF ≥ Pu-242	(Source: FGR 12)	≥ 1.280E-04	≥ 1.280E-04	≥ DCFEXT(57)
DCSF ≥ Pu-243	(Source: FGR 12)	≥ 7.959E-02	≥ 7.959E-02	≥ DCFEXT(58)
DCSF ≥ Pu-244	(Source: FGR 12)	≥ 7.548E-05	≥ 7.548E-05	≥ DCFEXT(59)
DCSF ≥ Ra-223	(Source: FGR 12)	≥ 6.034E-01	≥ 6.034E-01	≥ DCFEXT(60)
DCSF ≥ Ra-224	(Source: FGR 12)	≥ 5.119E-02	≥ 5.119E-02	≥ DCFEXT(61)
DCSF ≥ Ra-225	(Source: FGR 12)	≥ 1.102E-02	≥ 1.102E-02	≥ DCFEXT(62)
DCSF ≥ Ra-226	(Source: FGR 12)	≥ 3.176E-02	≥ 3.176E-02	≥ DCFEXT(63)
DCSF ≥ Ra-228	(Source: FGR 12)	≥ 0.000E+00	≥ 0.000E+00	≥ DCFEXT(64)
DCSF ≥ Rh-106	(Source: FGR 12)	≥ 1.291E+00	≥ 1.291E+00	≥ DCFEXT(65)
DCSF ≥ Rn-219	(Source: FGR 12)	≥ 3.083E-01	≥ 3.083E-01	≥ DCFEXT(66)
DCSF ≥ Rn-220	(Source: FGR 12)	≥ 2.298E-03	≥ 2.298E-03	≥ DCFEXT(67)
DCSF ≥ Rn-222	(Source: FGR 12)	≥ 2.354E-03	≥ 2.354E-03	≥ DCFEXT(68)
DCSF ≥ Ru-106	(Source: FGR 12)	≥ 0.000E+00	≥ 0.000E+00	≥ DCFEXT(69)
DCSF ≥ Sb-125	(Source: FGR 12)	≥ 2.447E+00	≥ 2.447E+00	≥ DCFEXT(70)
DCSF ≥ Sb-126	(Source: FGR 12)	≥ 1.711E+01	≥ 1.711E+01	≥ DCFEXT(71)
DCSF ≥ Sb-126m	(Source: FGR 12)	≥ 9.304E+00	≥ 9.304E+00	≥ DCFEXT(72)
DCSF ≥ Sm-147	(Source: FGR 12)	≥ 0.000E+00	≥ 0.000E+00	≥ DCFEXT(73)
DCSF ≥ Sm-151	(Source: FGR 12)	≥ 9.845E-07	≥ 9.845E-07	≥ DCFEXT(74)
DCSF ≥ Sn-121	(Source: FGR 12)	≥ 1.962E-04	≥ 1.962E-04	≥ DCFEXT(75)
DCSF ≥ Sn-121m	(Source: FGR 12)	≥ 1.962E-03	≥ 1.962E-03	≥ DCFEXT(76)
DCSF ≥ Sn-126	(Source: FGR 12)	≥ 1.474E-01	≥ 1.474E-01	≥ DCFEXT(77)
DCSF ≥ Sr-90	(Source: FGR 12)	≥ 7.043E-04	≥ 7.043E-04	≥ DCFEXT(78)
DCSF ≥ Te-125m	(Source: FGR 12)	≥ 1.515E-02	≥ 1.515E-02	≥ DCFEXT(79)
DCSF ≥ Th-227	(Source: FGR 12)	≥ 5.212E-01	≥ 5.212E-01	≥ DCFEXT(80)
DCSF ≥ Th-228	(Source: FGR 12)	≥ 7.940E-03	≥ 7.940E-03	≥ DCFEXT(81)

DCSF ≥ Th-229	(Source: FGR 12)	≥ 3.213E-01	≥ 3.213E-01	≥ DCFEXT(82)
DCSF ≥ Th-230	(Source: FGR 12)	≥ 1.209E-03	≥ 1.209E-03	≥ DCFEXT(83)
DCSF ≥ Th-231	(Source: FGR 12)	≥ 3.643E-02	≥ 3.643E-02	≥ DCFEXT(84)
DCSF ≥ Th-232	(Source: FGR 12)	≥ 5.212E-04	≥ 5.212E-04	≥ DCFEXT(85)
DCSF ≥ Th-234	(Source: FGR 12)	≥ 2.410E-02	≥ 2.410E-02	≥ DCFEXT(86)
DCSF ≥ Tl-207	(Source: FGR 12)	≥ 1.980E-02	≥ 1.980E-02	≥ DCFEXT(87)
DCSF ≥ Tl-208	(Source: FGR 12)	≥ 2.298E+01	≥ 2.298E+01	≥ DCFEXT(88)
DCSF ≥ Tl-209	(Source: FGR 12)	≥ 1.293E+01	≥ 1.293E+01	≥ DCFEXT(89)

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: FGR 12

Default Library: FGR 12

0	≥		≥	Current	≥		≥	Parameter
Menu	≥	Parameter	≥	Value	≥	Default	≥	Name
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DCSF ≥ Tl-210	(Source: no data)		≥	0.000E+00	≥	-2.000E+00	≥	DCFEXT( 90)
DCSF ≥ U-233	(Source: FGR 12)		≥	1.397E-03	≥	1.397E-03	≥	DCFEXT( 91)
DCSF ≥ U-234	(Source: FGR 12)		≥	4.017E-04	≥	4.017E-04	≥	DCFEXT( 92)
DCSF ≥ U-235	(Source: FGR 12)		≥	7.211E-01	≥	7.211E-01	≥	DCFEXT( 93)
DCSF ≥ U-236	(Source: FGR 12)		≥	2.148E-04	≥	2.148E-04	≥	DCFEXT( 94)
DCSF ≥ U-237	(Source: FGR 12)		≥	5.306E-01	≥	5.306E-01	≥	DCFEXT( 95)
DCSF ≥ U-238	(Source: FGR 12)		≥	1.031E-04	≥	1.031E-04	≥	DCFEXT( 96)
DCSF ≥ U-240	(Source: FGR 12)		≥	1.424E-03	≥	1.424E-03	≥	DCFEXT( 97)
DCSF ≥ Y-90	(Source: FGR 12)		≥	2.391E-02	≥	2.391E-02	≥	DCFEXT( 98)
	≥		≥		≥		≥	

Current Library: ICRP 72 (Adult)

Default Library: ICRP 72 (Adult)

0	≥		≥	Current	≥		≥	Parameter
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Menu ≥	Parameter	≥ Value	≥ Default	≥ Name
fffff~	fffff~	fffff~	fffff~	fffff~
DCSF ≥	Dose conversion factors for inhalation, mrem/pCi:	≥	≥	≥
DCSF ≥	Ac-227+D	≥ 2.104E+00	≥ 2.104E+00	≥ DCF2(1)
DCSF ≥	Al-26	≥ 7.400E-05	≥ 7.400E-05	≥ DCF2(2)
DCSF ≥	Am-241	≥ 3.552E-01	≥ 3.552E-01	≥ DCF2(3)
DCSF ≥	Am-243+D	≥ 3.552E-01	≥ 3.552E-01	≥ DCF2(4)
DCSF ≥	Cf-249	≥ 2.590E-01	≥ 2.590E-01	≥ DCF2(5)
DCSF ≥	Cf-251	≥ 2.627E-01	≥ 2.627E-01	≥ DCF2(8)
DCSF ≥	Cf-252	≥ 7.400E-02	≥ 7.400E-02	≥ DCF2(9)
DCSF ≥	Cl-36	≥ 2.701E-05	≥ 2.701E-05	≥ DCF2(14)
DCSF ≥	Cm-245	≥ 3.663E-01	≥ 3.663E-01	≥ DCF2(15)
DCSF ≥	Cm-247+D	≥ 3.330E-01	≥ 3.330E-01	≥ DCF2(17)
DCSF ≥	Cm-248	≥ 1.332E+00	≥ 1.332E+00	≥ DCF2(18)
DCSF ≥	Co-60	≥ 1.147E-04	≥ 1.147E-04	≥ DCF2(22)
DCSF ≥	Cs-134	≥ 7.400E-05	≥ 7.400E-05	≥ DCF2(23)
DCSF ≥	Cs-137+D	≥ 1.443E-04	≥ 1.443E-04	≥ DCF2(24)
DCSF ≥	Eu-154	≥ 1.961E-04	≥ 1.961E-04	≥ DCF2(25)
DCSF ≥	Eu-155	≥ 2.553E-05	≥ 2.553E-05	≥ DCF2(26)
DCSF ≥	H-3	≥ 9.620E-07	≥ 9.620E-07	≥ DCF2(27)
DCSF ≥	Ho-166m	≥ 4.440E-04	≥ 4.440E-04	≥ DCF2(28)
DCSF ≥	Na-22	≥ 4.810E-06	≥ 4.810E-06	≥ DCF2(29)
DCSF ≥	Np-237+D	≥ 1.850E-01	≥ 1.850E-01	≥ DCF2(30)
DCSF ≥	Pa-231	≥ 5.180E-01	≥ 5.180E-01	≥ DCF2(31)
DCSF ≥	Pb-210+D	≥ 2.106E-02	≥ 2.106E-02	≥ DCF2(32)
DCSF ≥	Pm-147	≥ 1.850E-05	≥ 1.850E-05	≥ DCF2(33)
DCSF ≥	Po-210	≥ 1.591E-02	≥ 1.591E-02	≥ DCF2(34)
DCSF ≥	Pu-238	≥ 4.070E-01	≥ 4.070E-01	≥ DCF2(35)
DCSF ≥	Pu-239	≥ 4.440E-01	≥ 4.440E-01	≥ DCF2(37)
DCSF ≥	Pu-240	≥ 4.440E-01	≥ 4.440E-01	≥ DCF2(38)

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Parent Dose Report

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File : INDUSTRIAL NO CAP BASE.ROF

## Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: ICRP 72 (Adult)

Default Library: ICRP 72 (Adult)

0	≥		≥	Current	≥	≥	Parameter		
Menu	≥		Parameter	≥	Value	≥	Default	≥	Name
fffff	≈	ffffffffff	ffffffffff	ffffffffff	ffffffffff	ffffffffff	ffffffffff	ffffffffff	ffffffffff
DCSF	≥	Pu-241		≥	8.510E-03	≥	8.510E-03	≥	DCF2(40)
DCSF	≥	Pu-241+D		≥	8.517E-03	≥	8.517E-03	≥	DCF2(41)
DCSF	≥	Pu-242		≥	4.070E-01	≥	4.070E-01	≥	DCF2(42)
DCSF	≥	Pu-244		≥	4.070E-01	≥	4.070E-01	≥	DCF2(45)
DCSF	≥	Pu-244+D		≥	4.070E-01	≥	4.070E-01	≥	DCF2(46)
DCSF	≥	Ra-226+D		≥	3.526E-02	≥	3.526E-02	≥	DCF2(48)
DCSF	≥	Ra-228+D		≥	5.929E-02	≥	5.929E-02	≥	DCF2(49)
DCSF	≥	Ru-106+D		≥	2.442E-04	≥	2.442E-04	≥	DCF2(50)
DCSF	≥	Sb-125		≥	4.440E-05	≥	4.440E-05	≥	DCF2(51)
DCSF	≥	Sm-147		≥	3.552E-02	≥	3.552E-02	≥	DCF2(53)
DCSF	≥	Sm-151		≥	1.480E-05	≥	1.480E-05	≥	DCF2(54)
DCSF	≥	Sn-121m+D		≥	1.731E-05	≥	1.731E-05	≥	DCF2(55)
DCSF	≥	Sn-126+D		≥	1.053E-04	≥	1.053E-04	≥	DCF2(56)
DCSF	≥	Sr-90+D		≥	5.976E-04	≥	5.976E-04	≥	DCF2(57)
DCSF	≥	Te-125m		≥	1.554E-05	≥	1.554E-05	≥	DCF2(58)
DCSF	≥	Th-228+D		≥	1.614E-01	≥	1.614E-01	≥	DCF2(59)
DCSF	≥	Th-229+D		≥	9.481E-01	≥	9.481E-01	≥	DCF2(60)
DCSF	≥	Th-230		≥	3.700E-01	≥	3.700E-01	≥	DCF2(61)
DCSF	≥	Th-232		≥	4.070E-01	≥	4.070E-01	≥	DCF2(62)
DCSF	≥	U-233		≥	3.552E-02	≥	3.552E-02	≥	DCF2(63)
DCSF	≥	U-234		≥	3.478E-02	≥	3.478E-02	≥	DCF2(64)
DCSF	≥	U-235+D		≥	3.145E-02	≥	3.145E-02	≥	DCF2(65)
DCSF	≥	U-236		≥	3.219E-02	≥	3.219E-02	≥	DCF2(66)
DCSF	≥	U-238		≥	2.960E-02	≥	2.960E-02	≥	DCF2(67)
DCSF	≥	U-238+D		≥	2.963E-02	≥	2.963E-02	≥	DCF2(68)

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File : INDUSTRIAL NO CAP BASE.ROF

Default Library: ICRP 72 (Adult)

Menu	Parameter	Current Value	Default	Parameter Name
DCSF	Na-22	1.184E-05	1.184E-05	DCF3(29)
DCSF	Np-237+D	4.102E-04	4.102E-04	DCF3(30)



DCSF $\geq$ Pa-231	$\geq 2.627E-03$	$\geq 2.627E-03$	$\geq$ DCF3(31)
DCSF $\geq$ Pb-210+D	$\geq 2.558E-03$	$\geq 2.558E-03$	$\geq$ DCF3(32)
DCSF $\geq$ Pm-147	$\geq 9.620E-07$	$\geq 9.620E-07$	$\geq$ DCF3(33)
DCSF $\geq$ Po-210	$\geq 4.440E-03$	$\geq 4.440E-03$	$\geq$ DCF3(34)
DCSF $\geq$ Pu-238	$\geq 8.510E-04$	$\geq 8.510E-04$	$\geq$ DCF3(35)
DCSF $\geq$ Pu-239	$\geq 9.250E-04$	$\geq 9.250E-04$	$\geq$ DCF3(37)
DCSF $\geq$ Pu-240	$\geq 9.250E-04$	$\geq 9.250E-04$	$\geq$ DCF3(38)
DCSF $\geq$ Pu-241	$\geq 1.776E-05$	$\geq 1.776E-05$	$\geq$ DCF3(40)
DCSF $\geq$ Pu-241+D	$\geq 2.057E-05$	$\geq 2.057E-05$	$\geq$ DCF3(41)
DCSF $\geq$ Pu-242	$\geq 8.880E-04$	$\geq 8.880E-04$	$\geq$ DCF3(42)
DCSF $\geq$ Pu-244	$\geq 8.880E-04$	$\geq 8.880E-04$	$\geq$ DCF3(45)
DCSF $\geq$ Pu-244+D	$\geq 8.921E-04$	$\geq 8.921E-04$	$\geq$ DCF3(46)
DCSF $\geq$ Ra-226+D	$\geq 1.037E-03$	$\geq 1.037E-03$	$\geq$ DCF3(48)
DCSF $\geq$ Ra-228+D	$\geq 2.555E-03$	$\geq 2.555E-03$	$\geq$ DCF3(49)
DCSF $\geq$ Ru-106+D	$\geq 2.590E-05$	$\geq 2.590E-05$	$\geq$ DCF3(50)
DCSF $\geq$ Sb-125	$\geq 4.070E-06$	$\geq 4.070E-06$	$\geq$ DCF3(51)
DCSF $\geq$ Sm-147	$\geq 1.813E-04$	$\geq 1.813E-04$	$\geq$ DCF3(53)
DCSF $\geq$ Sm-151	$\geq 3.626E-07$	$\geq 3.626E-07$	$\geq$ DCF3(54)
DCSF $\geq$ Sn-121m+D	$\geq 2.066E-06$	$\geq 2.066E-06$	$\geq$ DCF3(55)
DCSF $\geq$ Sn-126+D	$\geq 1.877E-05$	$\geq 1.877E-05$	$\geq$ DCF3(56)
DCSF $\geq$ Sr-90+D	$\geq 1.136E-04$	$\geq 1.136E-04$	$\geq$ DCF3(57)
DCSF $\geq$ Te-125m	$\geq 3.219E-06$	$\geq 3.219E-06$	$\geq$ DCF3(58)
DCSF $\geq$ Th-228+D	$\geq 5.301E-04$	$\geq 5.301E-04$	$\geq$ DCF3(59)
DCSF $\geq$ Th-229+D	$\geq 2.269E-03$	$\geq 2.269E-03$	$\geq$ DCF3(60)
DCSF $\geq$ Th-230	$\geq 7.770E-04$	$\geq 7.770E-04$	$\geq$ DCF3(61)
DCSF $\geq$ Th-232	$\geq 8.510E-04$	$\geq 8.510E-04$	$\geq$ DCF3(62)
DCSF $\geq$ U-233	$\geq 1.887E-04$	$\geq 1.887E-04$	$\geq$ DCF3(63)
DCSF $\geq$ U-234	$\geq 1.813E-04$	$\geq 1.813E-04$	$\geq$ DCF3(64)
DCSF $\geq$ U-235+D	$\geq 1.752E-04$	$\geq 1.752E-04$	$\geq$ DCF3(65)
DCSF $\geq$ U-236	$\geq 1.739E-04$	$\geq 1.739E-04$	$\geq$ DCF3(66)
DCSF $\geq$ U-238	$\geq 1.665E-04$	$\geq 1.665E-04$	$\geq$ DCF3(67)
DCSF $\geq$ U-238+D	$\geq 1.791E-04$	$\geq 1.791E-04$	$\geq$ DCF3(68)
$\geq$	$\geq$	$\geq$	$\geq$

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T' Limit = 30 days

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

## Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: RESRAD Default Transfer factors

Default Library: RESRAD Default Transfer factors

0	≥		≥	Current	≥	≥	Parameter
Menu	≥	Parameter	≥	Value	≥	Default	≥ Name
fffff	~	fffff	~	fffff	~	fffff	~
TF	≥	Soil to plant transfer factors:	≥		≥		≥
TF	≥	Ac-227+D , plant/soil concentration ratio, dimensionless	≥	2.500E-03	≥	2.500E-03	≥ RTF(1,1)
TF	≥	Ac-227+D , plant/soil concentration ratio, dimensionless	≥	2.500E-03	≥	2.500E-03	≥ RTF(1,2)
TF	≥	Ac-227+D , plant/soil concentration ratio, dimensionless	≥	2.500E-03	≥	2.500E-03	≥ RTF(1,3)
TF	≥	Ac-227+D , plant/soil concentration ratio, dimensionless	≥	2.500E-03	≥	2.500E-03	≥ RTF(1,4)
TF	≥		≥		≥		≥
TF	≥	Al-26 , plant/soil concentration ratio, dimensionless	≥	4.000E-03	≥	4.000E-03	≥ RTF(2,1)
TF	≥	Al-26 , plant/soil concentration ratio, dimensionless	≥	4.000E-03	≥	4.000E-03	≥ RTF(2,2)
TF	≥	Al-26 , plant/soil concentration ratio, dimensionless	≥	4.000E-03	≥	4.000E-03	≥ RTF(2,3)
TF	≥	Al-26 , plant/soil concentration ratio, dimensionless	≥	4.000E-03	≥	4.000E-03	≥ RTF(2,4)
TF	≥		≥		≥		≥
TF	≥	Am-241 , plant/soil concentration ratio, dimensionless	≥	1.000E-03	≥	1.000E-03	≥ RTF(3,1)
TF	≥	Am-241 , plant/soil concentration ratio, dimensionless	≥	1.000E-03	≥	1.000E-03	≥ RTF(3,2)
TF	≥	Am-241 , plant/soil concentration ratio, dimensionless	≥	1.000E-03	≥	1.000E-03	≥ RTF(3,3)
TF	≥	Am-241 , plant/soil concentration ratio, dimensionless	≥	1.000E-03	≥	1.000E-03	≥ RTF(3,4)
TF	≥		≥		≥		≥
TF	≥	Am-243+D , plant/soil concentration ratio, dimensionless	≥	1.000E-03	≥	1.000E-03	≥ RTF(4,1)
TF	≥	Am-243+D , plant/soil concentration ratio, dimensionless	≥	1.000E-03	≥	1.000E-03	≥ RTF(4,2)
TF	≥	Am-243+D , plant/soil concentration ratio, dimensionless	≥	1.000E-03	≥	1.000E-03	≥ RTF(4,3)
TF	≥	Am-243+D , plant/soil concentration ratio, dimensionless	≥	1.000E-03	≥	1.000E-03	≥ RTF(4,4)
TF	≥		≥		≥		≥
TF	≥	Cf-249 , plant/soil concentration ratio, dimensionless	≥	1.000E-03	≥	1.000E-03	≥ RTF(5,1)

TF	≥ Cf-249	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(5,2)
TF	≥ Cf-249	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(5,3)
TF	≥ Cf-249	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(5,4)
TF	≥		≥	≥	≥
TF	≥ Cf-251	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(8,1)
TF	≥ Cf-251	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(8,2)
TF	≥ Cf-251	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(8,3)
TF	≥ Cf-251	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(8,4)
TF	≥		≥	≥	≥
TF	≥ Cf-252	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(9,1)
TF	≥ Cf-252	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(9,2)
TF	≥ Cf-252	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(9,3)
TF	≥ Cf-252	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(9,4)
TF	≥		≥	≥	≥
TF	≥ Cl-36	, plant/soil concentration ratio, dimensionless	≥ 2.000E+01	≥ 2.000E+01	≥ RTF(14,1)
TF	≥ Cl-36	, plant/soil concentration ratio, dimensionless	≥ 2.000E+01	≥ 2.000E+01	≥ RTF(14,2)
TF	≥ Cl-36	, plant/soil concentration ratio, dimensionless	≥ 2.000E+01	≥ 2.000E+01	≥ RTF(14,3)
TF	≥ Cl-36	, plant/soil concentration ratio, dimensionless	≥ 2.000E+01	≥ 2.000E+01	≥ RTF(14,4)
TF	≥		≥	≥	≥
TF	≥ Cm-245	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(15,1)
TF	≥ Cm-245	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(15,2)
TF	≥ Cm-245	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(15,3)
TF	≥ Cm-245	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(15,4)

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## Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: RESRAD Default Transfer factors

Default Library: RESRAD Default Transfer factors

0	≥		≥	Current	≥		≥	Parameter
Menu	≥	Parameter	≥	Value	≥	Default	≥	Name

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fffff~ffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff~fffffffffff~ffffffffffff~fffffffffffff
TF ≥ Cm-247+D , plant/soil concentration ratio, dimensionless ≥ 1.000E-03 ≥ 1.000E-03 ≥ RTF(17,1)
TF ≥ Cm-247+D , plant/soil concentration ratio, dimensionless ≥ 1.000E-03 ≥ 1.000E-03 ≥ RTF(17,2)
TF ≥ Cm-247+D , plant/soil concentration ratio, dimensionless ≥ 1.000E-03 ≥ 1.000E-03 ≥ RTF(17,3)
TF ≥ Cm-247+D , plant/soil concentration ratio, dimensionless ≥ 1.000E-03 ≥ 1.000E-03 ≥ RTF(17,4)
TF ≥
TF ≥ Cm-248 , plant/soil concentration ratio, dimensionless ≥ 1.000E-03 ≥ 1.000E-03 ≥ RTF(18,1)
TF ≥ Cm-248 , plant/soil concentration ratio, dimensionless ≥ 1.000E-03 ≥ 1.000E-03 ≥ RTF(18,2)
TF ≥ Cm-248 , plant/soil concentration ratio, dimensionless ≥ 1.000E-03 ≥ 1.000E-03 ≥ RTF(18,3)
TF ≥ Cm-248 , plant/soil concentration ratio, dimensionless ≥ 1.000E-03 ≥ 1.000E-03 ≥ RTF(18,4)
TF ≥
TF ≥ Co-60 , plant/soil concentration ratio, dimensionless ≥ 8.000E-02 ≥ 8.000E-02 ≥ RTF(22,1)
TF ≥ Co-60 , plant/soil concentration ratio, dimensionless ≥ 8.000E-02 ≥ 8.000E-02 ≥ RTF(22,2)
TF ≥ Co-60 , plant/soil concentration ratio, dimensionless ≥ 8.000E-02 ≥ 8.000E-02 ≥ RTF(22,3)
TF ≥ Co-60 , plant/soil concentration ratio, dimensionless ≥ 8.000E-02 ≥ 8.000E-02 ≥ RTF(22,4)
TF ≥
TF ≥ Cs-134 , plant/soil concentration ratio, dimensionless ≥ 4.000E-02 ≥ 4.000E-02 ≥ RTF(23,1)
TF ≥ Cs-134 , plant/soil concentration ratio, dimensionless ≥ 4.000E-02 ≥ 4.000E-02 ≥ RTF(23,2)
TF ≥ Cs-134 , plant/soil concentration ratio, dimensionless ≥ 4.000E-02 ≥ 4.000E-02 ≥ RTF(23,3)
TF ≥ Cs-134 , plant/soil concentration ratio, dimensionless ≥ 4.000E-02 ≥ 4.000E-02 ≥ RTF(23,4)
TF ≥
TF ≥ Cs-137+D , plant/soil concentration ratio, dimensionless ≥ 4.000E-02 ≥ 4.000E-02 ≥ RTF(24,1)
TF ≥ Cs-137+D , plant/soil concentration ratio, dimensionless ≥ 4.000E-02 ≥ 4.000E-02 ≥ RTF(24,2)
TF ≥ Cs-137+D , plant/soil concentration ratio, dimensionless ≥ 4.000E-02 ≥ 4.000E-02 ≥ RTF(24,3)
TF ≥ Cs-137+D , plant/soil concentration ratio, dimensionless ≥ 4.000E-02 ≥ 4.000E-02 ≥ RTF(24,4)
TF ≥
TF ≥ Eu-154 , plant/soil concentration ratio, dimensionless ≥ 2.500E-03 ≥ 2.500E-03 ≥ RTF(25,1)
TF ≥ Eu-154 , plant/soil concentration ratio, dimensionless ≥ 2.500E-03 ≥ 2.500E-03 ≥ RTF(25,2)
TF ≥ Eu-154 , plant/soil concentration ratio, dimensionless ≥ 2.500E-03 ≥ 2.500E-03 ≥ RTF(25,3)
TF ≥ Eu-154 , plant/soil concentration ratio, dimensionless ≥ 2.500E-03 ≥ 2.500E-03 ≥ RTF(25,4)
TF ≥
TF ≥ Eu-155 , plant/soil concentration ratio, dimensionless ≥ 2.500E-03 ≥ 2.500E-03 ≥ RTF(26,1)
TF ≥ Eu-155 , plant/soil concentration ratio, dimensionless ≥ 2.500E-03 ≥ 2.500E-03 ≥ RTF(26,2)

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TF	≥	Eu-155	, plant/soil concentration ratio, dimensionless	≥ 2.500E-03	≥ 2.500E-03	≥ RTF(26,3)
TF	≥	Eu-155	, plant/soil concentration ratio, dimensionless	≥ 2.500E-03	≥ 2.500E-03	≥ RTF(26,4)
TF	≥			≥	≥	≥
TF	≥	H-3	, plant/soil concentration ratio, dimensionless	≥ 3.733E+00	≥ 4.800E+00	≥ RTF(27,1)
TF	≥	H-3	, plant/soil concentration ratio, dimensionless	≥ 3.733E+00	≥ 4.800E+00	≥ RTF(27,2)
TF	≥	H-3	, plant/soil concentration ratio, dimensionless	≥ 3.733E+00	≥ 4.800E+00	≥ RTF(27,3)
TF	≥	H-3	, plant/soil concentration ratio, dimensionless	≥ 3.733E+00	≥ 4.800E+00	≥ RTF(27,4)
TF	≥			≥	≥	≥
TF	≥	Ho-166m	, plant/soil concentration ratio, dimensionless	≥ 2.600E-03	≥ 2.600E-03	≥ RTF(28,1)
TF	≥	Ho-166m	, plant/soil concentration ratio, dimensionless	≥ 2.600E-03	≥ 2.600E-03	≥ RTF(28,2)
TF	≥	Ho-166m	, plant/soil concentration ratio, dimensionless	≥ 2.600E-03	≥ 2.600E-03	≥ RTF(28,3)
TF	≥	Ho-166m	, plant/soil concentration ratio, dimensionless	≥ 2.600E-03	≥ 2.600E-03	≥ RTF(28,4)
TF	≥			≥	≥	≥

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## Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: RESRAD Default Transfer factors

Default Library: RESRAD Default Transfer factors

0	≥			≥	Current	≥		≥	Parameter
Menu	≥		Parameter	≥	Value	≥	Default	≥	Name
fffff~	fffff	fffff	fffff	fffff	fffff	fffff	fffff	fffff	fffff
TF	≥	Na-22	, plant/soil concentration ratio, dimensionless	≥	5.000E-02	≥	5.000E-02	≥	RTF(29,1)
TF	≥	Na-22	, plant/soil concentration ratio, dimensionless	≥	5.000E-02	≥	5.000E-02	≥	RTF(29,2)
TF	≥	Na-22	, plant/soil concentration ratio, dimensionless	≥	5.000E-02	≥	5.000E-02	≥	RTF(29,3)
TF	≥	Na-22	, plant/soil concentration ratio, dimensionless	≥	5.000E-02	≥	5.000E-02	≥	RTF(29,4)
TF	≥			≥		≥		≥	
TF	≥	Np-237+D	, plant/soil concentration ratio, dimensionless	≥	2.000E-02	≥	2.000E-02	≥	RTF(30,1)
TF	≥	Np-237+D	, plant/soil concentration ratio, dimensionless	≥	2.000E-02	≥	2.000E-02	≥	RTF(30,2)
TF	≥	Np-237+D	, plant/soil concentration ratio, dimensionless	≥	2.000E-02	≥	2.000E-02	≥	RTF(30,3)
TF	≥	Np-237+D	, plant/soil concentration ratio, dimensionless	≥	2.000E-02	≥	2.000E-02	≥	RTF(30,4)

TF	≥				≥	≥	≥
TF	≥	Pa-231	, plant/soil concentration ratio, dimensionless		≥ 1.000E-02	≥ 1.000E-02	≥ RTF(31,1)
TF	≥	Pa-231	, plant/soil concentration ratio, dimensionless		≥ 1.000E-02	≥ 1.000E-02	≥ RTF(31,2)
TF	≥	Pa-231	, plant/soil concentration ratio, dimensionless		≥ 1.000E-02	≥ 1.000E-02	≥ RTF(31,3)
TF	≥	Pa-231	, plant/soil concentration ratio, dimensionless		≥ 1.000E-02	≥ 1.000E-02	≥ RTF(31,4)
TF	≥				≥	≥	≥
TF	≥	Pb-210+D	, plant/soil concentration ratio, dimensionless		≥ 1.000E-02	≥ 1.000E-02	≥ RTF(32,1)
TF	≥	Pb-210+D	, plant/soil concentration ratio, dimensionless		≥ 1.000E-02	≥ 1.000E-02	≥ RTF(32,2)
TF	≥	Pb-210+D	, plant/soil concentration ratio, dimensionless		≥ 1.000E-02	≥ 1.000E-02	≥ RTF(32,3)
TF	≥	Pb-210+D	, plant/soil concentration ratio, dimensionless		≥ 1.000E-02	≥ 1.000E-02	≥ RTF(32,4)
TF	≥				≥	≥	≥
TF	≥	Pm-147	, plant/soil concentration ratio, dimensionless		≥ 2.500E-03	≥ 2.500E-03	≥ RTF(33,1)
TF	≥	Pm-147	, plant/soil concentration ratio, dimensionless		≥ 2.500E-03	≥ 2.500E-03	≥ RTF(33,2)
TF	≥	Pm-147	, plant/soil concentration ratio, dimensionless		≥ 2.500E-03	≥ 2.500E-03	≥ RTF(33,3)
TF	≥	Pm-147	, plant/soil concentration ratio, dimensionless		≥ 2.500E-03	≥ 2.500E-03	≥ RTF(33,4)
TF	≥				≥	≥	≥
TF	≥	Po-210	, plant/soil concentration ratio, dimensionless		≥ 1.000E-03	≥ 1.000E-03	≥ RTF(34,1)
TF	≥	Po-210	, plant/soil concentration ratio, dimensionless		≥ 1.000E-03	≥ 1.000E-03	≥ RTF(34,2)
TF	≥	Po-210	, plant/soil concentration ratio, dimensionless		≥ 1.000E-03	≥ 1.000E-03	≥ RTF(34,3)
TF	≥	Po-210	, plant/soil concentration ratio, dimensionless		≥ 1.000E-03	≥ 1.000E-03	≥ RTF(34,4)
TF	≥				≥	≥	≥
TF	≥	Pu-238	, plant/soil concentration ratio, dimensionless		≥ 1.000E-03	≥ 1.000E-03	≥ RTF(35,1)
TF	≥	Pu-238	, plant/soil concentration ratio, dimensionless		≥ 1.000E-03	≥ 1.000E-03	≥ RTF(35,2)
TF	≥	Pu-238	, plant/soil concentration ratio, dimensionless		≥ 1.000E-03	≥ 1.000E-03	≥ RTF(35,3)
TF	≥	Pu-238	, plant/soil concentration ratio, dimensionless		≥ 1.000E-03	≥ 1.000E-03	≥ RTF(35,4)
TF	≥				≥	≥	≥
TF	≥	Pu-239	, plant/soil concentration ratio, dimensionless		≥ 1.000E-03	≥ 1.000E-03	≥ RTF(37,1)
TF	≥	Pu-239	, plant/soil concentration ratio, dimensionless		≥ 1.000E-03	≥ 1.000E-03	≥ RTF(37,2)
TF	≥	Pu-239	, plant/soil concentration ratio, dimensionless		≥ 1.000E-03	≥ 1.000E-03	≥ RTF(37,3)
TF	≥	Pu-239	, plant/soil concentration ratio, dimensionless		≥ 1.000E-03	≥ 1.000E-03	≥ RTF(37,4)
TF	≥				≥	≥	≥
TF	≥	Pu-240	, plant/soil concentration ratio, dimensionless		≥ 1.000E-03	≥ 1.000E-03	≥ RTF(38,1)
TF	≥	Pu-240	, plant/soil concentration ratio, dimensionless		≥ 1.000E-03	≥ 1.000E-03	≥ RTF(38,2)

TF ≥ Pu-240 , plant/soil concentration ratio, dimensionless ≥ 1.000E-03 ≥ 1.000E-03 ≥ RTF(38,3)  
 TF ≥ Pu-240 , plant/soil concentration ratio, dimensionless ≥ 1.000E-03 ≥ 1.000E-03 ≥ RTF(38,4)  
 TF ≥ ≥ ≥  
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## Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: RESRAD Default Transfer factors

Default Library: RESRAD Default Transfer factors

0	≥	≥	Current	≥	Parameter
Menu	≥	Parameter	Value	Default	Name
fffff~	fffff	fffff	fffff	fffff	fffff
TF	≥ Pu-241	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(40,1)
TF	≥ Pu-241	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(40,2)
TF	≥ Pu-241	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(40,3)
TF	≥ Pu-241	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(40,4)
TF	≥		≥	≥	≥
TF	≥ Pu-241+D	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(41,1)
TF	≥ Pu-241+D	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(41,2)
TF	≥ Pu-241+D	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(41,3)
TF	≥ Pu-241+D	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(41,4)
TF	≥		≥	≥	≥
TF	≥ Pu-242	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(42,1)
TF	≥ Pu-242	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(42,2)
TF	≥ Pu-242	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(42,3)
TF	≥ Pu-242	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(42,4)
TF	≥		≥	≥	≥
TF	≥ Pu-244	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(45,1)
TF	≥ Pu-244	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(45,2)
TF	≥ Pu-244	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(45,3)
TF	≥ Pu-244	, plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(45,4)

TF	≥		≥	≥	≥
TF	≥ Pu-244+D , plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(46,1)	
TF	≥ Pu-244+D , plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(46,2)	
TF	≥ Pu-244+D , plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(46,3)	
TF	≥ Pu-244+D , plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(46,4)	
TF	≥	≥	≥	≥	
TF	≥ Ra-226+D , plant/soil concentration ratio, dimensionless	≥ 4.000E-02	≥ 4.000E-02	≥ RTF(48,1)	
TF	≥ Ra-226+D , plant/soil concentration ratio, dimensionless	≥ 4.000E-02	≥ 4.000E-02	≥ RTF(48,2)	
TF	≥ Ra-226+D , plant/soil concentration ratio, dimensionless	≥ 4.000E-02	≥ 4.000E-02	≥ RTF(48,3)	
TF	≥ Ra-226+D , plant/soil concentration ratio, dimensionless	≥ 4.000E-02	≥ 4.000E-02	≥ RTF(48,4)	
TF	≥	≥	≥	≥	
TF	≥ Ra-228+D , plant/soil concentration ratio, dimensionless	≥ 4.000E-02	≥ 4.000E-02	≥ RTF(49,1)	
TF	≥ Ra-228+D , plant/soil concentration ratio, dimensionless	≥ 4.000E-02	≥ 4.000E-02	≥ RTF(49,2)	
TF	≥ Ra-228+D , plant/soil concentration ratio, dimensionless	≥ 4.000E-02	≥ 4.000E-02	≥ RTF(49,3)	
TF	≥ Ra-228+D , plant/soil concentration ratio, dimensionless	≥ 4.000E-02	≥ 4.000E-02	≥ RTF(49,4)	
TF	≥	≥	≥	≥	
TF	≥ Ru-106+D , plant/soil concentration ratio, dimensionless	≥ 3.000E-02	≥ 3.000E-02	≥ RTF(50,1)	
TF	≥ Ru-106+D , plant/soil concentration ratio, dimensionless	≥ 3.000E-02	≥ 3.000E-02	≥ RTF(50,2)	
TF	≥ Ru-106+D , plant/soil concentration ratio, dimensionless	≥ 3.000E-02	≥ 3.000E-02	≥ RTF(50,3)	
TF	≥ Ru-106+D , plant/soil concentration ratio, dimensionless	≥ 3.000E-02	≥ 3.000E-02	≥ RTF(50,4)	
TF	≥	≥	≥	≥	
TF	≥ Sb-125 , plant/soil concentration ratio, dimensionless	≥ 1.000E-02	≥ 1.000E-02	≥ RTF(51,1)	
TF	≥ Sb-125 , plant/soil concentration ratio, dimensionless	≥ 1.000E-02	≥ 1.000E-02	≥ RTF(51,2)	
TF	≥ Sb-125 , plant/soil concentration ratio, dimensionless	≥ 1.000E-02	≥ 1.000E-02	≥ RTF(51,3)	
TF	≥ Sb-125 , plant/soil concentration ratio, dimensionless	≥ 1.000E-02	≥ 1.000E-02	≥ RTF(51,4)	
TF	≥	≥	≥	≥	

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Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: RESRAD Default Transfer factors



## Default Library: RESRAD Default Transfer factors

0	≥			≥	Current	≥	≥	Parameter	
Menu	≥		Parameter	≥	Value	≥	Default	≥	Name
fffff	~	fffff	fffff	~	fffff	~	fffff	~	fffff
TF	≥	Sm-147	, plant/soil concentration ratio, dimensionless	≥	2.500E-03	≥	2.500E-03	≥	RTF(53,1)
TF	≥	Sm-147	, plant/soil concentration ratio, dimensionless	≥	2.500E-03	≥	2.500E-03	≥	RTF(53,2)
TF	≥	Sm-147	, plant/soil concentration ratio, dimensionless	≥	2.500E-03	≥	2.500E-03	≥	RTF(53,3)
TF	≥	Sm-147	, plant/soil concentration ratio, dimensionless	≥	2.500E-03	≥	2.500E-03	≥	RTF(53,4)
TF	≥			≥		≥		≥	
TF	≥	Sm-151	, plant/soil concentration ratio, dimensionless	≥	2.500E-03	≥	2.500E-03	≥	RTF(54,1)
TF	≥	Sm-151	, plant/soil concentration ratio, dimensionless	≥	2.500E-03	≥	2.500E-03	≥	RTF(54,2)
TF	≥	Sm-151	, plant/soil concentration ratio, dimensionless	≥	2.500E-03	≥	2.500E-03	≥	RTF(54,3)
TF	≥	Sm-151	, plant/soil concentration ratio, dimensionless	≥	2.500E-03	≥	2.500E-03	≥	RTF(54,4)
TF	≥			≥		≥		≥	
TF	≥	Sn-121m+D	, plant/soil concentration ratio, dimensionless	≥	2.500E-03	≥	2.500E-03	≥	RTF(55,1)
TF	≥	Sn-121m+D	, plant/soil concentration ratio, dimensionless	≥	2.500E-03	≥	2.500E-03	≥	RTF(55,2)
TF	≥	Sn-121m+D	, plant/soil concentration ratio, dimensionless	≥	2.500E-03	≥	2.500E-03	≥	RTF(55,3)
TF	≥	Sn-121m+D	, plant/soil concentration ratio, dimensionless	≥	2.500E-03	≥	2.500E-03	≥	RTF(55,4)
TF	≥			≥		≥		≥	
TF	≥	Sn-126+D	, plant/soil concentration ratio, dimensionless	≥	2.500E-03	≥	2.500E-03	≥	RTF(56,1)
TF	≥	Sn-126+D	, plant/soil concentration ratio, dimensionless	≥	2.500E-03	≥	2.500E-03	≥	RTF(56,2)
TF	≥	Sn-126+D	, plant/soil concentration ratio, dimensionless	≥	2.500E-03	≥	2.500E-03	≥	RTF(56,3)
TF	≥	Sn-126+D	, plant/soil concentration ratio, dimensionless	≥	2.500E-03	≥	2.500E-03	≥	RTF(56,4)
TF	≥			≥		≥		≥	
TF	≥	Sr-90+D	, plant/soil concentration ratio, dimensionless	≥	3.000E-01	≥	3.000E-01	≥	RTF(57,1)
TF	≥	Sr-90+D	, plant/soil concentration ratio, dimensionless	≥	3.000E-01	≥	3.000E-01	≥	RTF(57,2)
TF	≥	Sr-90+D	, plant/soil concentration ratio, dimensionless	≥	3.000E-01	≥	3.000E-01	≥	RTF(57,3)
TF	≥	Sr-90+D	, plant/soil concentration ratio, dimensionless	≥	3.000E-01	≥	3.000E-01	≥	RTF(57,4)
TF	≥			≥		≥		≥	
TF	≥	Te-125m	, plant/soil concentration ratio, dimensionless	≥	6.000E-01	≥	6.000E-01	≥	RTF(58,1)
TF	≥	Te-125m	, plant/soil concentration ratio, dimensionless	≥	6.000E-01	≥	6.000E-01	≥	RTF(58,2)
TF	≥	Te-125m	, plant/soil concentration ratio, dimensionless	≥	6.000E-01	≥	6.000E-01	≥	RTF(58,3)
TF	≥	Te-125m	, plant/soil concentration ratio, dimensionless	≥	6.000E-01	≥	6.000E-01	≥	RTF(58,4)

TF	≥		≥	≥	≥
TF	≥ Th-228+D , plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(59,1)	
TF	≥ Th-228+D , plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(59,2)	
TF	≥ Th-228+D , plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(59,3)	
TF	≥ Th-228+D , plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(59,4)	
TF	≥	≥	≥	≥	
TF	≥ Th-229+D , plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(60,1)	
TF	≥ Th-229+D , plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(60,2)	
TF	≥ Th-229+D , plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(60,3)	
TF	≥ Th-229+D , plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(60,4)	
TF	≥	≥	≥	≥	
TF	≥ Th-230 , plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(61,1)	
TF	≥ Th-230 , plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(61,2)	
TF	≥ Th-230 , plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(61,3)	
TF	≥ Th-230 , plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(61,4)	
TF	≥	≥	≥	≥	

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## Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: RESRAD Default Transfer factors

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0	≥		≥	Current	≥	Parameter
Menu	≥	Parameter	≥	Value	≥	Default
fffff	~	fffff	~	fffff	~	fffff
TF	≥ Th-232 , plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(62,1)		
TF	≥ Th-232 , plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(62,2)		
TF	≥ Th-232 , plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(62,3)		
TF	≥ Th-232 , plant/soil concentration ratio, dimensionless	≥ 1.000E-03	≥ 1.000E-03	≥ RTF(62,4)		
TF	≥	≥	≥	≥		
TF	≥ U-233 , plant/soil concentration ratio, dimensionless	≥ 2.500E-03	≥ 2.500E-03	≥ RTF(63,1)		

TF	≥ U-233	, plant/soil concentration ratio, dimensionless	≥ 2.500E-03	≥ 2.500E-03	≥ RTF(63,2)
TF	≥ U-233	, plant/soil concentration ratio, dimensionless	≥ 2.500E-03	≥ 2.500E-03	≥ RTF(63,3)
TF	≥ U-233	, plant/soil concentration ratio, dimensionless	≥ 2.500E-03	≥ 2.500E-03	≥ RTF(63,4)
TF	≥		≥	≥	≥
TF	≥ U-234	, plant/soil concentration ratio, dimensionless	≥ 2.500E-03	≥ 2.500E-03	≥ RTF(64,1)
TF	≥ U-234	, plant/soil concentration ratio, dimensionless	≥ 2.500E-03	≥ 2.500E-03	≥ RTF(64,2)
TF	≥ U-234	, plant/soil concentration ratio, dimensionless	≥ 2.500E-03	≥ 2.500E-03	≥ RTF(64,3)
TF	≥ U-234	, plant/soil concentration ratio, dimensionless	≥ 2.500E-03	≥ 2.500E-03	≥ RTF(64,4)
TF	≥		≥	≥	≥
TF	≥ U-235+D	, plant/soil concentration ratio, dimensionless	≥ 2.500E-03	≥ 2.500E-03	≥ RTF(65,1)
TF	≥ U-235+D	, plant/soil concentration ratio, dimensionless	≥ 2.500E-03	≥ 2.500E-03	≥ RTF(65,2)
TF	≥ U-235+D	, plant/soil concentration ratio, dimensionless	≥ 2.500E-03	≥ 2.500E-03	≥ RTF(65,3)
TF	≥ U-235+D	, plant/soil concentration ratio, dimensionless	≥ 2.500E-03	≥ 2.500E-03	≥ RTF(65,4)
TF	≥		≥	≥	≥
TF	≥ U-236	, plant/soil concentration ratio, dimensionless	≥ 2.500E-03	≥ 2.500E-03	≥ RTF(66,1)
TF	≥ U-236	, plant/soil concentration ratio, dimensionless	≥ 2.500E-03	≥ 2.500E-03	≥ RTF(66,2)
TF	≥ U-236	, plant/soil concentration ratio, dimensionless	≥ 2.500E-03	≥ 2.500E-03	≥ RTF(66,3)
TF	≥ U-236	, plant/soil concentration ratio, dimensionless	≥ 2.500E-03	≥ 2.500E-03	≥ RTF(66,4)
TF	≥		≥	≥	≥
TF	≥ U-238	, plant/soil concentration ratio, dimensionless	≥ 2.500E-03	≥ 2.500E-03	≥ RTF(67,1)
TF	≥ U-238	, plant/soil concentration ratio, dimensionless	≥ 2.500E-03	≥ 2.500E-03	≥ RTF(67,2)
TF	≥ U-238	, plant/soil concentration ratio, dimensionless	≥ 2.500E-03	≥ 2.500E-03	≥ RTF(67,3)
TF	≥ U-238	, plant/soil concentration ratio, dimensionless	≥ 2.500E-03	≥ 2.500E-03	≥ RTF(67,4)
TF	≥		≥	≥	≥
TF	≥ U-238+D	, plant/soil concentration ratio, dimensionless	≥ 2.500E-03	≥ 2.500E-03	≥ RTF(68,1)
TF	≥ U-238+D	, plant/soil concentration ratio, dimensionless	≥ 2.500E-03	≥ 2.500E-03	≥ RTF(68,2)
TF	≥ U-238+D	, plant/soil concentration ratio, dimensionless	≥ 2.500E-03	≥ 2.500E-03	≥ RTF(68,3)
TF	≥ U-238+D	, plant/soil concentration ratio, dimensionless	≥ 2.500E-03	≥ 2.500E-03	≥ RTF(68,4)
TF	≥		≥	≥	≥
TF	≥ intake to meat/milk transfer factors:		≥	≥	≥
TF	≥ Ac-227+D	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 2.000E-05	≥ 2.000E-05	≥ I_M(1,1)
TF	≥ Ac-227+D	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 2.000E-05	≥ 2.000E-05	≥ I_M(1,2)
TF	≥		≥	≥	≥

TF	≥	Al-26	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥	5.000E-04	≥	5.000E-04	≥	I_M(2,1)
TF	≥	Al-26	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥	2.000E-04	≥	2.000E-04	≥	I_M(2,2)
TF	≥			≥		≥		≥	
TF	≥	Am-241	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥	5.000E-05	≥	5.000E-05	≥	I_M(3,1)
TF	≥	Am-241	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥	2.000E-06	≥	2.000E-06	≥	I_M(3,2)
TF	≥			≥		≥		≥	

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Current Library: RESRAD Default Transfer factors

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0	≥			≥	Current	≥		≥	Parameter
Menu	≥		Parameter	≥	Value	≥	Default	≥	Name
fffff~	fffff	fffff	fffff	fffff	fffff	fffff	fffff	fffff	fffff
TF	≥	Am-243+D	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥	5.000E-05	≥	5.000E-05	≥	I_M(4,1)
TF	≥	Am-243+D	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥	2.000E-06	≥	2.000E-06	≥	I_M(4,2)
TF	≥			≥		≥		≥	
TF	≥	Cf-249	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥	6.000E-05	≥	6.000E-05	≥	I_M(5,1)
TF	≥	Cf-249	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥	7.500E-07	≥	7.500E-07	≥	I_M(5,2)
TF	≥			≥		≥		≥	
TF	≥	Cf-251	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥	6.000E-05	≥	6.000E-05	≥	I_M(8,1)
TF	≥	Cf-251	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥	7.500E-07	≥	7.500E-07	≥	I_M(8,2)
TF	≥			≥		≥		≥	
TF	≥	Cf-252	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥	6.000E-05	≥	6.000E-05	≥	I_M(9,1)
TF	≥	Cf-252	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥	7.500E-07	≥	7.500E-07	≥	I_M(9,2)
TF	≥			≥		≥		≥	
TF	≥	Cl-36	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥	6.000E-02	≥	6.000E-02	≥	I_M(14,1)
TF	≥	Cl-36	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥	2.000E-02	≥	2.000E-02	≥	I_M(14,2)
TF	≥			≥		≥		≥	
TF	≥	Cm-245	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥	2.000E-05	≥	2.000E-05	≥	I_M(15,1)

TF	≥ Cm-245	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 2.000E-06	≥ 2.000E-06	≥ I_M(15,2)
TF	≥		≥	≥	≥
TF	≥ Cm-247+D	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 2.000E-05	≥ 2.000E-05	≥ I_M(17,1)
TF	≥ Cm-247+D	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 2.000E-06	≥ 2.000E-06	≥ I_M(17,2)
TF	≥		≥	≥	≥
TF	≥ Cm-248	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 2.000E-05	≥ 2.000E-05	≥ I_M(18,1)
TF	≥ Cm-248	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 2.000E-06	≥ 2.000E-06	≥ I_M(18,2)
TF	≥		≥	≥	≥
TF	≥ Co-60	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 2.000E-02	≥ 2.000E-02	≥ I_M(22,1)
TF	≥ Co-60	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 2.000E-03	≥ 2.000E-03	≥ I_M(22,2)
TF	≥		≥	≥	≥
TF	≥ Cs-134	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 3.000E-02	≥ 3.000E-02	≥ I_M(23,1)
TF	≥ Cs-134	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 8.000E-03	≥ 8.000E-03	≥ I_M(23,2)
TF	≥		≥	≥	≥
TF	≥ Cs-137+D	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 3.000E-02	≥ 3.000E-02	≥ I_M(24,1)
TF	≥ Cs-137+D	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 8.000E-03	≥ 8.000E-03	≥ I_M(24,2)
TF	≥		≥	≥	≥
TF	≥ Eu-154	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 2.000E-03	≥ 2.000E-03	≥ I_M(25,1)
TF	≥ Eu-154	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 5.000E-05	≥ 5.000E-05	≥ I_M(25,2)
TF	≥		≥	≥	≥
TF	≥ Eu-155	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 2.000E-03	≥ 2.000E-03	≥ I_M(26,1)
TF	≥ Eu-155	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 5.000E-05	≥ 5.000E-05	≥ I_M(26,2)
TF	≥		≥	≥	≥
TF	≥ H-3	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 5.741E-03	≥ 1.200E-02	≥ I_M(27,1)
TF	≥ H-3	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 4.311E-03	≥ 1.000E-02	≥ I_M(27,2)
TF	≥		≥	≥	≥
TF	≥ Ho-166m	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 2.000E-03	≥ 2.000E-03	≥ I_M(28,1)
TF	≥ Ho-166m	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 2.000E-05	≥ 2.000E-05	≥ I_M(28,2)
TF	≥		≥	≥	≥

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Current Library: RESRAD Default Transfer factors

Default Library: RESRAD Default Transfer factors

0	≥		≥	Current	≥	≥	Parameter	
Menu	≥	Parameter	≥	Value	≥	Default	≥	Name
fffff	~	ffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff	~	fffffffffffff	~	fffffffffffff	~	fffffffffffff
TF	≥	Na-22 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥	8.000E-02	≥	8.000E-02	≥	I_M(29,1)
TF	≥	Na-22 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥	4.000E-02	≥	4.000E-02	≥	I_M(29,2)
TF	≥		≥		≥		≥	
TF	≥	Np-237+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥	1.000E-03	≥	1.000E-03	≥	I_M(30,1)
TF	≥	Np-237+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥	5.000E-06	≥	5.000E-06	≥	I_M(30,2)
TF	≥		≥		≥		≥	
TF	≥	Pa-231 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥	5.000E-03	≥	5.000E-03	≥	I_M(31,1)
TF	≥	Pa-231 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥	5.000E-06	≥	5.000E-06	≥	I_M(31,2)
TF	≥		≥		≥		≥	
TF	≥	Pb-210+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥	8.000E-04	≥	8.000E-04	≥	I_M(32,1)
TF	≥	Pb-210+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥	3.000E-04	≥	3.000E-04	≥	I_M(32,2)
TF	≥		≥		≥		≥	
TF	≥	Pm-147 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥	2.000E-03	≥	2.000E-03	≥	I_M(33,1)
TF	≥	Pm-147 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥	2.000E-05	≥	2.000E-05	≥	I_M(33,2)
TF	≥		≥		≥		≥	
TF	≥	Po-210 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥	5.000E-03	≥	5.000E-03	≥	I_M(34,1)
TF	≥	Po-210 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥	3.400E-04	≥	3.400E-04	≥	I_M(34,2)
TF	≥		≥		≥		≥	
TF	≥	Pu-238 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥	1.000E-04	≥	1.000E-04	≥	I_M(35,1)
TF	≥	Pu-238 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥	1.000E-06	≥	1.000E-06	≥	I_M(35,2)
TF	≥		≥		≥		≥	
TF	≥	Pu-239 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥	1.000E-04	≥	1.000E-04	≥	I_M(37,1)
TF	≥	Pu-239 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥	1.000E-06	≥	1.000E-06	≥	I_M(37,2)
TF	≥		≥		≥		≥	
TF	≥	Pu-240 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥	1.000E-04	≥	1.000E-04	≥	I_M(38,1)
TF	≥	Pu-240 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥	1.000E-06	≥	1.000E-06	≥	I_M(38,2)

TF	≥			≥	≥	≥
TF	≥	Pu-241	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 1.000E-04	≥ 1.000E-04	≥ I_M(40,1)
TF	≥	Pu-241	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 1.000E-06	≥ 1.000E-06	≥ I_M(40,2)
TF	≥			≥	≥	≥
TF	≥	Pu-241+D	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 1.000E-04	≥ 1.000E-04	≥ I_M(41,1)
TF	≥	Pu-241+D	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 1.000E-06	≥ 1.000E-06	≥ I_M(41,2)
TF	≥			≥	≥	≥
TF	≥	Pu-242	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 1.000E-04	≥ 1.000E-04	≥ I_M(42,1)
TF	≥	Pu-242	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 1.000E-06	≥ 1.000E-06	≥ I_M(42,2)
TF	≥			≥	≥	≥
TF	≥	Pu-244	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 1.000E-04	≥ 1.000E-04	≥ I_M(45,1)
TF	≥	Pu-244	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 1.000E-06	≥ 1.000E-06	≥ I_M(45,2)
TF	≥			≥	≥	≥
TF	≥	Pu-244+D	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 1.000E-04	≥ 1.000E-04	≥ I_M(46,1)
TF	≥	Pu-244+D	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 1.000E-06	≥ 1.000E-06	≥ I_M(46,2)
TF	≥			≥	≥	≥
TF	≥	Ra-226+D	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 1.000E-03	≥ 1.000E-03	≥ I_M(48,1)
TF	≥	Ra-226+D	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 1.000E-03	≥ 1.000E-03	≥ I_M(48,2)
TF	≥			≥	≥	≥

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Current Library: RESRAD Default Transfer factors

Default Library: RESRAD Default Transfer factors

0	≥		≥	Current	≥	≥	Parameter
Menu	≥	Parameter	≥	Value	≥	Default	≥ Name
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TF	≥	Ra-228+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 1.000E-03	≥ 1.000E-03	≥	≥	I_M(49,1)
TF	≥	Ra-228+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 1.000E-03	≥ 1.000E-03	≥	≥	I_M(49,2)
TF	≥		≥	≥	≥	≥	

TF	≥ Ru-106+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 2.000E-03	≥ 2.000E-03	≥ I_M(50,1)
TF	≥ Ru-106+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 3.300E-06	≥ 3.300E-06	≥ I_M(50,2)
TF	≥	≥	≥	
TF	≥ Sb-125 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 1.000E-03	≥ 1.000E-03	≥ I_M(51,1)
TF	≥ Sb-125 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 1.000E-04	≥ 1.000E-04	≥ I_M(51,2)
TF	≥	≥	≥	
TF	≥ Sm-147 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 2.000E-03	≥ 2.000E-03	≥ I_M(53,1)
TF	≥ Sm-147 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 2.000E-05	≥ 2.000E-05	≥ I_M(53,2)
TF	≥	≥	≥	
TF	≥ Sm-151 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 2.000E-03	≥ 2.000E-03	≥ I_M(54,1)
TF	≥ Sm-151 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 2.000E-05	≥ 2.000E-05	≥ I_M(54,2)
TF	≥	≥	≥	
TF	≥ Sn-121m+D, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 1.000E-02	≥ 1.000E-02	≥ I_M(55,1)
TF	≥ Sn-121m+D, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 1.000E-03	≥ 1.000E-03	≥ I_M(55,2)
TF	≥	≥	≥	
TF	≥ Sn-126+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 1.000E-02	≥ 1.000E-02	≥ I_M(56,1)
TF	≥ Sn-126+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 1.000E-03	≥ 1.000E-03	≥ I_M(56,2)
TF	≥	≥	≥	
TF	≥ Sr-90+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 8.000E-03	≥ 8.000E-03	≥ I_M(57,1)
TF	≥ Sr-90+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 2.000E-03	≥ 2.000E-03	≥ I_M(57,2)
TF	≥	≥	≥	
TF	≥ Te-125m , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 7.000E-03	≥ 7.000E-03	≥ I_M(58,1)
TF	≥ Te-125m , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 5.000E-04	≥ 5.000E-04	≥ I_M(58,2)
TF	≥	≥	≥	
TF	≥ Th-228+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 1.000E-04	≥ 1.000E-04	≥ I_M(59,1)
TF	≥ Th-228+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 5.000E-06	≥ 5.000E-06	≥ I_M(59,2)
TF	≥	≥	≥	
TF	≥ Th-229+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 1.000E-04	≥ 1.000E-04	≥ I_M(60,1)
TF	≥ Th-229+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 5.000E-06	≥ 5.000E-06	≥ I_M(60,2)
TF	≥	≥	≥	
TF	≥ Th-230 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 1.000E-04	≥ 1.000E-04	≥ I_M(61,1)
TF	≥ Th-230 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 5.000E-06	≥ 5.000E-06	≥ I_M(61,2)
TF	≥	≥	≥	

TF	≥ Th-232	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 1.000E-04	≥ 1.000E-04	≥ I_M(62,1)
TF	≥ Th-232	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 5.000E-06	≥ 5.000E-06	≥ I_M(62,2)
TF	≥		≥	≥	≥
TF	≥ U-233	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 3.400E-04	≥ 3.400E-04	≥ I_M(63,1)
TF	≥ U-233	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 6.000E-04	≥ 6.000E-04	≥ I_M(63,2)
TF	≥		≥	≥	≥
TF	≥ U-234	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥ 3.400E-04	≥ 3.400E-04	≥ I_M(64,1)
TF	≥ U-234	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥ 6.000E-04	≥ 6.000E-04	≥ I_M(64,2)
TF	≥		≥	≥	≥

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T' Limit = 30 days

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: RESRAD Default Transfer factors

Default Library: RESRAD Default Transfer factors

0	≥		≥	Current	≥	Parameter		
Menu	≥	Parameter	≥	Value	≥	Default	≥	Name
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TF	≥	U-235+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥	3.400E-04	≥	3.400E-04	≥	I_M(65,1)
TF	≥	U-235+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥	6.000E-04	≥	6.000E-04	≥	I_M(65,2)
TF	≥		≥		≥		≥	
TF	≥	U-236 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥	3.400E-04	≥	3.400E-04	≥	I_M(66,1)
TF	≥	U-236 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥	6.000E-04	≥	6.000E-04	≥	I_M(66,2)
TF	≥		≥		≥		≥	
TF	≥	U-238 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥	3.400E-04	≥	3.400E-04	≥	I_M(67,1)
TF	≥	U-238 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥	6.000E-04	≥	6.000E-04	≥	I_M(67,2)
TF	≥		≥		≥		≥	
TF	≥	U-238+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	≥	3.400E-04	≥	3.400E-04	≥	I_M(68,1)
TF	≥	U-238+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	≥	6.000E-04	≥	6.000E-04	≥	I_M(68,2)
	≥		≥		≥		≥	
TF	≥	Bioaccumulation factors, fresh water, L/kg:	≥		≥		≥	

TF	≥ Ac-227+D , fish	≥ 1.500E+01	≥ 1.500E+01	≥ BIOFA(1,1)
TF	≥ Ac-227+D , crustacea and mollusks	≥ 1.000E+03	≥ 1.000E+03	≥ BIOFA(1,2)
TF	≥	≥	≥	
TF	≥ Al-26 , fish	≥ 5.000E+02	≥ 5.000E+02	≥ BIOFA(2,1)
TF	≥ Al-26 , crustacea and mollusks	≥ 1.000E+03	≥ 1.000E+03	≥ BIOFA(2,2)
TF	≥	≥	≥	
TF	≥ Am-241 , fish	≥ 3.000E+01	≥ 3.000E+01	≥ BIOFA(3,1)
TF	≥ Am-241 , crustacea and mollusks	≥ 1.000E+03	≥ 1.000E+03	≥ BIOFA(3,2)
TF	≥	≥	≥	
TF	≥ Am-243+D , fish	≥ 3.000E+01	≥ 3.000E+01	≥ BIOFA(4,1)
TF	≥ Am-243+D , crustacea and mollusks	≥ 1.000E+03	≥ 1.000E+03	≥ BIOFA(4,2)
TF	≥	≥	≥	
TF	≥ Cf-249 , fish	≥ 2.500E+01	≥ 2.500E+01	≥ BIOFA(5,1)
TF	≥ Cf-249 , crustacea and mollusks	≥ 1.000E+03	≥ 1.000E+03	≥ BIOFA(5,2)
TF	≥	≥	≥	
TF	≥ Cf-251 , fish	≥ 2.500E+01	≥ 2.500E+01	≥ BIOFA(8,1)
TF	≥ Cf-251 , crustacea and mollusks	≥ 1.000E+03	≥ 1.000E+03	≥ BIOFA(8,2)
TF	≥	≥	≥	
TF	≥ Cf-252 , fish	≥ 2.500E+01	≥ 2.500E+01	≥ BIOFA(9,1)
TF	≥ Cf-252 , crustacea and mollusks	≥ 1.000E+03	≥ 1.000E+03	≥ BIOFA(9,2)
TF	≥	≥	≥	
TF	≥ Cl-36 , fish	≥ 1.000E+03	≥ 1.000E+03	≥ BIOFA(14,1)
TF	≥ Cl-36 , crustacea and mollusks	≥ 1.900E+02	≥ 1.900E+02	≥ BIOFA(14,2)
TF	≥	≥	≥	
TF	≥ Cm-245 , fish	≥ 3.000E+01	≥ 3.000E+01	≥ BIOFA(15,1)
TF	≥ Cm-245 , crustacea and mollusks	≥ 1.000E+03	≥ 1.000E+03	≥ BIOFA(15,2)
TF	≥	≥	≥	
TF	≥ Cm-247+D , fish	≥ 3.000E+01	≥ 3.000E+01	≥ BIOFA(17,1)
TF	≥ Cm-247+D , crustacea and mollusks	≥ 1.000E+03	≥ 1.000E+03	≥ BIOFA(17,2)
TF	≥	≥	≥	
TF	≥ Cm-248 , fish	≥ 3.000E+01	≥ 3.000E+01	≥ BIOFA(18,1)
TF	≥ Cm-248 , crustacea and mollusks	≥ 1.000E+03	≥ 1.000E+03	≥ BIOFA(18,2)

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T' Limit = 30 days

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## Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

## Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: RESRAD Default Transfer factors

Default Library: RESRAD Default Transfer factors

0	≥		≥	Current	≥	Parameter		
Menu	≥	Parameter	≥	Value	≥	Default	≥	Name
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ffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff						

TF	≥		≥	≥	≥
TF	≥	Np-237+D , fish	≥ 3.000E+01	≥ 3.000E+01	≥ BIOFA(30,1)
TF	≥	Np-237+D , crustacea and mollusks	≥ 4.000E+02	≥ 4.000E+02	≥ BIOFA(30,2)
TF	≥		≥	≥	≥
TF	≥	Pa-231 , fish	≥ 1.000E+01	≥ 1.000E+01	≥ BIOFA(31,1)
TF	≥	Pa-231 , crustacea and mollusks	≥ 1.100E+02	≥ 1.100E+02	≥ BIOFA(31,2)
TF	≥		≥	≥	≥
TF	≥	Pb-210+D , fish	≥ 3.000E+02	≥ 3.000E+02	≥ BIOFA(32,1)
TF	≥	Pb-210+D , crustacea and mollusks	≥ 1.000E+02	≥ 1.000E+02	≥ BIOFA(32,2)
TF	≥		≥	≥	≥
TF	≥	Pm-147 , fish	≥ 3.000E+01	≥ 3.000E+01	≥ BIOFA(33,1)
TF	≥	Pm-147 , crustacea and mollusks	≥ 1.000E+03	≥ 1.000E+03	≥ BIOFA(33,2)
TF	≥		≥	≥	≥
TF	≥	Po-210 , fish	≥ 1.000E+02	≥ 1.000E+02	≥ BIOFA(34,1)
TF	≥	Po-210 , crustacea and mollusks	≥ 2.000E+04	≥ 2.000E+04	≥ BIOFA(34,2)
TF	≥		≥	≥	≥
TF	≥	Pu-238 , fish	≥ 3.000E+01	≥ 3.000E+01	≥ BIOFA(35,1)
TF	≥	Pu-238 , crustacea and mollusks	≥ 1.000E+02	≥ 1.000E+02	≥ BIOFA(35,2)
TF	≥		≥	≥	≥
TF	≥	Pu-239 , fish	≥ 3.000E+01	≥ 3.000E+01	≥ BIOFA(37,1)
TF	≥	Pu-239 , crustacea and mollusks	≥ 1.000E+02	≥ 1.000E+02	≥ BIOFA(37,2)
TF	≥		≥	≥	≥

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: RESRAD Default Transfer factors

Default Library: RESRAD Default Transfer factors

0	≥		≥	Current	≥		≥	Parameter
Menu	≥	Parameter	≥	Value	≥	Default	≥	Name
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TF	≥ Pu-240	, fish	≥ 3.000E+01	≥ 3.000E+01	≥ BIOFA(38,1)
TF	≥ Pu-240	, crustacea and mollusks	≥ 1.000E+02	≥ 1.000E+02	≥ BIOFA(38,2)
TF	≥		≥	≥	≥
TF	≥ Pu-241	, fish	≥ 3.000E+01	≥ 3.000E+01	≥ BIOFA(40,1)
TF	≥ Pu-241	, crustacea and mollusks	≥ 1.000E+02	≥ 1.000E+02	≥ BIOFA(40,2)
TF	≥		≥	≥	≥
TF	≥ Pu-241+D	, fish	≥ 3.000E+01	≥ 3.000E+01	≥ BIOFA(41,1)
TF	≥ Pu-241+D	, crustacea and mollusks	≥ 1.000E+02	≥ 1.000E+02	≥ BIOFA(41,2)
TF	≥		≥	≥	≥
TF	≥ Pu-242	, fish	≥ 3.000E+01	≥ 3.000E+01	≥ BIOFA(42,1)
TF	≥ Pu-242	, crustacea and mollusks	≥ 1.000E+02	≥ 1.000E+02	≥ BIOFA(42,2)
TF	≥		≥	≥	≥
TF	≥ Pu-244	, fish	≥ 3.000E+01	≥ 3.000E+01	≥ BIOFA(45,1)
TF	≥ Pu-244	, crustacea and mollusks	≥ 1.000E+02	≥ 1.000E+02	≥ BIOFA(45,2)
TF	≥		≥	≥	≥
TF	≥ Pu-244+D	, fish	≥ 3.000E+01	≥ 3.000E+01	≥ BIOFA(46,1)
TF	≥ Pu-244+D	, crustacea and mollusks	≥ 1.000E+02	≥ 1.000E+02	≥ BIOFA(46,2)
TF	≥		≥	≥	≥
TF	≥ Ra-226+D	, fish	≥ 5.000E+01	≥ 5.000E+01	≥ BIOFA(48,1)
TF	≥ Ra-226+D	, crustacea and mollusks	≥ 2.500E+02	≥ 2.500E+02	≥ BIOFA(48,2)
TF	≥		≥	≥	≥
TF	≥ Ra-228+D	, fish	≥ 5.000E+01	≥ 5.000E+01	≥ BIOFA(49,1)
TF	≥ Ra-228+D	, crustacea and mollusks	≥ 2.500E+02	≥ 2.500E+02	≥ BIOFA(49,2)
TF	≥		≥	≥	≥
TF	≥ Ru-106+D	, fish	≥ 1.000E+01	≥ 1.000E+01	≥ BIOFA(50,1)
TF	≥ Ru-106+D	, crustacea and mollusks	≥ 3.000E+02	≥ 3.000E+02	≥ BIOFA(50,2)
TF	≥		≥	≥	≥
TF	≥ Sb-125	, fish	≥ 1.000E+02	≥ 1.000E+02	≥ BIOFA(51,1)
TF	≥ Sb-125	, crustacea and mollusks	≥ 1.000E+01	≥ 1.000E+01	≥ BIOFA(51,2)
TF	≥		≥	≥	≥
TF	≥ Sm-147	, fish	≥ 2.500E+01	≥ 2.500E+01	≥ BIOFA(53,1)
TF	≥ Sm-147	, crustacea and mollusks	≥ 1.000E+03	≥ 1.000E+03	≥ BIOFA(53,2)
TF	≥		≥	≥	≥

TF	≥ Sm-151	, fish	≥ 2.500E+01	≥ 2.500E+01	≥ BIOFA(54,1)
TF	≥ Sm-151	, crustacea and mollusks	≥ 1.000E+03	≥ 1.000E+03	≥ BIOFA(54,2)
TF	≥		≥	≥	≥
TF	≥ Sn-121m+D	, fish	≥ 3.000E+03	≥ 3.000E+03	≥ BIOFA(55,1)
TF	≥ Sn-121m+D	, crustacea and mollusks	≥ 1.000E+03	≥ 1.000E+03	≥ BIOFA(55,2)
TF	≥		≥	≥	≥
TF	≥ Sn-126+D	, fish	≥ 3.000E+03	≥ 3.000E+03	≥ BIOFA(56,1)
TF	≥ Sn-126+D	, crustacea and mollusks	≥ 1.000E+03	≥ 1.000E+03	≥ BIOFA(56,2)
TF	≥		≥	≥	≥
TF	≥ Sr-90+D	, fish	≥ 6.000E+01	≥ 6.000E+01	≥ BIOFA(57,1)
TF	≥ Sr-90+D	, crustacea and mollusks	≥ 1.000E+02	≥ 1.000E+02	≥ BIOFA(57,2)
TF	≥		≥	≥	≥

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T' Limit = 30 days

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

## Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: RESRAD Default Transfer factors

Default Library: RESRAD Default Transfer factors

0	≥		≥	Current	≥	≥	Parameter
Menu	≥	Parameter	≥	Value	≥	Default	≥ Name
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TF	≥ Te-125m	, fish	≥ 4.000E+02	≥ 4.000E+02	≥ BIOFA(58,1)		
TF	≥ Te-125m	, crustacea and mollusks	≥ 7.500E+01	≥ 7.500E+01	≥ BIOFA(58,2)		
TF	≥		≥	≥	≥		
TF	≥ Th-228+D	, fish	≥ 1.000E+02	≥ 1.000E+02	≥ BIOFA(59,1)		
TF	≥ Th-228+D	, crustacea and mollusks	≥ 5.000E+02	≥ 5.000E+02	≥ BIOFA(59,2)		
TF	≥		≥	≥	≥		
TF	≥ Th-229+D	, fish	≥ 1.000E+02	≥ 1.000E+02	≥ BIOFA(60,1)		
TF	≥ Th-229+D	, crustacea and mollusks	≥ 5.000E+02	≥ 5.000E+02	≥ BIOFA(60,2)		
TF	≥		≥	≥	≥		
TF	≥ Th-230	, fish	≥ 1.000E+02	≥ 1.000E+02	≥ BIOFA(61,1)		

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File : INDUSTRIAL NO CAP BASE.ROF

$\emptyset$	$\geq$		$\geq$	User	$\geq$		$\geq$	RESRAD	$\geq$	
Parameter										
Menu	$\geq$	Parameter	$\geq$	Input	$\geq$	Default	$\geq$	computed	$\geq$	Name

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FSTI ≥ Exposure duration	≥ 3.000E+01	≥ 3.000E+01	≥	---	≥ ED
FSTI ≥ Basic radiation dose limit (mrem/yr)	≥ 1.500E+01	≥ 2.500E+01	≥	---	≥ BRDL
≥	≥	≥	≥		≥
CONC ≥ Initial principal radionuclide (pCi/g): Ac-227	≥ 2.340E+00	≥ 0.000E+00	≥	---	≥ S1(1)
CONC ≥ Initial principal radionuclide (pCi/g): Al-26	≥ 7.640E+02	≥ 0.000E+00	≥	---	≥ S1(2)
CONC ≥ Initial principal radionuclide (pCi/g): Am-241	≥ 1.410E+03	≥ 0.000E+00	≥	---	≥ S1(3)
CONC ≥ Initial principal radionuclide (pCi/g): Cf-249	≥ 3.240E-03	≥ 0.000E+00	≥	---	≥ S1(5)
CONC ≥ Initial principal radionuclide (pCi/g): Cf-251	≥ 1.340E-02	≥ 0.000E+00	≥	---	≥ S1(8)
CONC ≥ Initial principal radionuclide (pCi/g): Cf-252	≥ 1.510E-07	≥ 0.000E+00	≥	---	≥ S1(9)
CONC ≥ Initial principal radionuclide (pCi/g): Cl-36	≥ 2.790E-01	≥ 0.000E+00	≥	---	≥ S1(14)
CONC ≥ Initial principal radionuclide (pCi/g): Co-60	≥ 4.860E+00	≥ 0.000E+00	≥	---	≥ S1(22)
CONC ≥ Initial principal radionuclide (pCi/g): Cs-134	≥ 2.620E-06	≥ 0.000E+00	≥	---	≥ S1(23)
CONC ≥ Initial principal radionuclide (pCi/g): Cs-137	≥ 3.050E+03	≥ 0.000E+00	≥	---	≥ S1(24)
CONC ≥ Initial principal radionuclide (pCi/g): Eu-154	≥ 9.920E-03	≥ 0.000E+00	≥	---	≥ S1(25)
CONC ≥ Initial principal radionuclide (pCi/g): Eu-155	≥ 8.720E-03	≥ 0.000E+00	≥	---	≥ S1(26)
CONC ≥ Initial principal radionuclide (pCi/g): H-3	≥ 3.780E+04	≥ 0.000E+00	≥	---	≥ S1(27)
CONC ≥ Initial principal radionuclide (pCi/g): Ho-166m	≥ 5.020E-01	≥ 0.000E+00	≥	---	≥ S1(28)
CONC ≥ Initial principal radionuclide (pCi/g): Na-22	≥ 1.120E-03	≥ 0.000E+00	≥	---	≥ S1(29)
CONC ≥ Initial principal radionuclide (pCi/g): Np-237	≥ 1.620E-03	≥ 0.000E+00	≥	---	≥ S1(30)
CONC ≥ Initial principal radionuclide (pCi/g): Pb-210	≥ 2.850E+00	≥ 0.000E+00	≥	---	≥ S1(32)
CONC ≥ Initial principal radionuclide (pCi/g): Pm-147	≥ 1.370E-08	≥ 0.000E+00	≥	---	≥ S1(33)
CONC ≥ Initial principal radionuclide (pCi/g): Pu-238	≥ 1.470E+04	≥ 0.000E+00	≥	---	≥ S1(35)
CONC ≥ Initial principal radionuclide (pCi/g): Pu-239	≥ 9.250E+03	≥ 0.000E+00	≥	---	≥ S1(37)
CONC ≥ Initial principal radionuclide (pCi/g): Pu-240	≥ 2.380E+03	≥ 0.000E+00	≥	---	≥ S1(38)
CONC ≥ Initial principal radionuclide (pCi/g): Pu-241	≥ 3.820E+03	≥ 0.000E+00	≥	---	≥ S1(40)
CONC ≥ Initial principal radionuclide (pCi/g): Pu-242	≥ 2.520E-01	≥ 0.000E+00	≥	---	≥ S1(42)
CONC ≥ Initial principal radionuclide (pCi/g): Ra-226	≥ 3.850E+00	≥ 0.000E+00	≥	---	≥ S1(48)
CONC ≥ Initial principal radionuclide (pCi/g): Ra-228	≥ 4.190E+00	≥ 0.000E+00	≥	---	≥ S1(49)
CONC ≥ Initial principal radionuclide (pCi/g): Ru-106	≥ 7.770E-09	≥ 0.000E+00	≥	---	≥ S1(50)
CONC ≥ Initial principal radionuclide (pCi/g): Sb-125	≥ 5.400E-04	≥ 0.000E+00	≥	---	≥ S1(51)
CONC ≥ Initial principal radionuclide (pCi/g): Sm-151	≥ 2.110E-02	≥ 0.000E+00	≥	---	≥ S1(54)



CONC ≥ Initial principal radionuclide (pCi/g):	Sn-121m	≥ 5.020E-01	≥ 0.000E+00	≥ ---	≥ S1(55)
CONC ≥ Initial principal radionuclide (pCi/g):	Sn-126	≥ 1.220E-01	≥ 0.000E+00	≥ ---	≥ S1(56)
CONC ≥ Initial principal radionuclide (pCi/g):	Sr-90	≥ 4.300E+02	≥ 0.000E+00	≥ ---	≥ S1(57)
CONC ≥ Initial principal radionuclide (pCi/g):	Th-228	≥ 8.930E-03	≥ 0.000E+00	≥ ---	≥ S1(59)
CONC ≥ Initial principal radionuclide (pCi/g):	Th-230	≥ 8.370E+01	≥ 0.000E+00	≥ ---	≥ S1(61)
CONC ≥ Initial principal radionuclide (pCi/g):	Th-232	≥ 9.880E-03	≥ 0.000E+00	≥ ---	≥ S1(62)
CONC ≥ Initial principal radionuclide (pCi/g):	U-233	≥ 2.790E+00	≥ 0.000E+00	≥ ---	≥ S1(63)
CONC ≥ Initial principal radionuclide (pCi/g):	U-234	≥ 4.260E+01	≥ 0.000E+00	≥ ---	≥ S1(64)
CONC ≥ Initial principal radionuclide (pCi/g):	U-235	≥ 2.180E+02	≥ 0.000E+00	≥ ---	≥ S1(65)
CONC ≥ Initial principal radionuclide (pCi/g):	U-236	≥ 4.070E-01	≥ 0.000E+00	≥ ---	≥ S1(66)
CONC ≥ Initial principal radionuclide (pCi/g):	U-238	≥ 5.350E+01	≥ 0.000E+00	≥ ---	≥ S1(67)
≥		≥	≥	≥	≥
VDEP ≥ Deposition velocity for	Ac-227	≥ 1.000E-03	≥ 1.000E-03	≥ ---	≥ DEPVEL(1)
VDEP ≥ Deposition velocity for	Al-26	≥ 1.000E-03	≥ 1.000E-03	≥ ---	≥ DEPVEL(2)
VDEP ≥ Deposition velocity for	Am-241	≥ 1.000E-03	≥ 1.000E-03	≥ ---	≥ DEPVEL(3)
VDEP ≥ Deposition velocity for	Am-243	≥ 1.000E-03	≥ 1.000E-03	≥ ---	≥ DEPVEL(4)

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0	≥	≥ User	≥	≥ RESRAD	≥
Parameter					
Menu ≥	Parameter	≥ Input	≥ Default	≥ computed	≥ Name
fffff~	fffff~	fffff~	fffff~	fffff~	fffff~
fffff					
VDEP ≥ Deposition velocity for	Cf-249	≥ 1.000E-03	≥ 1.000E-03	≥ ---	≥ DEPVEL(5)
VDEP ≥ Deposition velocity for	Cf-251	≥ 1.000E-03	≥ 1.000E-03	≥ ---	≥ DEPVEL(8)
VDEP ≥ Deposition velocity for	Cf-252	≥ 1.000E-03	≥ 1.000E-03	≥ ---	≥ DEPVEL(9)
VDEP ≥ Deposition velocity for	Cl-36	≥ 1.000E-02	≥ 1.000E-02	≥ ---	≥ DEPVEL(14)
VDEP ≥ Deposition velocity for	Cm-245	≥ 1.000E-03	≥ 1.000E-03	≥ ---	≥ DEPVEL(15)

VDEP ≥ Deposition velocity for Cm-247	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(17)
VDEP ≥ Deposition velocity for Cm-248	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(18)
VDEP ≥ Deposition velocity for Co-60	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(22)
VDEP ≥ Deposition velocity for Cs-134	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(23)
VDEP ≥ Deposition velocity for Cs-137	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(24)
VDEP ≥ Deposition velocity for Eu-154	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(25)
VDEP ≥ Deposition velocity for Eu-155	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(26)
VDEP ≥ Deposition velocity for H-3	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(27)
VDEP ≥ Deposition velocity for Ho-166m	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(28)
VDEP ≥ Deposition velocity for Na-22	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(29)
VDEP ≥ Deposition velocity for Np-237	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(30)
VDEP ≥ Deposition velocity for Pa-231	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(31)
VDEP ≥ Deposition velocity for Pb-210	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(32)
VDEP ≥ Deposition velocity for Pm-147	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(33)
VDEP ≥ Deposition velocity for Po-210	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(34)
VDEP ≥ Deposition velocity for Pu-238	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(35)
VDEP ≥ Deposition velocity for Pu-239	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(37)
VDEP ≥ Deposition velocity for Pu-240	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(38)
VDEP ≥ Deposition velocity for Pu-241	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(40)
VDEP ≥ Deposition velocity for Pu-242	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(42)
VDEP ≥ Deposition velocity for Pu-244	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(45)
VDEP ≥ Deposition velocity for Ra-226	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(48)
VDEP ≥ Deposition velocity for Ra-228	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(49)
VDEP ≥ Deposition velocity for Ru-106	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(50)
VDEP ≥ Deposition velocity for Sb-125	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(51)
VDEP ≥ Deposition velocity for Sm-147	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(53)
VDEP ≥ Deposition velocity for Sm-151	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(54)
VDEP ≥ Deposition velocity for Sn-121m	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(55)
VDEP ≥ Deposition velocity for Sn-126	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(56)
VDEP ≥ Deposition velocity for Sr-90	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(57)
VDEP ≥ Deposition velocity for Te-125m	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(58)
VDEP ≥ Deposition velocity for Th-228	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(59)
VDEP ≥ Deposition velocity for Th-229	≥ 1.000E-03	≥ 1.000E-03	≥	---	≥ DEPVEL(60)

VDEP ≥ Deposition velocity for Th-230	≥ 1.000E-03	≥ 1.000E-03	≥ ---	≥ DEPVEL(61)
VDEP ≥ Deposition velocity for Th-232	≥ 1.000E-03	≥ 1.000E-03	≥ ---	≥ DEPVEL(62)
VDEP ≥ Deposition velocity for U-233	≥ 1.000E-03	≥ 1.000E-03	≥ ---	≥ DEPVEL(63)
VDEP ≥ Deposition velocity for U-234	≥ 1.000E-03	≥ 1.000E-03	≥ ---	≥ DEPVEL(64)
VDEP ≥ Deposition velocity for U-235	≥ 1.000E-03	≥ 1.000E-03	≥ ---	≥ DEPVEL(65)
VDEP ≥ Deposition velocity for U-236	≥ 1.000E-03	≥ 1.000E-03	≥ ---	≥ DEPVEL(66)
VDEP ≥ Deposition velocity for U-238	≥ 1.000E-03	≥ 1.000E-03	≥ ---	≥ DEPVEL(67)

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#### Site-Specific Parameter Summary (continued)

0	≥	≥ User	≥	≥ RESRAD	≥
Parameter					
Menu ≥	Parameter	≥ Input	≥ Default	≥ computed	≥ Name
~~~~~					
DCLR ≥ Distribution coefficients for Ac-227		≥	≥	≥	≥
DCLR ≥ Contaminated zone (cm**3/g)		≥ 1.300E+02	≥ 2.000E+01	≥ ---	≥ DCNUCC(1)
DCLR ≥ Unsaturated zone 1 (cm**3/g)		≥ 1.300E+02	≥ 2.000E+01	≥ ---	≥
DCNUCU(1,1)					
DCLR ≥ Unsaturated zone 2 (cm**3/g)		≥ 1.300E+02	≥ 2.000E+01	≥ ---	≥
DCNUCU(1,2)					
DCLR ≥ Unsaturated zone 3 (cm**3/g)		≥ 1.300E+02	≥ 2.000E+01	≥ ---	≥
DCNUCU(1,3)					
DCLR ≥ Unsaturated zone 4 (cm**3/g)		≥ 0.000E+00	≥ 2.000E+01	≥ ---	≥
DCNUCU(1,4)					
DCLR ≥ Saturated zone (cm**3/g)		≥ 0.000E+00	≥ 2.000E+01	≥ ---	≥ DCNUCS(1)
DCLR ≥ Sediment in surface water body (cm**3/g)		≥ 1.300E+02	≥ 2.000E+01	≥ ---	≥
DCNUCSWB(1)					
DCLR ≥ Agricultural area 1 (cm**3/g)		≥ 1.300E+02	≥ 2.000E+01	≥ ---	≥

DCNUCOF(1,1)					
DCLR ≥ Agricultural area 2 (cm**3/g)	≥ 1.300E+02	≥ 2.000E+01	≥ ---	≥	
DCNUCOF(1,2)					
DCLR ≥ Agricultural area 3 (cm**3/g)	≥ 1.300E+02	≥ 2.000E+01	≥ ---	≥	
DCNUCOF(1,3)					
DCLR ≥ Agricultural area 4 (cm**3/g)	≥ 1.300E+02	≥ 2.000E+01	≥ ---	≥	
DCNUCOF(1,4)					
DCLR ≥ Offsite Dwelling (cm**3/g)	≥ 1.300E+02	≥ 2.000E+01	≥ ---	≥	
DCNUCDWE(1)					
DCLR ≥ Leach rate (/yr)	≥ 0.000E+00	≥ 0.000E+00	≥ 2.478E-08	≥ ALEACH(1)	
DCLR ≥ Solubility constant	≥ 0.000E+00	≥ 0.000E+00	≥ not used	≥ SOLUB0(1)	
≥	≥	≥	≥	≥	
DCLR ≥ Distribution coefficients for Al-26	≥	≥	≥	≥	
DCLR ≥ Contaminated zone (cm**3/g)	≥ 1.300E+02	≥ 0.000E+00	≥ ---	≥ DCNUCC(2)	
DCLR ≥ Unsaturated zone 1 (cm**3/g)	≥ 1.300E+02	≥ 0.000E+00	≥ ---	≥	
DCNUCU(2,1)					
DCLR ≥ Unsaturated zone 2 (cm**3/g)	≥ 1.300E+02	≥ 0.000E+00	≥ ---	≥	
DCNUCU(2,2)					
DCLR ≥ Unsaturated zone 3 (cm**3/g)	≥ 1.300E+02	≥ 0.000E+00	≥ ---	≥	
DCNUCU(2,3)					
DCLR ≥ Unsaturated zone 4 (cm**3/g)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥	
DCNUCU(2,4)					
DCLR ≥ Saturated zone (cm**3/g)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥ DCNUCS(2)	
DCLR ≥ Sediment in surface water body (cm**3/g)	≥ 1.300E+02	≥ 0.000E+00	≥ ---	≥	
DCNUCSWB(2)					
DCLR ≥ Agricultural area 1 (cm**3/g)	≥ 1.300E+02	≥ 0.000E+00	≥ ---	≥	
DCNUCOF(2,1)					
DCLR ≥ Agricultural area 2 (cm**3/g)	≥ 1.300E+02	≥ 0.000E+00	≥ ---	≥	
DCNUCOF(2,2)					
DCLR ≥ Agricultural area 3 (cm**3/g)	≥ 1.300E+02	≥ 0.000E+00	≥ ---	≥	
DCNUCOF(2,3)					
DCLR ≥ Agricultural area 4 (cm**3/g)	≥ 1.300E+02	≥ 0.000E+00	≥ ---	≥	
DCNUCOF(2,4)					

DCLR ≥ Offsite Dwelling (cm**3/g)	≥ 1.300E+02	≥ 0.000E+00	≥ ---	≥
DCNUCDWE(2)				
DCLR ≥ Leach rate (/yr)	≥ 0.000E+00	≥ 0.000E+00	≥ 2.478E-08	≥ ALEACH(2)
DCLR ≥ Solubility constant	≥ 0.000E+00	≥ 0.000E+00	≥ not used	≥ SOLUB0(2)
≥	≥	≥	≥	≥
DCLR ≥ Distribution coefficients for Am-241	≥	≥	≥	≥
DCLR ≥ Contaminated zone (cm**3/g)	≥ 2.100E+03	≥ 2.000E+01	≥ ---	≥ DCNUCC(3)
DCLR ≥ Unsaturated zone 1 (cm**3/g)	≥ 2.400E+03	≥ 2.000E+01	≥ ---	≥
DCNUCU(3,1)				
DCLR ≥ Unsaturated zone 2 (cm**3/g)	≥ 2.400E+03	≥ 2.000E+01	≥ ---	≥
DCNUCU(3,2)				
DCLR ≥ Unsaturated zone 3 (cm**3/g)	≥ 2.400E+03	≥ 2.000E+01	≥ ---	≥
DCNUCU(3,3)				
DCLR ≥ Unsaturated zone 4 (cm**3/g)	≥ 0.000E+00	≥ 2.000E+01	≥ ---	≥
DCNUCU(3,4)				
DCLR ≥ Saturated zone (cm**3/g)	≥ 0.000E+00	≥ 2.000E+01	≥ ---	≥ DCNUCS(3)
DCLR ≥ Sediment in surface water body (cm**3/g)	≥ 2.100E+03	≥ 2.000E+01	≥ ---	≥
DCNUCSWB(3)				
DCLR ≥ Agricultural area 1 (cm**3/g)	≥ 2.100E+03	≥ 2.000E+01	≥ ---	≥
DCNUCOF(3,1)				
DCLR ≥ Agricultural area 2 (cm**3/g)	≥ 2.100E+03	≥ 2.000E+01	≥ ---	≥
DCNUCOF(3,2)				
DCLR ≥ Agricultural area 3 (cm**3/g)	≥ 2.100E+03	≥ 2.000E+01	≥ ---	≥
DCNUCOF(3,3)				
DCLR ≥ Agricultural area 4 (cm**3/g)	≥ 2.100E+03	≥ 2.000E+01	≥ ---	≥
DCNUCOF(3,4)				
DCLR ≥ Offsite Dwelling (cm**3/g)	≥ 2.100E+03	≥ 2.000E+01	≥ ---	≥
DCNUCDWE(3)				
DCLR ≥ Leach rate (/yr)	≥ 0.000E+00	≥ 0.000E+00	≥ 1.534E-09	≥ ALEACH(3)
DCLR ≥ Solubility constant	≥ 0.000E+00	≥ 0.000E+00	≥ not used	≥ SOLUB0(3)

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0	≥	≥	User	≥	RESRAD	≥				
Parameter										
Menu	≥	Parameter	≥	Input	≥	Default	≥	computed	≥	Name
fffff~	fffff	fffff	fffff	fffff	fffff	fffff	fffff	fffff	fffff	fffff
fffff										
DCLR	≥	Distribution coefficients for Cf-249	≥		≥		≥		≥	
DCLR	≥	Contaminated zone (cm**3/g)	≥	1.300E+02	≥	1.380E+03	≥	---	≥	DCNUCC(5)
DCLR	≥	Unsaturated zone 1 (cm**3/g)	≥	1.300E+02	≥	1.380E+03	≥	---	≥	
DCNUCU(5,1)										
DCLR	≥	Unsaturated zone 2 (cm**3/g)	≥	1.300E+02	≥	1.380E+03	≥	---	≥	
DCNUCU(5,2)										
DCLR	≥	Unsaturated zone 3 (cm**3/g)	≥	1.300E+02	≥	1.380E+03	≥	---	≥	
DCNUCU(5,3)										
DCLR	≥	Unsaturated zone 4 (cm**3/g)	≥	0.000E+00	≥	1.380E+03	≥	---	≥	
DCNUCU(5,4)										
DCLR	≥	Saturated zone (cm**3/g)	≥	0.000E+00	≥	1.380E+03	≥	---	≥	DCNUCS(5)
DCLR	≥	Sediment in surface water body (cm**3/g)	≥	1.300E+02	≥	1.380E+03	≥	---	≥	
DCNUCSWB(5)										
DCLR	≥	Agricultural area 1 (cm**3/g)	≥	1.300E+02	≥	1.380E+03	≥	---	≥	
DCNUCOF(5,1)										
DCLR	≥	Agricultural area 2 (cm**3/g)	≥	1.300E+02	≥	1.380E+03	≥	---	≥	
DCNUCOF(5,2)										
DCLR	≥	Agricultural area 3 (cm**3/g)	≥	1.300E+02	≥	1.380E+03	≥	---	≥	
DCNUCOF(5,3)										
DCLR	≥	Agricultural area 4 (cm**3/g)	≥	1.300E+02	≥	1.380E+03	≥	---	≥	
DCNUCOF(5,4)										
DCLR	≥	Offsite Dwelling (cm**3/g)	≥	1.300E+02	≥	1.380E+03	≥	---	≥	
DCNUCDWE(5)										
DCLR	≥	Leach rate (/yr)	≥	0.000E+00	≥	0.000E+00	≥	2.478E-08	≥	ALEACH(5)

DCLR ≥ Solubility constant	≥ 0.000E+00	≥ 0.000E+00	≥ not used	≥ SOLUB0(5)
≥	≥	≥	≥	≥
DCLR ≥ Distribution coefficients for Cf-251	≥	≥	≥	≥
DCLR ≥ Contaminated zone (cm**3/g)	≥ 1.300E+02	≥ 1.380E+03	≥ ---	≥ DCNUCC(8)
DCLR ≥ Unsaturated zone 1 (cm**3/g)	≥ 1.300E+02	≥ 1.380E+03	≥ ---	≥
DCNUCU(8,1)				
DCLR ≥ Unsaturated zone 2 (cm**3/g)	≥ 1.300E+02	≥ 1.380E+03	≥ ---	≥
DCNUCU(8,2)				
DCLR ≥ Unsaturated zone 3 (cm**3/g)	≥ 1.300E+02	≥ 1.380E+03	≥ ---	≥
DCNUCU(8,3)				
DCLR ≥ Unsaturated zone 4 (cm**3/g)	≥ 0.000E+00	≥ 1.380E+03	≥ ---	≥
DCNUCU(8,4)				
DCLR ≥ Saturated zone (cm**3/g)	≥ 0.000E+00	≥ 1.380E+03	≥ ---	≥ DCNUCS(8)
DCLR ≥ Sediment in surface water body (cm**3/g)	≥ 1.300E+02	≥ 1.380E+03	≥ ---	≥
DCNUCSWB(8)				
DCLR ≥ Agricultural area 1 (cm**3/g)	≥ 1.300E+02	≥ 1.380E+03	≥ ---	≥
DCNUCOF(8,1)				
DCLR ≥ Agricultural area 2 (cm**3/g)	≥ 1.300E+02	≥ 1.380E+03	≥ ---	≥
DCNUCOF(8,2)				
DCLR ≥ Agricultural area 3 (cm**3/g)	≥ 1.300E+02	≥ 1.380E+03	≥ ---	≥
DCNUCOF(8,3)				
DCLR ≥ Agricultural area 4 (cm**3/g)	≥ 1.300E+02	≥ 1.380E+03	≥ ---	≥
DCNUCOF(8,4)				
DCLR ≥ Offsite Dwelling (cm**3/g)	≥ 1.300E+02	≥ 1.380E+03	≥ ---	≥
DCNUCDWE(8)				
DCLR ≥ Leach rate (/yr)	≥ 0.000E+00	≥ 0.000E+00	≥ 2.478E-08	≥ ALEACH(8)
DCLR ≥ Solubility constant	≥ 0.000E+00	≥ 0.000E+00	≥ not used	≥ SOLUB0(8)
≥	≥	≥	≥	≥
DCLR ≥ Distribution coefficients for Cf-252	≥	≥	≥	≥
DCLR ≥ Contaminated zone (cm**3/g)	≥ 1.300E+02	≥ 1.380E+03	≥ ---	≥ DCNUCC(9)
DCLR ≥ Unsaturated zone 1 (cm**3/g)	≥ 1.300E+02	≥ 1.380E+03	≥ ---	≥
DCNUCU(9,1)				
DCLR ≥ Unsaturated zone 2 (cm**3/g)	≥ 1.300E+02	≥ 1.380E+03	≥ ---	≥

DCNUCU(9,2)					
DCLR ≥ Unsaturated zone 3 (cm**3/g)	≥ 1.300E+02	≥ 1.380E+03	≥ ---	≥	
DCNUCU(9,3)					
DCLR ≥ Unsaturated zone 4 (cm**3/g)	≥ 0.000E+00	≥ 1.380E+03	≥ ---	≥	
DCNUCU(9,4)					
DCLR ≥ Saturated zone (cm**3/g)	≥ 0.000E+00	≥ 1.380E+03	≥ ---	≥ DCNUCS(9)	
DCLR ≥ Sediment in surface water body (cm**3/g)	≥ 1.300E+02	≥ 1.380E+03	≥ ---	≥	
DCNUCSWB(9)					
DCLR ≥ Agricultural area 1 (cm**3/g)	≥ 1.300E+02	≥ 1.380E+03	≥ ---	≥	
DCNUCOF(9,1)					
DCLR ≥ Agricultural area 2 (cm**3/g)	≥ 1.300E+02	≥ 1.380E+03	≥ ---	≥	
DCNUCOF(9,2)					
DCLR ≥ Agricultural area 3 (cm**3/g)	≥ 1.300E+02	≥ 1.380E+03	≥ ---	≥	
DCNUCOF(9,3)					
DCLR ≥ Agricultural area 4 (cm**3/g)	≥ 1.300E+02	≥ 1.380E+03	≥ ---	≥	
DCNUCOF(9,4)					
DCLR ≥ Offsite Dwelling (cm**3/g)	≥ 1.300E+02	≥ 1.380E+03	≥ ---	≥	
DCNUCDWE(9)					
DCLR ≥ Leach rate (/yr)	≥ 0.000E+00	≥ 0.000E+00	≥ 2.478E-08	≥ ALEACH(9)	
DCLR ≥ Solubility constant	≥ 0.000E+00	≥ 0.000E+00	≥ not used	≥ SOLUB0(9)	

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Site-Specific Parameter Summary (continued)

0	≥		≥ User	≥	≥ RESRAD	≥
Parameter						
Menu ≥	Parameter		≥ Input	≥ Default	≥ computed	≥ Name
fffff~ff~ffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff						
fffff						
DCLR ≥ Distribution coefficients for Cl-36			≥	≥	≥	≥

DCLR ≥ Contaminated zone (cm**3/g)	≥ 0.000E+00 ≥ 1.000E-01 ≥ --- ≥ DCNUCC(14)
DCLR ≥ Unsaturated zone 1 (cm**3/g)	≥ 0.000E+00 ≥ 1.000E-01 ≥ --- ≥
DCNUCU(14,1)	
DCLR ≥ Unsaturated zone 2 (cm**3/g)	≥ 0.000E+00 ≥ 1.000E-01 ≥ --- ≥
DCNUCU(14,2)	
DCLR ≥ Unsaturated zone 3 (cm**3/g)	≥ 0.000E+00 ≥ 1.000E-01 ≥ --- ≥
DCNUCU(14,3)	
DCLR ≥ Unsaturated zone 4 (cm**3/g)	≥ 0.000E+00 ≥ 1.000E-01 ≥ --- ≥
DCNUCU(14,4)	
DCLR ≥ Saturated zone (cm**3/g)	≥ 0.000E+00 ≥ 1.000E-01 ≥ --- ≥ DCNUCS(14)
DCLR ≥ Sediment in surface water body (cm**3/g)	≥ 0.000E+00 ≥ 1.000E-01 ≥ --- ≥
DCNUCSWB(14)	
DCLR ≥ Agricultural area 1 (cm**3/g)	≥ 0.000E+00 ≥ 1.000E-01 ≥ --- ≥
DCNUCOF(14,1)	
DCLR ≥ Agricultural area 2 (cm**3/g)	≥ 0.000E+00 ≥ 1.000E-01 ≥ --- ≥
DCNUCOF(14,2)	
DCLR ≥ Agricultural area 3 (cm**3/g)	≥ 0.000E+00 ≥ 1.000E-01 ≥ --- ≥
DCNUCOF(14,3)	
DCLR ≥ Agricultural area 4 (cm**3/g)	≥ 0.000E+00 ≥ 1.000E-01 ≥ --- ≥
DCNUCOF(14,4)	
DCLR ≥ Offsite Dwelling (cm**3/g)	≥ 0.000E+00 ≥ 1.000E-01 ≥ --- ≥
DCNUCDWE(14)	
DCLR ≥ Leach rate (/yr)	≥ 0.000E+00 ≥ 0.000E+00 ≥ 1.588E-04 ≥ ALEACH(14)
DCLR ≥ Solubility constant	≥ 0.000E+00 ≥ 0.000E+00 ≥ not used ≥ SOLUB0(14)
≥	≥ ≥ ≥ ≥
DCLR ≥ Distribution coefficients for Co-60	≥ ≥ ≥ ≥
DCLR ≥ Contaminated zone (cm**3/g)	≥ 4.500E-01 ≥ 1.000E+03 ≥ --- ≥ DCNUCC(22)
DCLR ≥ Unsaturated zone 1 (cm**3/g)	≥ 4.500E-01 ≥ 1.000E+03 ≥ --- ≥
DCNUCU(22,1)	
DCLR ≥ Unsaturated zone 2 (cm**3/g)	≥ 4.500E-01 ≥ 1.000E+03 ≥ --- ≥
DCNUCU(22,2)	
DCLR ≥ Unsaturated zone 3 (cm**3/g)	≥ 4.500E-01 ≥ 1.000E+03 ≥ --- ≥
DCNUCU(22,3)	

DCLR ≥ Unsaturated zone 4 (cm**3/g)	≥ 0.000E+00	≥ 1.000E+03	≥ ---	≥
DCNUCU(22,4)				
DCLR ≥ Saturated zone (cm**3/g)	≥ 0.000E+00	≥ 1.000E+03	≥ ---	≥ DCNUCS(22)
DCLR ≥ Sediment in surface water body (cm**3/g)	≥ 4.500E-01	≥ 1.000E+03	≥ ---	≥
DCNUCSWB(22)				
DCLR ≥ Agricultural area 1 (cm**3/g)	≥ 4.500E-01	≥ 1.000E+03	≥ ---	≥
DCNUCOF(22,1)				
DCLR ≥ Agricultural area 2 (cm**3/g)	≥ 4.500E-01	≥ 1.000E+03	≥ ---	≥
DCNUCOF(22,2)				
DCLR ≥ Agricultural area 3 (cm**3/g)	≥ 4.500E-01	≥ 1.000E+03	≥ ---	≥
DCNUCOF(22,3)				
DCLR ≥ Agricultural area 4 (cm**3/g)	≥ 4.500E-01	≥ 1.000E+03	≥ ---	≥
DCNUCOF(22,4)				
DCLR ≥ Offsite Dwelling (cm**3/g)	≥ 4.500E-01	≥ 1.000E+03	≥ ---	≥
DCNUCDWE(22)				
DCLR ≥ Leach rate (/yr)	≥ 0.000E+00	≥ 0.000E+00	≥ 6.850E-06	≥ ALEACH(22)
DCLR ≥ Solubility constant	≥ 0.000E+00	≥ 0.000E+00	≥ not used	≥ SOLUB0(22)
≥	≥	≥		≥
DCLR ≥ Distribution coefficients for Cs-134	≥	≥	≥	≥
DCLR ≥ Contaminated zone (cm**3/g)	≥ 1.500E+01	≥ 4.600E+03	≥ ---	≥ DCNUCC(23)
DCLR ≥ Unsaturated zone 1 (cm**3/g)	≥ 1.500E+01	≥ 4.600E+03	≥ ---	≥
DCNUCU(23,1)				
DCLR ≥ Unsaturated zone 2 (cm**3/g)	≥ 1.500E+01	≥ 4.600E+03	≥ ---	≥
DCNUCU(23,2)				
DCLR ≥ Unsaturated zone 3 (cm**3/g)	≥ 1.500E+01	≥ 4.600E+03	≥ ---	≥
DCNUCU(23,3)				
DCLR ≥ Unsaturated zone 4 (cm**3/g)	≥ 0.000E+00	≥ 4.600E+03	≥ ---	≥
DCNUCU(23,4)				
DCLR ≥ Saturated zone (cm**3/g)	≥ 0.000E+00	≥ 4.600E+03	≥ ---	≥ DCNUCS(23)
DCLR ≥ Sediment in surface water body (cm**3/g)	≥ 1.500E+01	≥ 4.600E+03	≥ ---	≥
DCNUCSWB(23)				
DCLR ≥ Agricultural area 1 (cm**3/g)	≥ 1.500E+01	≥ 4.600E+03	≥ ---	≥
DCNUCOF(23,1)				

DCLR ≥ Agricultural area 2 (cm**3/g)	≥ 1.500E+01 ≥ 4.600E+03 ≥ --- ≥
DCNUCOF(23,2)	
DCLR ≥ Agricultural area 3 (cm**3/g)	≥ 1.500E+01 ≥ 4.600E+03 ≥ --- ≥
DCNUCOF(23,3)	
DCLR ≥ Agricultural area 4 (cm**3/g)	≥ 1.500E+01 ≥ 4.600E+03 ≥ --- ≥
DCNUCOF(23,4)	
DCLR ≥ Offsite Dwelling (cm**3/g)	≥ 1.500E+01 ≥ 4.600E+03 ≥ --- ≥
DCNUCDWE(23)	
DCLR ≥ Leach rate (/yr)	≥ 0.000E+00 ≥ 0.000E+00 ≥ 2.145E-07 ≥ ALEACH(23)
DCLR ≥ Solubility constant	≥ 0.000E+00 ≥ 0.000E+00 ≥ not used ≥ SOLUB0(23)

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

Site-Specific Parameter Summary (continued)

0 ≥	≥ User ≥	≥ RESRAD ≥
Parameter		
Menu ≥	Parameter	≥ Input ≥ Default ≥ computed ≥ Name

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|                                             |             |             |       |              |
|---------------------------------------------|-------------|-------------|-------|--------------|
| DCLR ≥ Distribution coefficients for Cs-137 | ≥           | ≥           | ≥     | ≥            |
| DCLR ≥ Contaminated zone (cm**3/g)          | ≥ 1.500E+01 | ≥ 4.600E+03 | ≥ --- | ≥ DCNUCC(24) |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)         | ≥ 1.500E+01 | ≥ 4.600E+03 | ≥ --- | ≥            |
| DCNUCU(24,1)                                |             |             |       |              |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)         | ≥ 1.500E+01 | ≥ 4.600E+03 | ≥ --- | ≥            |
| DCNUCU(24,2)                                |             |             |       |              |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)         | ≥ 1.500E+01 | ≥ 4.600E+03 | ≥ --- | ≥            |
| DCNUCU(24,3)                                |             |             |       |              |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)         | ≥ 0.000E+00 | ≥ 4.600E+03 | ≥ --- | ≥            |
| DCNUCU(24,4)                                |             |             |       |              |
| DCLR ≥ Saturated zone (cm**3/g)             | ≥ 0.000E+00 | ≥ 4.600E+03 | ≥ --- | ≥ DCNUCS(24) |

|                                                                 |                                     |              |              |
|-----------------------------------------------------------------|-------------------------------------|--------------|--------------|
| DCLR ≥ Sediment in surface water body (cm**3/g)<br>DCNUCSWB(24) | ≥ 1.500E+01 ≥ 4.600E+03 ≥           | ---          | ≥            |
| DCLR ≥ Agricultural area 1 (cm**3/g)<br>DCNUCOF(24,1)           | ≥ 1.500E+01 ≥ 4.600E+03 ≥           | ---          | ≥            |
| DCLR ≥ Agricultural area 2 (cm**3/g)<br>DCNUCOF(24,2)           | ≥ 1.500E+01 ≥ 4.600E+03 ≥           | ---          | ≥            |
| DCLR ≥ Agricultural area 3 (cm**3/g)<br>DCNUCOF(24,3)           | ≥ 1.500E+01 ≥ 4.600E+03 ≥           | ---          | ≥            |
| DCLR ≥ Agricultural area 4 (cm**3/g)<br>DCNUCOF(24,4)           | ≥ 1.500E+01 ≥ 4.600E+03 ≥           | ---          | ≥            |
| DCLR ≥ Offsite Dwelling (cm**3/g)<br>DCNUCDWE(24)               | ≥ 1.500E+01 ≥ 4.600E+03 ≥           | ---          | ≥            |
| DCLR ≥ Leach rate (/yr)                                         | ≥ 0.000E+00 ≥ 0.000E+00 ≥ 2.145E-07 | ≥ ALEACH(24) |              |
| DCLR ≥ Solubility constant<br>≥                                 | ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used  | ≥ SOLUB0(24) |              |
| DCLR ≥ Distribution coefficients for Eu-154                     | ≥                                   | ≥            | ≥            |
| DCLR ≥ Contaminated zone (cm**3/g)                              | ≥ 5.000E+01 ≥ 8.250E+02 ≥           | ---          | ≥ DCNUCC(25) |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)<br>DCNUCU(25,1)             | ≥ 5.000E+01 ≥ 8.250E+02 ≥           | ---          | ≥            |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)<br>DCNUCU(25,2)             | ≥ 5.000E+01 ≥ 8.250E+02 ≥           | ---          | ≥            |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)<br>DCNUCU(25,3)             | ≥ 5.000E+01 ≥ 8.250E+02 ≥           | ---          | ≥            |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)<br>DCNUCU(25,4)             | ≥ 0.000E+00 ≥ 8.250E+02 ≥           | ---          | ≥            |
| DCLR ≥ Saturated zone (cm**3/g)                                 | ≥ 0.000E+00 ≥ 8.250E+02 ≥           | ---          | ≥ DCNUCS(25) |
| DCLR ≥ Sediment in surface water body (cm**3/g)<br>DCNUCSWB(25) | ≥ 5.000E+01 ≥ 8.250E+02 ≥           | ---          | ≥            |
| DCLR ≥ Agricultural area 1 (cm**3/g)<br>DCNUCOF(25,1)           | ≥ 5.000E+01 ≥ 8.250E+02 ≥           | ---          | ≥            |
| DCLR ≥ Agricultural area 2 (cm**3/g)<br>DCNUCOF(25,2)           | ≥ 5.000E+01 ≥ 8.250E+02 ≥           | ---          | ≥            |
| DCLR ≥ Agricultural area 3 (cm**3/g)                            | ≥ 5.000E+01 ≥ 8.250E+02 ≥           | ---          | ≥            |

|                                                 |             |             |             |              |  |
|-------------------------------------------------|-------------|-------------|-------------|--------------|--|
| DCNUCOF(25,3)                                   |             |             |             |              |  |
| DCLR ≥ Agricultural area 4 (cm**3/g)            | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥            |  |
| DCNUCOF(25,4)                                   |             |             |             |              |  |
| DCLR ≥ Offsite Dwelling (cm**3/g)               | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥            |  |
| DCNUCDWE(25)                                    |             |             |             |              |  |
| DCLR ≥ Leach rate (/yr)                         | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 6.440E-08 | ≥ ALEACH(25) |  |
| DCLR ≥ Solubility constant                      | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(25) |  |
| ≥                                               | ≥           | ≥           | ≥           | ≥            |  |
| DCLR ≥ Distribution coefficients for Eu-155     | ≥           | ≥           | ≥           | ≥            |  |
| DCLR ≥ Contaminated zone (cm**3/g)              | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥ DCNUCC(26) |  |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)             | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥            |  |
| DCNUCU(26,1)                                    |             |             |             |              |  |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)             | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥            |  |
| DCNUCU(26,2)                                    |             |             |             |              |  |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)             | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥            |  |
| DCNUCU(26,3)                                    |             |             |             |              |  |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)             | ≥ 0.000E+00 | ≥ 8.250E+02 | ≥ ---       | ≥            |  |
| DCNUCU(26,4)                                    |             |             |             |              |  |
| DCLR ≥ Saturated zone (cm**3/g)                 | ≥ 0.000E+00 | ≥ 8.250E+02 | ≥ ---       | ≥ DCNUCS(26) |  |
| DCLR ≥ Sediment in surface water body (cm**3/g) | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥            |  |
| DCNUCSWB(26)                                    |             |             |             |              |  |
| DCLR ≥ Agricultural area 1 (cm**3/g)            | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥            |  |
| DCNUCOF(26,1)                                   |             |             |             |              |  |
| DCLR ≥ Agricultural area 2 (cm**3/g)            | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥            |  |
| DCNUCOF(26,2)                                   |             |             |             |              |  |
| DCLR ≥ Agricultural area 3 (cm**3/g)            | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥            |  |
| DCNUCOF(26,3)                                   |             |             |             |              |  |
| DCLR ≥ Agricultural area 4 (cm**3/g)            | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥            |  |
| DCNUCOF(26,4)                                   |             |             |             |              |  |
| DCLR ≥ Offsite Dwelling (cm**3/g)               | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥            |  |
| DCNUCDWE(26)                                    |             |             |             |              |  |
| DCLR ≥ Leach rate (/yr)                         | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 6.440E-08 | ≥ ALEACH(26) |  |
| DCLR ≥ Solubility constant                      | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(26) |  |

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## Site-Specific Parameter Summary (continued)

| 0             | ≥ | ≥                                        | User       | ≥          | ≥          | RESRAD     | ≥          |
|---------------|---|------------------------------------------|------------|------------|------------|------------|------------|
| Parameter     |   |                                          |            |            |            |            |            |
| Menu          | ≥ | Parameter                                | ≥          | Input      | ≥          | Default    | ≥          |
|               |   |                                          |            |            |            | computed   | ≥          |
|               |   |                                          |            |            |            |            | Name       |
| fffff         | ≈ | ffffffffff                               | ffffffffff | ffffffffff | ffffffffff | ffffffffff | ffffffffff |
| fffff         |   |                                          |            |            |            |            |            |
| DCLR          | ≥ | Distribution coefficients for H-3        | ≥          |            | ≥          |            | ≥          |
| DCLR          | ≥ | Contaminated zone (cm**3/g)              | ≥          | 0.000E+00  | ≥          | 0.000E+00  | ≥          |
| DCLR          | ≥ | Unsaturated zone 1 (cm**3/g)             | ≥          | 0.000E+00  | ≥          | 0.000E+00  | ≥          |
| DCNUCU(27,1)  |   |                                          |            |            |            |            |            |
| DCLR          | ≥ | Unsaturated zone 2 (cm**3/g)             | ≥          | 0.000E+00  | ≥          | 0.000E+00  | ≥          |
| DCNUCU(27,2)  |   |                                          |            |            |            |            |            |
| DCLR          | ≥ | Unsaturated zone 3 (cm**3/g)             | ≥          | 0.000E+00  | ≥          | 0.000E+00  | ≥          |
| DCNUCU(27,3)  |   |                                          |            |            |            |            |            |
| DCLR          | ≥ | Unsaturated zone 4 (cm**3/g)             | ≥          | 0.000E+00  | ≥          | 0.000E+00  | ≥          |
| DCNUCU(27,4)  |   |                                          |            |            |            |            |            |
| DCLR          | ≥ | Saturated zone (cm**3/g)                 | ≥          | 0.000E+00  | ≥          | 0.000E+00  | ≥          |
| DCLR          | ≥ | Sediment in surface water body (cm**3/g) | ≥          | 0.000E+00  | ≥          | 0.000E+00  | ≥          |
| DCNUCSWB(27)  |   |                                          |            |            |            |            |            |
| DCLR          | ≥ | Agricultural area 1 (cm**3/g)            | ≥          | 0.000E+00  | ≥          | 0.000E+00  | ≥          |
| DCNUCOF(27,1) |   |                                          |            |            |            |            |            |
| DCLR          | ≥ | Agricultural area 2 (cm**3/g)            | ≥          | 0.000E+00  | ≥          | 0.000E+00  | ≥          |
| DCNUCOF(27,2) |   |                                          |            |            |            |            |            |
| DCLR          | ≥ | Agricultural area 3 (cm**3/g)            | ≥          | 0.000E+00  | ≥          | 0.000E+00  | ≥          |
| DCNUCOF(27,3) |   |                                          |            |            |            |            |            |
| DCLR          | ≥ | Agricultural area 4 (cm**3/g)            | ≥          | 0.000E+00  | ≥          | 0.000E+00  | ≥          |
| DCNUCOF(27,4) |   |                                          |            |            |            |            |            |

|                                                 |             |             |             |              |
|-------------------------------------------------|-------------|-------------|-------------|--------------|
| DCLR ≥ Offsite Dwelling (cm**3/g)               | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥            |
| DCNUCDWE(27)                                    |             |             |             |              |
| DCLR ≥ Leach rate (/yr)                         | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 1.588E-04 | ≥ ALEACH(27) |
| DCLR ≥ Solubility constant                      | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(27) |
| ≥                                               | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Distribution coefficients for Ho-166m    | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Contaminated zone (cm**3/g)              | ≥ 2.500E+02 | ≥ 8.000E+02 | ≥ ---       | ≥ DCNUCC(28) |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)             | ≥ 2.500E+02 | ≥ 8.000E+02 | ≥ ---       | ≥            |
| DCNUCU(28,1)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)             | ≥ 2.500E+02 | ≥ 8.000E+02 | ≥ ---       | ≥            |
| DCNUCU(28,2)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)             | ≥ 2.500E+02 | ≥ 8.000E+02 | ≥ ---       | ≥            |
| DCNUCU(28,3)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)             | ≥ 0.000E+00 | ≥ 8.000E+02 | ≥ ---       | ≥            |
| DCNUCU(28,4)                                    |             |             |             |              |
| DCLR ≥ Saturated zone (cm**3/g)                 | ≥ 0.000E+00 | ≥ 8.000E+02 | ≥ ---       | ≥ DCNUCS(28) |
| DCLR ≥ Sediment in surface water body (cm**3/g) | ≥ 2.500E+02 | ≥ 8.000E+02 | ≥ ---       | ≥            |
| DCNUCSWB(28)                                    |             |             |             |              |
| DCLR ≥ Agricultural area 1 (cm**3/g)            | ≥ 2.500E+02 | ≥ 8.000E+02 | ≥ ---       | ≥            |
| DCNUCOF(28,1)                                   |             |             |             |              |
| DCLR ≥ Agricultural area 2 (cm**3/g)            | ≥ 2.500E+02 | ≥ 8.000E+02 | ≥ ---       | ≥            |
| DCNUCOF(28,2)                                   |             |             |             |              |
| DCLR ≥ Agricultural area 3 (cm**3/g)            | ≥ 2.500E+02 | ≥ 8.000E+02 | ≥ ---       | ≥            |
| DCNUCOF(28,3)                                   |             |             |             |              |
| DCLR ≥ Agricultural area 4 (cm**3/g)            | ≥ 2.500E+02 | ≥ 8.000E+02 | ≥ ---       | ≥            |
| DCNUCOF(28,4)                                   |             |             |             |              |
| DCLR ≥ Offsite Dwelling (cm**3/g)               | ≥ 2.500E+02 | ≥ 8.000E+02 | ≥ ---       | ≥            |
| DCNUCDWE(28)                                    |             |             |             |              |
| DCLR ≥ Leach rate (/yr)                         | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 1.288E-08 | ≥ ALEACH(28) |
| DCLR ≥ Solubility constant                      | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(28) |
| ≥                                               | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Distribution coefficients for Na-22      | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Contaminated zone (cm**3/g)              | ≥ 1.000E+01 | ≥ 1.000E+01 | ≥ ---       | ≥ DCNUCC(29) |

|                                                 |             |             |             |              |
|-------------------------------------------------|-------------|-------------|-------------|--------------|
| DCLR ≥ Unsaturated zone 1 (cm**3/g)             | ≥ 1.000E+01 | ≥ 1.000E+01 | ≥ ---       | ≥            |
| DCNUCU(29,1)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)             | ≥ 1.000E+01 | ≥ 1.000E+01 | ≥ ---       | ≥            |
| DCNUCU(29,2)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)             | ≥ 1.000E+01 | ≥ 1.000E+01 | ≥ ---       | ≥            |
| DCNUCU(29,3)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)             | ≥ 0.000E+00 | ≥ 1.000E+01 | ≥ ---       | ≥            |
| DCNUCU(29,4)                                    |             |             |             |              |
| DCLR ≥ Saturated zone (cm**3/g)                 | ≥ 0.000E+00 | ≥ 1.000E+01 | ≥ ---       | ≥ DCNUCS(29) |
| DCLR ≥ Sediment in surface water body (cm**3/g) | ≥ 1.000E+01 | ≥ 1.000E+01 | ≥ ---       | ≥            |
| DCNUCSWB(29)                                    |             |             |             |              |
| DCLR ≥ Agricultural area 1 (cm**3/g)            | ≥ 1.000E+01 | ≥ 1.000E+01 | ≥ ---       | ≥            |
| DCNUCOF(29,1)                                   |             |             |             |              |
| DCLR ≥ Agricultural area 2 (cm**3/g)            | ≥ 1.000E+01 | ≥ 1.000E+01 | ≥ ---       | ≥            |
| DCNUCOF(29,2)                                   |             |             |             |              |
| DCLR ≥ Agricultural area 3 (cm**3/g)            | ≥ 1.000E+01 | ≥ 1.000E+01 | ≥ ---       | ≥            |
| DCNUCOF(29,3)                                   |             |             |             |              |
| DCLR ≥ Agricultural area 4 (cm**3/g)            | ≥ 1.000E+01 | ≥ 1.000E+01 | ≥ ---       | ≥            |
| DCNUCOF(29,4)                                   |             |             |             |              |
| DCLR ≥ Offsite Dwelling (cm**3/g)               | ≥ 1.000E+01 | ≥ 1.000E+01 | ≥ ---       | ≥            |
| DCNUCDWE(29)                                    |             |             |             |              |
| DCLR ≥ Leach rate (/yr)                         | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 3.215E-07 | ≥ ALEACH(29) |
| DCLR ≥ Solubility constant                      | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(29) |

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## Site-Specific Parameter Summary (continued)

| 0         | ≥         | ≥ User  | ≥         | ≥ RESRAD   | ≥      |
|-----------|-----------|---------|-----------|------------|--------|
| Parameter |           |         |           |            |        |
| Menu ≥    | Parameter | ≥ Input | ≥ Default | ≥ computed | ≥ Name |



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 ffffff

|                                                 |             |             |             |              |
|-------------------------------------------------|-------------|-------------|-------------|--------------|
| DCLR ≥ Distribution coefficients for Np-237     | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Contaminated zone (cm**3/g)              | ≥ 7.500E+00 | ≥ 2.570E+02 | ≥ ---       | ≥ DCNUCC(30) |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)             | ≥ 2.200E+00 | ≥ 2.570E+02 | ≥ ---       | ≥            |
| DCNUCU(30,1)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)             | ≥ 2.200E+00 | ≥ 2.570E+02 | ≥ ---       | ≥            |
| DCNUCU(30,2)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)             | ≥ 2.200E+00 | ≥ 2.570E+02 | ≥ ---       | ≥            |
| DCNUCU(30,3)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)             | ≥ 0.000E+00 | ≥ 2.570E+02 | ≥ ---       | ≥            |
| DCNUCU(30,4)                                    |             |             |             |              |
| DCLR ≥ Saturated zone (cm**3/g)                 | ≥ 0.000E+00 | ≥ 2.570E+02 | ≥ ---       | ≥ DCNUCS(30) |
| DCLR ≥ Sediment in surface water body (cm**3/g) | ≥ 7.500E+00 | ≥ 2.570E+02 | ≥ ---       | ≥            |
| DCNUCSWB(30)                                    |             |             |             |              |
| DCLR ≥ Agricultural area 1 (cm**3/g)            | ≥ 7.500E+00 | ≥ 2.570E+02 | ≥ ---       | ≥            |
| DCNUCOF(30,1)                                   |             |             |             |              |
| DCLR ≥ Agricultural area 2 (cm**3/g)            | ≥ 7.500E+00 | ≥ 2.570E+02 | ≥ ---       | ≥            |
| DCNUCOF(30,2)                                   |             |             |             |              |
| DCLR ≥ Agricultural area 3 (cm**3/g)            | ≥ 7.500E+00 | ≥ 2.570E+02 | ≥ ---       | ≥            |
| DCNUCOF(30,3)                                   |             |             |             |              |
| DCLR ≥ Agricultural area 4 (cm**3/g)            | ≥ 7.500E+00 | ≥ 2.570E+02 | ≥ ---       | ≥            |
| DCNUCOF(30,4)                                   |             |             |             |              |
| DCLR ≥ Offsite Dwelling (cm**3/g)               | ≥ 7.500E+00 | ≥ 2.570E+02 | ≥ ---       | ≥            |
| DCNUCDWE(30)                                    |             |             |             |              |
| DCLR ≥ Leach rate (/yr)                         | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 4.284E-07 | ≥ ALEACH(30) |
| DCLR ≥ Solubility constant                      | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(30) |
| ≥                                               | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Distribution coefficients for Pb-210     | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Contaminated zone (cm**3/g)              | ≥ 2.500E+01 | ≥ 1.000E+02 | ≥ ---       | ≥ DCNUCC(32) |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)             | ≥ 2.500E+01 | ≥ 1.000E+02 | ≥ ---       | ≥            |
| DCNUCU(32,1)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)             | ≥ 2.500E+01 | ≥ 1.000E+02 | ≥ ---       | ≥            |

|                                                 |             |             |             |   |            |
|-------------------------------------------------|-------------|-------------|-------------|---|------------|
| DCNUCU(32,2)                                    |             |             |             |   |            |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)             | ≥ 2.500E+01 | ≥ 1.000E+02 | ≥ ---       | ≥ |            |
| DCNUCU(32,3)                                    |             |             |             |   |            |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)             | ≥ 0.000E+00 | ≥ 1.000E+02 | ≥ ---       | ≥ |            |
| DCNUCU(32,4)                                    |             |             |             |   |            |
| DCLR ≥ Saturated zone (cm**3/g)                 | ≥ 0.000E+00 | ≥ 1.000E+02 | ≥ ---       | ≥ | DCNUCS(32) |
| DCLR ≥ Sediment in surface water body (cm**3/g) | ≥ 2.500E+01 | ≥ 1.000E+02 | ≥ ---       | ≥ |            |
| DCNUCSWB(32)                                    |             |             |             |   |            |
| DCLR ≥ Agricultural area 1 (cm**3/g)            | ≥ 2.500E+01 | ≥ 1.000E+02 | ≥ ---       | ≥ |            |
| DCNUCOF(32,1)                                   |             |             |             |   |            |
| DCLR ≥ Agricultural area 2 (cm**3/g)            | ≥ 2.500E+01 | ≥ 1.000E+02 | ≥ ---       | ≥ |            |
| DCNUCOF(32,2)                                   |             |             |             |   |            |
| DCLR ≥ Agricultural area 3 (cm**3/g)            | ≥ 2.500E+01 | ≥ 1.000E+02 | ≥ ---       | ≥ |            |
| DCNUCOF(32,3)                                   |             |             |             |   |            |
| DCLR ≥ Agricultural area 4 (cm**3/g)            | ≥ 2.500E+01 | ≥ 1.000E+02 | ≥ ---       | ≥ |            |
| DCNUCOF(32,4)                                   |             |             |             |   |            |
| DCLR ≥ Offsite Dwelling (cm**3/g)               | ≥ 2.500E+01 | ≥ 1.000E+02 | ≥ ---       | ≥ |            |
| DCNUCDWE(32)                                    |             |             |             |   |            |
| DCLR ≥ Leach rate (/yr)                         | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 1.287E-07 | ≥ | ALEACH(32) |
| DCLR ≥ Solubility constant                      | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ | SOLUB0(32) |
| ≥                                               | ≥           | ≥           | ≥           | ≥ |            |
| DCLR ≥ Distribution coefficients for Pm-147     | ≥           | ≥           | ≥           | ≥ |            |
| DCLR ≥ Contaminated zone (cm**3/g)              | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥ | DCNUCC(33) |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)             | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥ |            |
| DCNUCU(33,1)                                    |             |             |             |   |            |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)             | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥ |            |
| DCNUCU(33,2)                                    |             |             |             |   |            |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)             | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥ |            |
| DCNUCU(33,3)                                    |             |             |             |   |            |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)             | ≥ 0.000E+00 | ≥ 8.250E+02 | ≥ ---       | ≥ |            |
| DCNUCU(33,4)                                    |             |             |             |   |            |
| DCLR ≥ Saturated zone (cm**3/g)                 | ≥ 0.000E+00 | ≥ 8.250E+02 | ≥ ---       | ≥ | DCNUCS(33) |
| DCLR ≥ Sediment in surface water body (cm**3/g) | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥ |            |

DCNUCSWB(33)

DCLR ≥ Agricultural area 1 (cm\*\*3/g) ≥ 5.000E+01 ≥ 8.250E+02 ≥ --- ≥

DCNUCOF(33,1)

DCLR ≥ Agricultural area 2 (cm\*\*3/g) ≥ 5.000E+01 ≥ 8.250E+02 ≥ --- ≥

DCNUCOF(33,2)

DCLR ≥ Agricultural area 3 (cm\*\*3/g) ≥ 5.000E+01 ≥ 8.250E+02 ≥ --- ≥

DCNUCOF(33,3)

DCLR ≥ Agricultural area 4 (cm\*\*3/g) ≥ 5.000E+01 ≥ 8.250E+02 ≥ --- ≥

DCNUCOF(33,4)

DCLR ≥ Offsite Dwelling (cm\*\*3/g) ≥ 5.000E+01 ≥ 8.250E+02 ≥ --- ≥

DCNUCDWE(33)

DCLR ≥ Leach rate (/yr) ≥ 0.000E+00 ≥ 0.000E+00 ≥ 6.440E-08 ≥ ALEACH(33)

DCLR ≥ Solubility constant ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used ≥ SOLUB0(33)

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## Site-Specific Parameter Summary (continued)

0 ≥ ≥ User ≥ RESRAD ≥

Parameter

Menu ≥ Parameter ≥ Input ≥ Default ≥ computed ≥ Name

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 fffff

DCLR ≥ Distribution coefficients for Pu-238 ≥ ≥ ≥ ≥

DCLR ≥ Contaminated zone (cm\*\*3/g) ≥ 7.100E+02 ≥ 2.000E+03 ≥ --- ≥ DCNUCC(35)

DCLR ≥ Unsaturated zone 1 (cm\*\*3/g) ≥ 4.100E+00 ≥ 2.000E+03 ≥ --- ≥

DCNUCU(35,1)

DCLR ≥ Unsaturated zone 2 (cm\*\*3/g) ≥ 4.100E+00 ≥ 2.000E+03 ≥ --- ≥

DCNUCU(35,2)

DCLR ≥ Unsaturated zone 3 (cm\*\*3/g) ≥ 4.100E+00 ≥ 2.000E+03 ≥ --- ≥

DCNUCU(35,3)

|                                                 |             |             |             |              |
|-------------------------------------------------|-------------|-------------|-------------|--------------|
| DCLR ≥ Unsaturated zone 4 (cm**3/g)             | ≥ 0.000E+00 | ≥ 2.000E+03 | ≥ ---       | ≥            |
| DCNUCU(35,4)                                    |             |             |             |              |
| DCLR ≥ Saturated zone (cm**3/g)                 | ≥ 0.000E+00 | ≥ 2.000E+03 | ≥ ---       | ≥ DCNUCS(35) |
| DCLR ≥ Sediment in surface water body (cm**3/g) | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥            |
| DCNUCSWB(35)                                    |             |             |             |              |
| DCLR ≥ Agricultural area 1 (cm**3/g)            | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥            |
| DCNUCOF(35,1)                                   |             |             |             |              |
| DCLR ≥ Agricultural area 2 (cm**3/g)            | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥            |
| DCNUCOF(35,2)                                   |             |             |             |              |
| DCLR ≥ Agricultural area 3 (cm**3/g)            | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥            |
| DCNUCOF(35,3)                                   |             |             |             |              |
| DCLR ≥ Agricultural area 4 (cm**3/g)            | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥            |
| DCNUCOF(35,4)                                   |             |             |             |              |
| DCLR ≥ Offsite Dwelling (cm**3/g)               | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥            |
| DCNUCDWE(35)                                    |             |             |             |              |
| DCLR ≥ Leach rate (/yr)                         | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 4.537E-09 | ≥ ALEACH(35) |
| DCLR ≥ Solubility constant                      | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(35) |
| ≥                                               | ≥           | ≥           |             | ≥            |
| DCLR ≥ Distribution coefficients for Pu-239     | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Contaminated zone (cm**3/g)              | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥ DCNUCC(37) |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)             | ≥ 4.100E+00 | ≥ 2.000E+03 | ≥ ---       | ≥            |
| DCNUCU(37,1)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)             | ≥ 4.100E+00 | ≥ 2.000E+03 | ≥ ---       | ≥            |
| DCNUCU(37,2)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)             | ≥ 4.100E+00 | ≥ 2.000E+03 | ≥ ---       | ≥            |
| DCNUCU(37,3)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)             | ≥ 0.000E+00 | ≥ 2.000E+03 | ≥ ---       | ≥            |
| DCNUCU(37,4)                                    |             |             |             |              |
| DCLR ≥ Saturated zone (cm**3/g)                 | ≥ 0.000E+00 | ≥ 2.000E+03 | ≥ ---       | ≥ DCNUCS(37) |
| DCLR ≥ Sediment in surface water body (cm**3/g) | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥            |
| DCNUCSWB(37)                                    |             |             |             |              |
| DCLR ≥ Agricultural area 1 (cm**3/g)            | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥            |
| DCNUCOF(37,1)                                   |             |             |             |              |

|                                                                 |                                                            |
|-----------------------------------------------------------------|------------------------------------------------------------|
| DCLR ≥ Agricultural area 2 (cm**3/g)<br>DCNUCOF(37,2)           | ≥ 7.100E+02 ≥ 2.000E+03 ≥ --- ≥                            |
| DCLR ≥ Agricultural area 3 (cm**3/g)<br>DCNUCOF(37,3)           | ≥ 7.100E+02 ≥ 2.000E+03 ≥ --- ≥                            |
| DCLR ≥ Agricultural area 4 (cm**3/g)<br>DCNUCOF(37,4)           | ≥ 7.100E+02 ≥ 2.000E+03 ≥ --- ≥                            |
| DCLR ≥ Offsite Dwelling (cm**3/g)<br>DCNUCDWE(37)               | ≥ 7.100E+02 ≥ 2.000E+03 ≥ --- ≥                            |
| DCLR ≥ Leach rate (/yr)                                         | ≥ 0.000E+00 ≥ 0.000E+00 ≥ 4.537E-09 ≥ ALEACH(37)           |
| DCLR ≥ Solubility constant<br>≥                                 | ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used ≥ SOLUB0(37)<br>≥ ≥ ≥ ≥ |
| DCLR ≥ Distribution coefficients for Pu-240                     | ≥ ≥ ≥ ≥                                                    |
| DCLR ≥ Contaminated zone (cm**3/g)                              | ≥ 7.100E+02 ≥ 2.000E+03 ≥ --- ≥ DCNUCC(38)                 |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)<br>DCNUCU(38,1)             | ≥ 4.100E+00 ≥ 2.000E+03 ≥ --- ≥                            |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)<br>DCNUCU(38,2)             | ≥ 4.100E+00 ≥ 2.000E+03 ≥ --- ≥                            |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)<br>DCNUCU(38,3)             | ≥ 4.100E+00 ≥ 2.000E+03 ≥ --- ≥                            |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)<br>DCNUCU(38,4)             | ≥ 0.000E+00 ≥ 2.000E+03 ≥ --- ≥                            |
| DCLR ≥ Saturated zone (cm**3/g)                                 | ≥ 0.000E+00 ≥ 2.000E+03 ≥ --- ≥ DCNUCS(38)                 |
| DCLR ≥ Sediment in surface water body (cm**3/g)<br>DCNUCSWB(38) | ≥ 7.100E+02 ≥ 2.000E+03 ≥ --- ≥                            |
| DCLR ≥ Agricultural area 1 (cm**3/g)<br>DCNUCOF(38,1)           | ≥ 7.100E+02 ≥ 2.000E+03 ≥ --- ≥                            |
| DCLR ≥ Agricultural area 2 (cm**3/g)<br>DCNUCOF(38,2)           | ≥ 7.100E+02 ≥ 2.000E+03 ≥ --- ≥                            |
| DCLR ≥ Agricultural area 3 (cm**3/g)<br>DCNUCOF(38,3)           | ≥ 7.100E+02 ≥ 2.000E+03 ≥ --- ≥                            |
| DCLR ≥ Agricultural area 4 (cm**3/g)<br>DCNUCOF(38,4)           | ≥ 7.100E+02 ≥ 2.000E+03 ≥ --- ≥                            |
| DCLR ≥ Offsite Dwelling (cm**3/g)                               | ≥ 7.100E+02 ≥ 2.000E+03 ≥ --- ≥                            |

DCNUCDWE(38)

DCLR ≥ Leach rate (/yr) ≥ 0.000E+00 ≥ 0.000E+00 ≥ 4.537E-09 ≥ ALEACH(38)  
 DCLR ≥ Solubility constant ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used ≥ SOLUB0(38)  
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## Site-Specific Parameter Summary (continued)

| 0 ≥<br>Parameter<br>Menu ≥ | Parameter                                       | ≥ User      | ≥           | ≥ RESRAD | ≥ | Name       |
|----------------------------|-------------------------------------------------|-------------|-------------|----------|---|------------|
| fffff~ffffffffff           | DCLR ≥ Distribution coefficients for Pu-241     | ≥           | ≥           | ≥        | ≥ |            |
| fffff                      | DCLR ≥ Contaminated zone (cm**3/g)              | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---    | ≥ | DCNUCC(40) |
|                            | DCLR ≥ Unsaturated zone 1 (cm**3/g)             | ≥ 4.100E+00 | ≥ 2.000E+03 | ≥ ---    | ≥ |            |
| DCNUCU(40,1)               | DCLR ≥ Unsaturated zone 2 (cm**3/g)             | ≥ 4.100E+00 | ≥ 2.000E+03 | ≥ ---    | ≥ |            |
| DCNUCU(40,2)               | DCLR ≥ Unsaturated zone 3 (cm**3/g)             | ≥ 4.100E+00 | ≥ 2.000E+03 | ≥ ---    | ≥ |            |
| DCNUCU(40,3)               | DCLR ≥ Unsaturated zone 4 (cm**3/g)             | ≥ 0.000E+00 | ≥ 2.000E+03 | ≥ ---    | ≥ |            |
| DCNUCU(40,4)               | DCLR ≥ Saturated zone (cm**3/g)                 | ≥ 0.000E+00 | ≥ 2.000E+03 | ≥ ---    | ≥ | DCNUCS(40) |
|                            | DCLR ≥ Sediment in surface water body (cm**3/g) | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---    | ≥ |            |
| DCNUCSWB(40)               | DCLR ≥ Agricultural area 1 (cm**3/g)            | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---    | ≥ |            |
| DCNUCOF(40,1)              | DCLR ≥ Agricultural area 2 (cm**3/g)            | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---    | ≥ |            |
| DCNUCOF(40,2)              | DCLR ≥ Agricultural area 3 (cm**3/g)            | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---    | ≥ |            |

|                                                 |             |             |             |              |  |
|-------------------------------------------------|-------------|-------------|-------------|--------------|--|
| DCNUCOF(40,3)                                   |             |             |             |              |  |
| DCLR ≥ Agricultural area 4 (cm**3/g)            | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥            |  |
| DCNUCOF(40,4)                                   |             |             |             |              |  |
| DCLR ≥ Offsite Dwelling (cm**3/g)               | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥            |  |
| DCNUCDWE(40)                                    |             |             |             |              |  |
| DCLR ≥ Leach rate (/yr)                         | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 4.537E-09 | ≥ ALEACH(40) |  |
| DCLR ≥ Solubility constant                      | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(40) |  |
| ≥                                               | ≥           | ≥           | ≥           | ≥            |  |
| DCLR ≥ Distribution coefficients for Pu-242     | ≥           | ≥           | ≥           | ≥            |  |
| DCLR ≥ Contaminated zone (cm**3/g)              | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥ DCNUCC(42) |  |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)             | ≥ 4.100E+00 | ≥ 2.000E+03 | ≥ ---       | ≥            |  |
| DCNUCU(42,1)                                    |             |             |             |              |  |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)             | ≥ 4.100E+00 | ≥ 2.000E+03 | ≥ ---       | ≥            |  |
| DCNUCU(42,2)                                    |             |             |             |              |  |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)             | ≥ 4.100E+00 | ≥ 2.000E+03 | ≥ ---       | ≥            |  |
| DCNUCU(42,3)                                    |             |             |             |              |  |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)             | ≥ 0.000E+00 | ≥ 2.000E+03 | ≥ ---       | ≥            |  |
| DCNUCU(42,4)                                    |             |             |             |              |  |
| DCLR ≥ Saturated zone (cm**3/g)                 | ≥ 0.000E+00 | ≥ 2.000E+03 | ≥ ---       | ≥ DCNUCS(42) |  |
| DCLR ≥ Sediment in surface water body (cm**3/g) | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥            |  |
| DCNUCSWB(42)                                    |             |             |             |              |  |
| DCLR ≥ Agricultural area 1 (cm**3/g)            | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥            |  |
| DCNUCOF(42,1)                                   |             |             |             |              |  |
| DCLR ≥ Agricultural area 2 (cm**3/g)            | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥            |  |
| DCNUCOF(42,2)                                   |             |             |             |              |  |
| DCLR ≥ Agricultural area 3 (cm**3/g)            | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥            |  |
| DCNUCOF(42,3)                                   |             |             |             |              |  |
| DCLR ≥ Agricultural area 4 (cm**3/g)            | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥            |  |
| DCNUCOF(42,4)                                   |             |             |             |              |  |
| DCLR ≥ Offsite Dwelling (cm**3/g)               | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥            |  |
| DCNUCDWE(42)                                    |             |             |             |              |  |
| DCLR ≥ Leach rate (/yr)                         | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 4.537E-09 | ≥ ALEACH(42) |  |
| DCLR ≥ Solubility constant                      | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(42) |  |

|                                                 |             |             |             |              |
|-------------------------------------------------|-------------|-------------|-------------|--------------|
| ≥                                               | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Distribution coefficients for Ra-226     | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Contaminated zone (cm**3/g)              | ≥ 1.000E+03 | ≥ 7.000E+01 | ≥ ---       | ≥ DCNUCC(48) |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)             | ≥ 1.000E+03 | ≥ 7.000E+01 | ≥ ---       | ≥            |
| DCNUCU(48,1)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)             | ≥ 1.000E+03 | ≥ 7.000E+01 | ≥ ---       | ≥            |
| DCNUCU(48,2)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)             | ≥ 1.000E+03 | ≥ 7.000E+01 | ≥ ---       | ≥            |
| DCNUCU(48,3)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)             | ≥ 0.000E+00 | ≥ 7.000E+01 | ≥ ---       | ≥            |
| DCNUCU(48,4)                                    |             |             |             |              |
| DCLR ≥ Saturated zone (cm**3/g)                 | ≥ 0.000E+00 | ≥ 7.000E+01 | ≥ ---       | ≥ DCNUCS(48) |
| DCLR ≥ Sediment in surface water body (cm**3/g) | ≥ 1.000E+03 | ≥ 7.000E+01 | ≥ ---       | ≥            |
| DCNUCSWB(48)                                    |             |             |             |              |
| DCLR ≥ Agricultural area 1 (cm**3/g)            | ≥ 1.000E+03 | ≥ 7.000E+01 | ≥ ---       | ≥            |
| DCNUCOF(48,1)                                   |             |             |             |              |
| DCLR ≥ Agricultural area 2 (cm**3/g)            | ≥ 1.000E+03 | ≥ 7.000E+01 | ≥ ---       | ≥            |
| DCNUCOF(48,2)                                   |             |             |             |              |
| DCLR ≥ Agricultural area 3 (cm**3/g)            | ≥ 1.000E+03 | ≥ 7.000E+01 | ≥ ---       | ≥            |
| DCNUCOF(48,3)                                   |             |             |             |              |
| DCLR ≥ Agricultural area 4 (cm**3/g)            | ≥ 1.000E+03 | ≥ 7.000E+01 | ≥ ---       | ≥            |
| DCNUCOF(48,4)                                   |             |             |             |              |
| DCLR ≥ Offsite Dwelling (cm**3/g)               | ≥ 1.000E+03 | ≥ 7.000E+01 | ≥ ---       | ≥            |
| DCNUCDWE(48)                                    |             |             |             |              |
| DCLR ≥ Leach rate (/yr)                         | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 3.221E-09 | ≥ ALEACH(48) |
| DCLR ≥ Solubility constant                      | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(48) |
| 1RESRAD-OFFSITE, Version 2.6                    |             |             |             |              |
| Parent Dose Report                              |             |             |             |              |
| Title : Industrial No Cap Base                  |             |             |             |              |
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## Site-Specific Parameter Summary (continued)

|   |   |        |   |          |   |
|---|---|--------|---|----------|---|
| 0 | ≥ | ≥ User | ≥ | ≥ RESRAD | ≥ |
|---|---|--------|---|----------|---|



| Parameter<br>Menu ≥                                                                                        | Parameter                                | ≥ | Input     | ≥ | Default   | ≥ | computed  | ≥ | Name       |
|------------------------------------------------------------------------------------------------------------|------------------------------------------|---|-----------|---|-----------|---|-----------|---|------------|
| fffff~ffffffffffffffffffffffffffffffffffffffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff |                                          |   |           |   |           |   |           |   |            |
| fffff                                                                                                      |                                          |   |           |   |           |   |           |   |            |
| DCLR ≥                                                                                                     | Distribution coefficients for Ra-228     | ≥ |           | ≥ |           | ≥ |           | ≥ |            |
| DCLR ≥                                                                                                     | Contaminated zone (cm**3/g)              | ≥ | 1.000E+03 | ≥ | 7.000E+01 | ≥ | ---       | ≥ | DCNUCC(49) |
| DCLR ≥                                                                                                     | Unsaturated zone 1 (cm**3/g)             | ≥ | 1.000E+03 | ≥ | 7.000E+01 | ≥ | ---       | ≥ |            |
| DCNUCU(49,1)                                                                                               |                                          |   |           |   |           |   |           |   |            |
| DCLR ≥                                                                                                     | Unsaturated zone 2 (cm**3/g)             | ≥ | 1.000E+03 | ≥ | 7.000E+01 | ≥ | ---       | ≥ |            |
| DCNUCU(49,2)                                                                                               |                                          |   |           |   |           |   |           |   |            |
| DCLR ≥                                                                                                     | Unsaturated zone 3 (cm**3/g)             | ≥ | 1.000E+03 | ≥ | 7.000E+01 | ≥ | ---       | ≥ |            |
| DCNUCU(49,3)                                                                                               |                                          |   |           |   |           |   |           |   |            |
| DCLR ≥                                                                                                     | Unsaturated zone 4 (cm**3/g)             | ≥ | 0.000E+00 | ≥ | 7.000E+01 | ≥ | ---       | ≥ |            |
| DCNUCU(49,4)                                                                                               |                                          |   |           |   |           |   |           |   |            |
| DCLR ≥                                                                                                     | Saturated zone (cm**3/g)                 | ≥ | 0.000E+00 | ≥ | 7.000E+01 | ≥ | ---       | ≥ | DCNUCS(49) |
| DCLR ≥                                                                                                     | Sediment in surface water body (cm**3/g) | ≥ | 1.000E+03 | ≥ | 7.000E+01 | ≥ | ---       | ≥ |            |
| DCNUCSWB(49)                                                                                               |                                          |   |           |   |           |   |           |   |            |
| DCLR ≥                                                                                                     | Agricultural area 1 (cm**3/g)            | ≥ | 1.000E+03 | ≥ | 7.000E+01 | ≥ | ---       | ≥ |            |
| DCNUCOF(49,1)                                                                                              |                                          |   |           |   |           |   |           |   |            |
| DCLR ≥                                                                                                     | Agricultural area 2 (cm**3/g)            | ≥ | 1.000E+03 | ≥ | 7.000E+01 | ≥ | ---       | ≥ |            |
| DCNUCOF(49,2)                                                                                              |                                          |   |           |   |           |   |           |   |            |
| DCLR ≥                                                                                                     | Agricultural area 3 (cm**3/g)            | ≥ | 1.000E+03 | ≥ | 7.000E+01 | ≥ | ---       | ≥ |            |
| DCNUCOF(49,3)                                                                                              |                                          |   |           |   |           |   |           |   |            |
| DCLR ≥                                                                                                     | Agricultural area 4 (cm**3/g)            | ≥ | 1.000E+03 | ≥ | 7.000E+01 | ≥ | ---       | ≥ |            |
| DCNUCOF(49,4)                                                                                              |                                          |   |           |   |           |   |           |   |            |
| DCLR ≥                                                                                                     | Offsite Dwelling (cm**3/g)               | ≥ | 1.000E+03 | ≥ | 7.000E+01 | ≥ | ---       | ≥ |            |
| DCNUCDWE(49)                                                                                               |                                          |   |           |   |           |   |           |   |            |
| DCLR ≥                                                                                                     | Leach rate (/yr)                         | ≥ | 0.000E+00 | ≥ | 0.000E+00 | ≥ | 3.221E-09 | ≥ | ALEACH(49) |
| DCLR ≥                                                                                                     | Solubility constant                      | ≥ | 0.000E+00 | ≥ | 0.000E+00 | ≥ | not used  | ≥ | SOLUB0(49) |
| ≥                                                                                                          |                                          | ≥ |           | ≥ |           | ≥ |           | ≥ |            |
| DCLR ≥                                                                                                     | Distribution coefficients for Ru-106     | ≥ |           | ≥ |           | ≥ |           | ≥ |            |
| DCLR ≥                                                                                                     | Contaminated zone (cm**3/g)              | ≥ | 0.000E+00 | ≥ | 0.000E+00 | ≥ | ---       | ≥ | DCNUCC(50) |

|                                                 |             |             |             |              |
|-------------------------------------------------|-------------|-------------|-------------|--------------|
| DCLR ≥ Unsaturated zone 1 (cm**3/g)             | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥            |
| DCNUCU(50,1)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)             | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥            |
| DCNUCU(50,2)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)             | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥            |
| DCNUCU(50,3)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)             | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥            |
| DCNUCU(50,4)                                    |             |             |             |              |
| DCLR ≥ Saturated zone (cm**3/g)                 | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥ DCNUCS(50) |
| DCLR ≥ Sediment in surface water body (cm**3/g) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥            |
| DCNUCSWB(50)                                    |             |             |             |              |
| DCLR ≥ Agricultural area 1 (cm**3/g)            | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥            |
| DCNUCOF(50,1)                                   |             |             |             |              |
| DCLR ≥ Agricultural area 2 (cm**3/g)            | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥            |
| DCNUCOF(50,2)                                   |             |             |             |              |
| DCLR ≥ Agricultural area 3 (cm**3/g)            | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥            |
| DCNUCOF(50,3)                                   |             |             |             |              |
| DCLR ≥ Agricultural area 4 (cm**3/g)            | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥            |
| DCNUCOF(50,4)                                   |             |             |             |              |
| DCLR ≥ Offsite Dwelling (cm**3/g)               | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥            |
| DCNUCDWE(50)                                    |             |             |             |              |
| DCLR ≥ Leach rate (/yr)                         | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 1.588E-04 | ≥ ALEACH(50) |
| DCLR ≥ Solubility constant                      | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(50) |
| ≥                                               | ≥           | ≥           |             | ≥            |
| DCLR ≥ Distribution coefficients for Sb-125     | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Contaminated zone (cm**3/g)              | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥ DCNUCC(51) |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)             | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥            |
| DCNUCU(51,1)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)             | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥            |
| DCNUCU(51,2)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)             | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥            |
| DCNUCU(51,3)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)             | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥            |

|               |                                          |             |             |             |   |            |
|---------------|------------------------------------------|-------------|-------------|-------------|---|------------|
| DCNUCU(51,4)  |                                          |             |             |             |   |            |
| DCLR ≥        | Saturated zone (cm**3/g)                 | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥ | DCNUCS(51) |
| DCLR ≥        | Sediment in surface water body (cm**3/g) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥ |            |
| DCNUCSWB(51)  |                                          |             |             |             |   |            |
| DCLR ≥        | Agricultural area 1 (cm**3/g)            | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥ |            |
| DCNUCOF(51,1) |                                          |             |             |             |   |            |
| DCLR ≥        | Agricultural area 2 (cm**3/g)            | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥ |            |
| DCNUCOF(51,2) |                                          |             |             |             |   |            |
| DCLR ≥        | Agricultural area 3 (cm**3/g)            | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥ |            |
| DCNUCOF(51,3) |                                          |             |             |             |   |            |
| DCLR ≥        | Agricultural area 4 (cm**3/g)            | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥ |            |
| DCNUCOF(51,4) |                                          |             |             |             |   |            |
| DCLR ≥        | Offsite Dwelling (cm**3/g)               | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥ |            |
| DCNUCDWE(51)  |                                          |             |             |             |   |            |
| DCLR ≥        | Leach rate (/yr)                         | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 1.588E-04 | ≥ | ALEACH(51) |
| DCLR ≥        | Solubility constant                      | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ | SOLUB0(51) |

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

## Site-Specific Parameter Summary (continued)

|                                                                                                                                             |                                      |             |             |       |         |   |          |        |            |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------|-------------|-------|---------|---|----------|--------|------------|
| 0                                                                                                                                           | ≥                                    |             | ≥           | User  | ≥       |   | ≥        | RESRAD | ≥          |
| Parameter                                                                                                                                   |                                      |             |             |       |         |   |          |        |            |
| Menu ≥                                                                                                                                      | Parameter                            | ≥           | Input       | ≥     | Default | ≥ | computed | ≥      | Name       |
| fffff~ffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff<br>fffff |                                      |             |             |       |         |   |          |        |            |
| DCLR ≥                                                                                                                                      | Distribution coefficients for Sm-151 | ≥           |             | ≥     |         | ≥ |          | ≥      |            |
| DCLR ≥                                                                                                                                      | Contaminated zone (cm**3/g)          | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ --- | ≥       |   |          | ≥      | DCNUCC(54) |
| DCLR ≥                                                                                                                                      | Unsaturated zone 1 (cm**3/g)         | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ --- | ≥       |   |          | ≥      |            |
| DCNUCU(54,1)                                                                                                                                |                                      |             |             |       |         |   |          |        |            |
| DCLR ≥                                                                                                                                      | Unsaturated zone 2 (cm**3/g)         | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ --- | ≥       |   |          | ≥      |            |

|                                                 |             |             |             |   |            |
|-------------------------------------------------|-------------|-------------|-------------|---|------------|
| DCNUCU(54,2)                                    |             |             |             |   |            |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)             | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥ |            |
| DCNUCU(54,3)                                    |             |             |             |   |            |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)             | ≥ 0.000E+00 | ≥ 8.250E+02 | ≥ ---       | ≥ |            |
| DCNUCU(54,4)                                    |             |             |             |   |            |
| DCLR ≥ Saturated zone (cm**3/g)                 | ≥ 0.000E+00 | ≥ 8.250E+02 | ≥ ---       | ≥ | DCNUCS(54) |
| DCLR ≥ Sediment in surface water body (cm**3/g) | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥ |            |
| DCNUCSWB(54)                                    |             |             |             |   |            |
| DCLR ≥ Agricultural area 1 (cm**3/g)            | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥ |            |
| DCNUCOF(54,1)                                   |             |             |             |   |            |
| DCLR ≥ Agricultural area 2 (cm**3/g)            | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥ |            |
| DCNUCOF(54,2)                                   |             |             |             |   |            |
| DCLR ≥ Agricultural area 3 (cm**3/g)            | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥ |            |
| DCNUCOF(54,3)                                   |             |             |             |   |            |
| DCLR ≥ Agricultural area 4 (cm**3/g)            | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥ |            |
| DCNUCOF(54,4)                                   |             |             |             |   |            |
| DCLR ≥ Offsite Dwelling (cm**3/g)               | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥ |            |
| DCNUCDWE(54)                                    |             |             |             |   |            |
| DCLR ≥ Leach rate (/yr)                         | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 6.440E-08 | ≥ | ALEACH(54) |
| DCLR ≥ Solubility constant                      | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ | SOLUB0(54) |
| ≥                                               | ≥           | ≥           | ≥           | ≥ |            |
| DCLR ≥ Distribution coefficients for Sn-121m    | ≥           | ≥           | ≥           | ≥ |            |
| DCLR ≥ Contaminated zone (cm**3/g)              | ≥ 5.000E+01 | ≥ 0.000E+00 | ≥ ---       | ≥ | DCNUCC(55) |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)             | ≥ 5.000E+01 | ≥ 0.000E+00 | ≥ ---       | ≥ |            |
| DCNUCU(55,1)                                    |             |             |             |   |            |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)             | ≥ 5.000E+01 | ≥ 0.000E+00 | ≥ ---       | ≥ |            |
| DCNUCU(55,2)                                    |             |             |             |   |            |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)             | ≥ 5.000E+01 | ≥ 0.000E+00 | ≥ ---       | ≥ |            |
| DCNUCU(55,3)                                    |             |             |             |   |            |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)             | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥ |            |
| DCNUCU(55,4)                                    |             |             |             |   |            |
| DCLR ≥ Saturated zone (cm**3/g)                 | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥ | DCNUCS(55) |
| DCLR ≥ Sediment in surface water body (cm**3/g) | ≥ 5.000E+01 | ≥ 0.000E+00 | ≥ ---       | ≥ |            |

|                                                 |             |             |             |              |  |
|-------------------------------------------------|-------------|-------------|-------------|--------------|--|
| DCNUCSWB(55)                                    |             |             |             |              |  |
| DCLR ≥ Agricultural area 1 (cm**3/g)            | ≥ 5.000E+01 | ≥ 0.000E+00 | ≥ ---       | ≥            |  |
| DCNUCOF(55,1)                                   |             |             |             |              |  |
| DCLR ≥ Agricultural area 2 (cm**3/g)            | ≥ 5.000E+01 | ≥ 0.000E+00 | ≥ ---       | ≥            |  |
| DCNUCOF(55,2)                                   |             |             |             |              |  |
| DCLR ≥ Agricultural area 3 (cm**3/g)            | ≥ 5.000E+01 | ≥ 0.000E+00 | ≥ ---       | ≥            |  |
| DCNUCOF(55,3)                                   |             |             |             |              |  |
| DCLR ≥ Agricultural area 4 (cm**3/g)            | ≥ 5.000E+01 | ≥ 0.000E+00 | ≥ ---       | ≥            |  |
| DCNUCOF(55,4)                                   |             |             |             |              |  |
| DCLR ≥ Offsite Dwelling (cm**3/g)               | ≥ 5.000E+01 | ≥ 0.000E+00 | ≥ ---       | ≥            |  |
| DCNUCDWE(55)                                    |             |             |             |              |  |
| DCLR ≥ Leach rate (/yr)                         | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 6.440E-08 | ≥ ALEACH(55) |  |
| DCLR ≥ Solubility constant                      | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(55) |  |
| ≥                                               | ≥           | ≥           | ≥           | ≥            |  |
| DCLR ≥ Distribution coefficients for Sn-126     | ≥           | ≥           | ≥           | ≥            |  |
| DCLR ≥ Contaminated zone (cm**3/g)              | ≥ 5.000E+01 | ≥ 0.000E+00 | ≥ ---       | ≥ DCNUCC(56) |  |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)             | ≥ 5.000E+01 | ≥ 0.000E+00 | ≥ ---       | ≥            |  |
| DCNUCU(56,1)                                    |             |             |             |              |  |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)             | ≥ 5.000E+01 | ≥ 0.000E+00 | ≥ ---       | ≥            |  |
| DCNUCU(56,2)                                    |             |             |             |              |  |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)             | ≥ 5.000E+01 | ≥ 0.000E+00 | ≥ ---       | ≥            |  |
| DCNUCU(56,3)                                    |             |             |             |              |  |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)             | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥            |  |
| DCNUCU(56,4)                                    |             |             |             |              |  |
| DCLR ≥ Saturated zone (cm**3/g)                 | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥ DCNUCS(56) |  |
| DCLR ≥ Sediment in surface water body (cm**3/g) | ≥ 5.000E+01 | ≥ 0.000E+00 | ≥ ---       | ≥            |  |
| DCNUCSWB(56)                                    |             |             |             |              |  |
| DCLR ≥ Agricultural area 1 (cm**3/g)            | ≥ 5.000E+01 | ≥ 0.000E+00 | ≥ ---       | ≥            |  |
| DCNUCOF(56,1)                                   |             |             |             |              |  |
| DCLR ≥ Agricultural area 2 (cm**3/g)            | ≥ 5.000E+01 | ≥ 0.000E+00 | ≥ ---       | ≥            |  |
| DCNUCOF(56,2)                                   |             |             |             |              |  |
| DCLR ≥ Agricultural area 3 (cm**3/g)            | ≥ 5.000E+01 | ≥ 0.000E+00 | ≥ ---       | ≥            |  |
| DCNUCOF(56,3)                                   |             |             |             |              |  |

|                                      |                                                  |
|--------------------------------------|--------------------------------------------------|
| DCLR ≥ Agricultural area 4 (cm**3/g) | ≥ 5.000E+01 ≥ 0.000E+00 ≥ --- ≥                  |
| DCNUCOF(56,4)                        |                                                  |
| DCLR ≥ Offsite Dwelling (cm**3/g)    | ≥ 5.000E+01 ≥ 0.000E+00 ≥ --- ≥                  |
| DCNUCDWE(56)                         |                                                  |
| DCLR ≥ Leach rate (/yr)              | ≥ 0.000E+00 ≥ 0.000E+00 ≥ 6.440E-08 ≥ ALEACH(56) |
| DCLR ≥ Solubility constant           | ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used ≥ SOLUB0(56)  |
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| T' Limit = 30 days                   |                                                  |
| Parent Dose Report                   |                                                  |
| Title : Industrial No Cap Base       |                                                  |
| File : INDUSTRIAL NO CAP BASE.ROF    |                                                  |

## Site-Specific Parameter Summary (continued)

|                                                 |                                |              |
|-------------------------------------------------|--------------------------------|--------------|
| 0 ≥                                             | ≥ User ≥                       | ≥ RESRAD ≥   |
| Parameter                                       |                                |              |
| Menu ≥                                          | ≥ Input ≥ Default ≥ computed ≥ | ≥ Name       |
| ~~~~~                                           |                                |              |
| DCLR ≥ Distribution coefficients for Sr-90      | ≥ ≥ ≥                          | ≥            |
| DCLR ≥ Contaminated zone (cm**3/g)              | ≥ 7.000E+01 ≥ 3.000E+01 ≥ ---  | ≥ DCNUCC(57) |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)             | ≥ 7.000E+01 ≥ 3.000E+01 ≥ ---  | ≥            |
| DCNUCU(57,1)                                    |                                |              |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)             | ≥ 7.000E+01 ≥ 3.000E+01 ≥ ---  | ≥            |
| DCNUCU(57,2)                                    |                                |              |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)             | ≥ 7.000E+01 ≥ 3.000E+01 ≥ ---  | ≥            |
| DCNUCU(57,3)                                    |                                |              |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)             | ≥ 0.000E+00 ≥ 3.000E+01 ≥ ---  | ≥            |
| DCNUCU(57,4)                                    |                                |              |
| DCLR ≥ Saturated zone (cm**3/g)                 | ≥ 0.000E+00 ≥ 3.000E+01 ≥ ---  | ≥ DCNUCS(57) |
| DCLR ≥ Sediment in surface water body (cm**3/g) | ≥ 7.000E+01 ≥ 3.000E+01 ≥ ---  | ≥            |
| DCNUCSWB(57)                                    |                                |              |
| DCLR ≥ Agricultural area 1 (cm**3/g)            | ≥ 7.000E+01 ≥ 3.000E+01 ≥ ---  | ≥            |
| DCNUCOF(57,1)                                   |                                |              |

|                                                                 |                           |           |   |            |
|-----------------------------------------------------------------|---------------------------|-----------|---|------------|
| DCLR ≥ Agricultural area 2 (cm**3/g)<br>DCNUCOF(57,2)           | ≥ 7.000E+01 ≥ 3.000E+01 ≥ | ---       | ≥ |            |
| DCLR ≥ Agricultural area 3 (cm**3/g)<br>DCNUCOF(57,3)           | ≥ 7.000E+01 ≥ 3.000E+01 ≥ | ---       | ≥ |            |
| DCLR ≥ Agricultural area 4 (cm**3/g)<br>DCNUCOF(57,4)           | ≥ 7.000E+01 ≥ 3.000E+01 ≥ | ---       | ≥ |            |
| DCLR ≥ Offsite Dwelling (cm**3/g)<br>DCNUCDWE(57)               | ≥ 7.000E+01 ≥ 3.000E+01 ≥ | ---       | ≥ |            |
| DCLR ≥ Leach rate (/yr)                                         | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | 4.601E-08 | ≥ | ALEACH(57) |
| DCLR ≥ Solubility constant<br>≥                                 | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | not used  | ≥ | SOLUB0(57) |
| DCLR ≥ Distribution coefficients for Th-228                     | ≥                         | ≥         | ≥ | ≥          |
| DCLR ≥ Contaminated zone (cm**3/g)                              | ≥ 1.000E+04 ≥ 6.000E+04 ≥ | ---       | ≥ | DCNUCC(59) |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)<br>DCNUCU(59,1)             | ≥ 1.000E+04 ≥ 6.000E+04 ≥ | ---       | ≥ |            |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)<br>DCNUCU(59,2)             | ≥ 1.000E+04 ≥ 6.000E+04 ≥ | ---       | ≥ |            |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)<br>DCNUCU(59,3)             | ≥ 1.000E+04 ≥ 6.000E+04 ≥ | ---       | ≥ |            |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)<br>DCNUCU(59,4)             | ≥ 0.000E+00 ≥ 6.000E+04 ≥ | ---       | ≥ |            |
| DCLR ≥ Saturated zone (cm**3/g)                                 | ≥ 0.000E+00 ≥ 6.000E+04 ≥ | ---       | ≥ | DCNUCS(59) |
| DCLR ≥ Sediment in surface water body (cm**3/g)<br>DCNUCSWB(59) | ≥ 1.000E+04 ≥ 6.000E+04 ≥ | ---       | ≥ |            |
| DCLR ≥ Agricultural area 1 (cm**3/g)<br>DCNUCOF(59,1)           | ≥ 1.000E+04 ≥ 6.000E+04 ≥ | ---       | ≥ |            |
| DCLR ≥ Agricultural area 2 (cm**3/g)<br>DCNUCOF(59,2)           | ≥ 1.000E+04 ≥ 6.000E+04 ≥ | ---       | ≥ |            |
| DCLR ≥ Agricultural area 3 (cm**3/g)<br>DCNUCOF(59,3)           | ≥ 1.000E+04 ≥ 6.000E+04 ≥ | ---       | ≥ |            |
| DCLR ≥ Agricultural area 4 (cm**3/g)<br>DCNUCOF(59,4)           | ≥ 1.000E+04 ≥ 6.000E+04 ≥ | ---       | ≥ |            |
| DCLR ≥ Offsite Dwelling (cm**3/g)                               | ≥ 1.000E+04 ≥ 6.000E+04 ≥ | ---       | ≥ |            |

## DCNUCDWE(59)

|                                                 |             |             |             |              |
|-------------------------------------------------|-------------|-------------|-------------|--------------|
| DCLR ≥ Leach rate (/yr)                         | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 3.221E-10 | ≥ ALEACH(59) |
| DCLR ≥ Solubility constant                      | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(59) |
| ≥                                               | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Distribution coefficients for Th-230     | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Contaminated zone (cm**3/g)              | ≥ 1.000E+04 | ≥ 6.000E+04 | ≥ ---       | ≥ DCNUCC(61) |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)             | ≥ 1.000E+04 | ≥ 6.000E+04 | ≥ ---       | ≥            |
| DCNUCU(61,1)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)             | ≥ 1.000E+04 | ≥ 6.000E+04 | ≥ ---       | ≥            |
| DCNUCU(61,2)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)             | ≥ 1.000E+04 | ≥ 6.000E+04 | ≥ ---       | ≥            |
| DCNUCU(61,3)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)             | ≥ 0.000E+00 | ≥ 6.000E+04 | ≥ ---       | ≥            |
| DCNUCU(61,4)                                    |             |             |             |              |
| DCLR ≥ Saturated zone (cm**3/g)                 | ≥ 0.000E+00 | ≥ 6.000E+04 | ≥ ---       | ≥ DCNUCS(61) |
| DCLR ≥ Sediment in surface water body (cm**3/g) | ≥ 1.000E+04 | ≥ 6.000E+04 | ≥ ---       | ≥            |
| DCNUCSWB(61)                                    |             |             |             |              |
| DCLR ≥ Agricultural area 1 (cm**3/g)            | ≥ 1.000E+04 | ≥ 6.000E+04 | ≥ ---       | ≥            |
| DCNUCOF(61,1)                                   |             |             |             |              |
| DCLR ≥ Agricultural area 2 (cm**3/g)            | ≥ 1.000E+04 | ≥ 6.000E+04 | ≥ ---       | ≥            |
| DCNUCOF(61,2)                                   |             |             |             |              |
| DCLR ≥ Agricultural area 3 (cm**3/g)            | ≥ 1.000E+04 | ≥ 6.000E+04 | ≥ ---       | ≥            |
| DCNUCOF(61,3)                                   |             |             |             |              |
| DCLR ≥ Agricultural area 4 (cm**3/g)            | ≥ 1.000E+04 | ≥ 6.000E+04 | ≥ ---       | ≥            |
| DCNUCOF(61,4)                                   |             |             |             |              |
| DCLR ≥ Offsite Dwelling (cm**3/g)               | ≥ 1.000E+04 | ≥ 6.000E+04 | ≥ ---       | ≥            |
| DCNUCDWE(61)                                    |             |             |             |              |
| DCLR ≥ Leach rate (/yr)                         | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 3.221E-10 | ≥ ALEACH(61) |
| DCLR ≥ Solubility constant                      | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(61) |

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF



## Site-Specific Parameter Summary (continued)

| 0         | ≥                                               | ≥      | User      | ≥           | RESRAD      | ≥            |
|-----------|-------------------------------------------------|--------|-----------|-------------|-------------|--------------|
| Parameter |                                                 |        |           |             |             |              |
| Menu      | Parameter                                       |        | Input     | Default     | computed    | Name         |
| fffff~    | fffff~                                          | fffff~ | fffff~    | fffff~      | fffff~      | fffff~       |
| fffff     | fffff                                           | fffff  | fffff     | fffff       | fffff       | fffff        |
|           | DCLR ≥ Distribution coefficients for Th-232     | ≥      | ≥         | ≥           | ≥           |              |
|           | DCLR ≥ Contaminated zone (cm**3/g)              | ≥      | 1.000E+04 | ≥ 6.000E+04 | ≥ ---       | ≥ DCNUCC(62) |
|           | DCLR ≥ Unsaturated zone 1 (cm**3/g)             | ≥      | 1.000E+04 | ≥ 6.000E+04 | ≥ ---       | ≥            |
|           | DCNUCU(62,1)                                    |        |           |             |             |              |
|           | DCLR ≥ Unsaturated zone 2 (cm**3/g)             | ≥      | 1.000E+04 | ≥ 6.000E+04 | ≥ ---       | ≥            |
|           | DCNUCU(62,2)                                    |        |           |             |             |              |
|           | DCLR ≥ Unsaturated zone 3 (cm**3/g)             | ≥      | 1.000E+04 | ≥ 6.000E+04 | ≥ ---       | ≥            |
|           | DCNUCU(62,3)                                    |        |           |             |             |              |
|           | DCLR ≥ Unsaturated zone 4 (cm**3/g)             | ≥      | 0.000E+00 | ≥ 6.000E+04 | ≥ ---       | ≥            |
|           | DCNUCU(62,4)                                    |        |           |             |             |              |
|           | DCLR ≥ Saturated zone (cm**3/g)                 | ≥      | 0.000E+00 | ≥ 6.000E+04 | ≥ ---       | ≥ DCNUCS(62) |
|           | DCLR ≥ Sediment in surface water body (cm**3/g) | ≥      | 1.000E+04 | ≥ 6.000E+04 | ≥ ---       | ≥            |
|           | DCNUCSWB(62)                                    |        |           |             |             |              |
|           | DCLR ≥ Agricultural area 1 (cm**3/g)            | ≥      | 1.000E+04 | ≥ 6.000E+04 | ≥ ---       | ≥            |
|           | DCNUCOF(62,1)                                   |        |           |             |             |              |
|           | DCLR ≥ Agricultural area 2 (cm**3/g)            | ≥      | 1.000E+04 | ≥ 6.000E+04 | ≥ ---       | ≥            |
|           | DCNUCOF(62,2)                                   |        |           |             |             |              |
|           | DCLR ≥ Agricultural area 3 (cm**3/g)            | ≥      | 1.000E+04 | ≥ 6.000E+04 | ≥ ---       | ≥            |
|           | DCNUCOF(62,3)                                   |        |           |             |             |              |
|           | DCLR ≥ Agricultural area 4 (cm**3/g)            | ≥      | 1.000E+04 | ≥ 6.000E+04 | ≥ ---       | ≥            |
|           | DCNUCOF(62,4)                                   |        |           |             |             |              |
|           | DCLR ≥ Offsite Dwelling (cm**3/g)               | ≥      | 1.000E+04 | ≥ 6.000E+04 | ≥ ---       | ≥            |
|           | DCNUCDWE(62)                                    |        |           |             |             |              |
|           | DCLR ≥ Leach rate (/yr)                         | ≥      | 0.000E+00 | ≥ 0.000E+00 | ≥ 3.221E-10 | ≥ ALEACH(62) |
|           | DCLR ≥ Solubility constant                      | ≥      | 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(62) |

|                                                 |             |             |             |              |
|-------------------------------------------------|-------------|-------------|-------------|--------------|
| ≥                                               | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Distribution coefficients for U-233      | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Contaminated zone (cm**3/g)              | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥ DCNUCC(63) |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)             | ≥ 2.400E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCU(63,1)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)             | ≥ 2.400E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCU(63,2)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)             | ≥ 2.400E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCU(63,3)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)             | ≥ 0.000E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCU(63,4)                                    |             |             |             |              |
| DCLR ≥ Saturated zone (cm**3/g)                 | ≥ 0.000E+00 | ≥ 5.000E+01 | ≥ ---       | ≥ DCNUCS(63) |
| DCLR ≥ Sediment in surface water body (cm**3/g) | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCSWB(63)                                    |             |             |             |              |
| DCLR ≥ Agricultural area 1 (cm**3/g)            | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCOF(63,1)                                   |             |             |             |              |
| DCLR ≥ Agricultural area 2 (cm**3/g)            | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCOF(63,2)                                   |             |             |             |              |
| DCLR ≥ Agricultural area 3 (cm**3/g)            | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCOF(63,3)                                   |             |             |             |              |
| DCLR ≥ Agricultural area 4 (cm**3/g)            | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCOF(63,4)                                   |             |             |             |              |
| DCLR ≥ Offsite Dwelling (cm**3/g)               | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCDWE(63)                                    |             |             |             |              |
| DCLR ≥ Leach rate (/yr)                         | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 1.229E-06 | ≥ ALEACH(63) |
| DCLR ≥ Solubility constant                      | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(63) |
| ≥                                               | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Distribution coefficients for U-234      | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Contaminated zone (cm**3/g)              | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥ DCNUCC(64) |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)             | ≥ 2.400E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCU(64,1)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)             | ≥ 2.400E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCU(64,2)                                    |             |             |             |              |

|                                                                                                                    |               |             |             |             |              |
|--------------------------------------------------------------------------------------------------------------------|---------------|-------------|-------------|-------------|--------------|
| DCLR ≥ Unsaturated zone 3 (cm**3/g)                                                                                | DCNUCU(64,3)  | ≥ 2.400E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)                                                                                | DCNUCU(64,4)  | ≥ 0.000E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCLR ≥ Saturated zone (cm**3/g)                                                                                    |               | ≥ 0.000E+00 | ≥ 5.000E+01 | ≥ ---       | ≥ DCNUCS(64) |
| DCLR ≥ Sediment in surface water body (cm**3/g)                                                                    | DCNUCSWB(64)  | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCLR ≥ Agricultural area 1 (cm**3/g)                                                                               | DCNUCOF(64,1) | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCLR ≥ Agricultural area 2 (cm**3/g)                                                                               | DCNUCOF(64,2) | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCLR ≥ Agricultural area 3 (cm**3/g)                                                                               | DCNUCOF(64,3) | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCLR ≥ Agricultural area 4 (cm**3/g)                                                                               | DCNUCOF(64,4) | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCLR ≥ Offsite Dwelling (cm**3/g)                                                                                  | DCNUCDWE(64)  | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCLR ≥ Leach rate (/yr)                                                                                            |               | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 1.229E-06 | ≥ ALEACH(64) |
| DCLR ≥ Solubility constant                                                                                         |               | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(64) |
| 1RESRAD-OFFSITE, Version 2.6                      T' Limit = 30 days                      09/19/2012 14:54 Page 34 |               |             |             |             |              |
| Parent Dose Report                                                                                                 |               |             |             |             |              |
| Title : Industrial No Cap Base                                                                                     |               |             |             |             |              |
| File : INDUSTRIAL NO CAP BASE.ROF                                                                                  |               |             |             |             |              |

Site-Specific Parameter Summary (continued)

|                                            |           |             |             |            |              |
|--------------------------------------------|-----------|-------------|-------------|------------|--------------|
| 0                                          | ≥         | ≥ User      | ≥           | ≥ RESRAD   | ≥            |
| Parameter                                  |           |             |             |            |              |
| Menu ≥                                     | Parameter | ≥ Input     | ≥ Default   | ≥ computed | ≥ Name       |
| ~~~~~                                      |           |             |             |            |              |
| DCLR ≥ Distribution coefficients for U-235 |           | ≥           | ≥           | ≥          | ≥            |
| DCLR ≥ Contaminated zone (cm**3/g)         |           | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---      | ≥ DCNUCC(65) |

|                                                 |             |             |             |              |
|-------------------------------------------------|-------------|-------------|-------------|--------------|
| DCLR ≥ Unsaturated zone 1 (cm**3/g)             | ≥ 2.400E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCU(65,1)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)             | ≥ 2.400E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCU(65,2)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)             | ≥ 2.400E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCU(65,3)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)             | ≥ 0.000E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCU(65,4)                                    |             |             |             |              |
| DCLR ≥ Saturated zone (cm**3/g)                 | ≥ 0.000E+00 | ≥ 5.000E+01 | ≥ ---       | ≥ DCNUCS(65) |
| DCLR ≥ Sediment in surface water body (cm**3/g) | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCSWB(65)                                    |             |             |             |              |
| DCLR ≥ Agricultural area 1 (cm**3/g)            | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCOF(65,1)                                   |             |             |             |              |
| DCLR ≥ Agricultural area 2 (cm**3/g)            | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCOF(65,2)                                   |             |             |             |              |
| DCLR ≥ Agricultural area 3 (cm**3/g)            | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCOF(65,3)                                   |             |             |             |              |
| DCLR ≥ Agricultural area 4 (cm**3/g)            | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCOF(65,4)                                   |             |             |             |              |
| DCLR ≥ Offsite Dwelling (cm**3/g)               | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCDWE(65)                                    |             |             |             |              |
| DCLR ≥ Leach rate (/yr)                         | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 1.229E-06 | ≥ ALEACH(65) |
| DCLR ≥ Solubility constant                      | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(65) |
| ≥                                               | ≥           | ≥           |             | ≥            |
| DCLR ≥ Distribution coefficients for U-236      | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Contaminated zone (cm**3/g)              | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥ DCNUCC(66) |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)             | ≥ 2.400E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCU(66,1)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)             | ≥ 2.400E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCU(66,2)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)             | ≥ 2.400E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCU(66,3)                                    |             |             |             |              |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)             | ≥ 0.000E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |

|                                                 |             |             |             |              |  |
|-------------------------------------------------|-------------|-------------|-------------|--------------|--|
| DCNUCU(66,4)                                    |             |             |             |              |  |
| DCLR ≥ Saturated zone (cm**3/g)                 | ≥ 0.000E+00 | ≥ 5.000E+01 | ≥ ---       | ≥ DCNUCS(66) |  |
| DCLR ≥ Sediment in surface water body (cm**3/g) | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |  |
| DCNUCSWB(66)                                    |             |             |             |              |  |
| DCLR ≥ Agricultural area 1 (cm**3/g)            | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |  |
| DCNUCOF(66,1)                                   |             |             |             |              |  |
| DCLR ≥ Agricultural area 2 (cm**3/g)            | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |  |
| DCNUCOF(66,2)                                   |             |             |             |              |  |
| DCLR ≥ Agricultural area 3 (cm**3/g)            | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |  |
| DCNUCOF(66,3)                                   |             |             |             |              |  |
| DCLR ≥ Agricultural area 4 (cm**3/g)            | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |  |
| DCNUCOF(66,4)                                   |             |             |             |              |  |
| DCLR ≥ Offsite Dwelling (cm**3/g)               | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |  |
| DCNUCDWE(66)                                    |             |             |             |              |  |
| DCLR ≥ Leach rate (/yr)                         | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 1.229E-06 | ≥ ALEACH(66) |  |
| DCLR ≥ Solubility constant                      | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(66) |  |
| ≥                                               | ≥           | ≥           | ≥           | ≥            |  |
| DCLR ≥ Distribution coefficients for U-238      | ≥           | ≥           | ≥           | ≥            |  |
| DCLR ≥ Contaminated zone (cm**3/g)              | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥ DCNUCC(67) |  |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)             | ≥ 2.400E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |  |
| DCNUCU(67,1)                                    |             |             |             |              |  |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)             | ≥ 2.400E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |  |
| DCNUCU(67,2)                                    |             |             |             |              |  |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)             | ≥ 2.400E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |  |
| DCNUCU(67,3)                                    |             |             |             |              |  |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)             | ≥ 0.000E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |  |
| DCNUCU(67,4)                                    |             |             |             |              |  |
| DCLR ≥ Saturated zone (cm**3/g)                 | ≥ 0.000E+00 | ≥ 5.000E+01 | ≥ ---       | ≥ DCNUCS(67) |  |
| DCLR ≥ Sediment in surface water body (cm**3/g) | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |  |
| DCNUCSWB(67)                                    |             |             |             |              |  |
| DCLR ≥ Agricultural area 1 (cm**3/g)            | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |  |
| DCNUCOF(67,1)                                   |             |             |             |              |  |
| DCLR ≥ Agricultural area 2 (cm**3/g)            | ≥ 2.600E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |  |

DCNUCOF(67,2)  
 DCLR ≥ Agricultural area 3 (cm\*\*3/g) ≥ 2.600E+00 ≥ 5.000E+01 ≥ --- ≥  
 DCNUCOF(67,3)  
 DCLR ≥ Agricultural area 4 (cm\*\*3/g) ≥ 2.600E+00 ≥ 5.000E+01 ≥ --- ≥  
 DCNUCOF(67,4)  
 DCLR ≥ Offsite Dwelling (cm\*\*3/g) ≥ 2.600E+00 ≥ 5.000E+01 ≥ --- ≥  
 DCNUCDWE(67)  
 DCLR ≥ Leach rate (/yr) ≥ 0.000E+00 ≥ 0.000E+00 ≥ 1.229E-06 ≥ ALEACH(67)  
 DCLR ≥ Solubility constant ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used ≥ SOLUB0(67)  
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 Parent Dose Report  
 Title : Industrial No Cap Base  
 File : INDUSTRIAL NO CAP BASE.ROF

## Site-Specific Parameter Summary (continued)

| 0           | ≥                                            | ≥         | User      | ≥     | ≥         | RESRAD  | ≥                 |
|-------------|----------------------------------------------|-----------|-----------|-------|-----------|---------|-------------------|
| Parameter   |                                              |           |           |       |           |         |                   |
| Menu        | ≥                                            | Parameter | ≥         | Input | ≥         | Default | ≥ computed ≥ Name |
| fffff~      | fffff                                        | fffff     | fffff     | fffff | fffff     | fffff   | fffff             |
| fffff       |                                              |           |           |       |           |         |                   |
| DCLR ≥      | Distribution coefficients for progeny Am-243 | ≥         |           | ≥     |           | ≥       |                   |
| DCLR ≥      | Contaminated zone (cm**3/g)                  | ≥         | 2.100E+03 | ≥     | 2.000E+01 | ≥       | --- ≥ DCNUCC(4)   |
| DCLR ≥      | Unsaturated zone 1 (cm**3/g)                 | ≥         | 2.400E+03 | ≥     | 2.000E+01 | ≥       | --- ≥             |
| DCNUCU(4,1) |                                              |           |           |       |           |         |                   |
| DCLR ≥      | Unsaturated zone 2 (cm**3/g)                 | ≥         | 2.400E+03 | ≥     | 2.000E+01 | ≥       | --- ≥             |
| DCNUCU(4,2) |                                              |           |           |       |           |         |                   |
| DCLR ≥      | Unsaturated zone 3 (cm**3/g)                 | ≥         | 2.400E+03 | ≥     | 2.000E+01 | ≥       | --- ≥             |
| DCNUCU(4,3) |                                              |           |           |       |           |         |                   |
| DCLR ≥      | Unsaturated zone 4 (cm**3/g)                 | ≥         | 0.000E+00 | ≥     | 2.000E+01 | ≥       | --- ≥             |
| DCNUCU(4,4) |                                              |           |           |       |           |         |                   |
| DCLR ≥      | Saturated zone (cm**3/g)                     | ≥         | 0.000E+00 | ≥     | 2.000E+01 | ≥       | --- ≥ DCNUCS(4)   |
| DCLR ≥      | Sediment in surface water body (cm**3/g)     | ≥         | 2.100E+03 | ≥     | 2.000E+01 | ≥       | --- ≥             |

|                                                     |             |             |             |              |  |
|-----------------------------------------------------|-------------|-------------|-------------|--------------|--|
| DCNUCSWB(4)                                         |             |             |             |              |  |
| DCLR ≥ Agricultural area 1 (cm**3/g)                | ≥ 2.100E+03 | ≥ 2.000E+01 | ≥ ---       | ≥            |  |
| DCNUCOF(4,1)                                        |             |             |             |              |  |
| DCLR ≥ Agricultural area 2 (cm**3/g)                | ≥ 2.100E+03 | ≥ 2.000E+01 | ≥ ---       | ≥            |  |
| DCNUCOF(4,2)                                        |             |             |             |              |  |
| DCLR ≥ Agricultural area 3 (cm**3/g)                | ≥ 2.100E+03 | ≥ 2.000E+01 | ≥ ---       | ≥            |  |
| DCNUCOF(4,3)                                        |             |             |             |              |  |
| DCLR ≥ Agricultural area 4 (cm**3/g)                | ≥ 2.100E+03 | ≥ 2.000E+01 | ≥ ---       | ≥            |  |
| DCNUCOF(4,4)                                        |             |             |             |              |  |
| DCLR ≥ Offsite Dwelling (cm**3/g)                   | ≥ 2.100E+03 | ≥ 2.000E+01 | ≥ ---       | ≥            |  |
| DCNUCDWE(4)                                         |             |             |             |              |  |
| DCLR ≥ Leach rate (/yr)                             | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 1.534E-09 | ≥ ALEACH(4)  |  |
| DCLR ≥ Solubility constant                          | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(4)  |  |
| ≥                                                   | ≥           | ≥           | ≥           | ≥            |  |
| DCLR ≥ Distribution coefficients for progeny Cm-245 | ≥           | ≥           | ≥           | ≥            |  |
| DCLR ≥ Contaminated zone (cm**3/g)                  | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥ DCNUCC(15) |  |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)                 | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |  |
| DCNUCU(15,1)                                        |             |             |             |              |  |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)                 | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |  |
| DCNUCU(15,2)                                        |             |             |             |              |  |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)                 | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |  |
| DCNUCU(15,3)                                        |             |             |             |              |  |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)                 | ≥ 0.000E+00 | ≥ 1.380E+03 | ≥ ---       | ≥            |  |
| DCNUCU(15,4)                                        |             |             |             |              |  |
| DCLR ≥ Saturated zone (cm**3/g)                     | ≥ 0.000E+00 | ≥ 1.380E+03 | ≥ ---       | ≥ DCNUCS(15) |  |
| DCLR ≥ Sediment in surface water body (cm**3/g)     | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |  |
| DCNUCSWB(15)                                        |             |             |             |              |  |
| DCLR ≥ Agricultural area 1 (cm**3/g)                | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |  |
| DCNUCOF(15,1)                                       |             |             |             |              |  |
| DCLR ≥ Agricultural area 2 (cm**3/g)                | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |  |
| DCNUCOF(15,2)                                       |             |             |             |              |  |
| DCLR ≥ Agricultural area 3 (cm**3/g)                | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |  |
| DCNUCOF(15,3)                                       |             |             |             |              |  |

|                                                     |                                                  |
|-----------------------------------------------------|--------------------------------------------------|
| DCLR ≥ Agricultural area 4 (cm**3/g)                | ≥ 5.000E+01 ≥ 1.380E+03 ≥ --- ≥                  |
| DCNUCOF(15,4)                                       |                                                  |
| DCLR ≥ Offsite Dwelling (cm**3/g)                   | ≥ 5.000E+01 ≥ 1.380E+03 ≥ --- ≥                  |
| DCNUCDWE(15)                                        |                                                  |
| DCLR ≥ Leach rate (/yr)                             | ≥ 0.000E+00 ≥ 0.000E+00 ≥ 6.440E-08 ≥ ALEACH(15) |
| DCLR ≥ Solubility constant                          | ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used ≥ SOLUB0(15)  |
| ≥                                                   | ≥ ≥ ≥ ≥                                          |
| DCLR ≥ Distribution coefficients for progeny Cm-245 | ≥ ≥ ≥ ≥                                          |
| DCLR ≥ Contaminated zone (cm**3/g)                  | ≥ 5.000E+01 ≥ 1.380E+03 ≥ --- ≥ DCNUCC(16)       |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)                 | ≥ 5.000E+01 ≥ 1.380E+03 ≥ --- ≥                  |
| DCNUCU(16,1)                                        |                                                  |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)                 | ≥ 5.000E+01 ≥ 1.380E+03 ≥ --- ≥                  |
| DCNUCU(16,2)                                        |                                                  |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)                 | ≥ 5.000E+01 ≥ 1.380E+03 ≥ --- ≥                  |
| DCNUCU(16,3)                                        |                                                  |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)                 | ≥ 0.000E+00 ≥ 1.380E+03 ≥ --- ≥                  |
| DCNUCU(16,4)                                        |                                                  |
| DCLR ≥ Saturated zone (cm**3/g)                     | ≥ 0.000E+00 ≥ 1.380E+03 ≥ --- ≥ DCNUCS(16)       |
| DCLR ≥ Sediment in surface water body (cm**3/g)     | ≥ 5.000E+01 ≥ 1.380E+03 ≥ --- ≥                  |
| DCNUCSWB(16)                                        |                                                  |
| DCLR ≥ Agricultural area 1 (cm**3/g)                | ≥ 5.000E+01 ≥ 1.380E+03 ≥ --- ≥                  |
| DCNUCOF(16,1)                                       |                                                  |
| DCLR ≥ Agricultural area 2 (cm**3/g)                | ≥ 5.000E+01 ≥ 1.380E+03 ≥ --- ≥                  |
| DCNUCOF(16,2)                                       |                                                  |
| DCLR ≥ Agricultural area 3 (cm**3/g)                | ≥ 5.000E+01 ≥ 1.380E+03 ≥ --- ≥                  |
| DCNUCOF(16,3)                                       |                                                  |
| DCLR ≥ Agricultural area 4 (cm**3/g)                | ≥ 5.000E+01 ≥ 1.380E+03 ≥ --- ≥                  |
| DCNUCOF(16,4)                                       |                                                  |
| DCLR ≥ Offsite Dwelling (cm**3/g)                   | ≥ 5.000E+01 ≥ 1.380E+03 ≥ --- ≥                  |
| DCNUCDWE(16)                                        |                                                  |
| DCLR ≥ Leach rate (/yr)                             | ≥ 0.000E+00 ≥ 0.000E+00 ≥ 6.440E-08 ≥ ALEACH(16) |
| DCLR ≥ Solubility constant                          | ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used ≥ SOLUB0(16)  |

1RESRAD-OFFSITE, Version 2.6

T' Limit = 30 days

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## Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

## Site-Specific Parameter Summary (continued)

| 0             | ≥     | ≥                                            | User  | ≥         | ≥     | RESRAD    | ≥                  |
|---------------|-------|----------------------------------------------|-------|-----------|-------|-----------|--------------------|
| Parameter     |       |                                              |       |           |       |           |                    |
| Menu          | ≥     | Parameter                                    | ≥     | Input     | ≥     | Default   | ≥                  |
|               |       |                                              |       |           |       | computed  | ≥                  |
|               |       |                                              |       |           |       |           | Name               |
| fffff~        | fffff | fffff                                        | fffff | fffff     | fffff | fffff     | fffff              |
| fffff         |       |                                              |       |           |       |           |                    |
| DCLR          | ≥     | Distribution coefficients for progeny Cm-247 | ≥     |           | ≥     |           | ≥                  |
| DCLR          | ≥     | Contaminated zone (cm**3/g)                  | ≥     | 5.000E+01 | ≥     | 1.380E+03 | ≥ --- ≥ DCNUCC(17) |
| DCLR          | ≥     | Unsaturated zone 1 (cm**3/g)                 | ≥     | 5.000E+01 | ≥     | 1.380E+03 | ≥ --- ≥            |
| DCNUCU(17,1)  |       |                                              |       |           |       |           |                    |
| DCLR          | ≥     | Unsaturated zone 2 (cm**3/g)                 | ≥     | 5.000E+01 | ≥     | 1.380E+03 | ≥ --- ≥            |
| DCNUCU(17,2)  |       |                                              |       |           |       |           |                    |
| DCLR          | ≥     | Unsaturated zone 3 (cm**3/g)                 | ≥     | 5.000E+01 | ≥     | 1.380E+03 | ≥ --- ≥            |
| DCNUCU(17,3)  |       |                                              |       |           |       |           |                    |
| DCLR          | ≥     | Unsaturated zone 4 (cm**3/g)                 | ≥     | 0.000E+00 | ≥     | 1.380E+03 | ≥ --- ≥            |
| DCNUCU(17,4)  |       |                                              |       |           |       |           |                    |
| DCLR          | ≥     | Saturated zone (cm**3/g)                     | ≥     | 0.000E+00 | ≥     | 1.380E+03 | ≥ --- ≥ DCNUCS(17) |
| DCLR          | ≥     | Sediment in surface water body (cm**3/g)     | ≥     | 5.000E+01 | ≥     | 1.380E+03 | ≥ --- ≥            |
| DCNUCSWB(17)  |       |                                              |       |           |       |           |                    |
| DCLR          | ≥     | Agricultural area 1 (cm**3/g)                | ≥     | 5.000E+01 | ≥     | 1.380E+03 | ≥ --- ≥            |
| DCNUCOF(17,1) |       |                                              |       |           |       |           |                    |
| DCLR          | ≥     | Agricultural area 2 (cm**3/g)                | ≥     | 5.000E+01 | ≥     | 1.380E+03 | ≥ --- ≥            |
| DCNUCOF(17,2) |       |                                              |       |           |       |           |                    |
| DCLR          | ≥     | Agricultural area 3 (cm**3/g)                | ≥     | 5.000E+01 | ≥     | 1.380E+03 | ≥ --- ≥            |
| DCNUCOF(17,3) |       |                                              |       |           |       |           |                    |
| DCLR          | ≥     | Agricultural area 4 (cm**3/g)                | ≥     | 5.000E+01 | ≥     | 1.380E+03 | ≥ --- ≥            |
| DCNUCOF(17,4) |       |                                              |       |           |       |           |                    |
| DCLR          | ≥     | Offsite Dwelling (cm**3/g)                   | ≥     | 5.000E+01 | ≥     | 1.380E+03 | ≥ --- ≥            |

## DCNUCDWE(17)

|                                                     |             |             |             |              |
|-----------------------------------------------------|-------------|-------------|-------------|--------------|
| DCLR ≥ Leach rate (/yr)                             | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 6.440E-08 | ≥ ALEACH(17) |
| DCLR ≥ Solubility constant                          | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(17) |
| ≥                                                   | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Distribution coefficients for progeny Cm-248 | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Contaminated zone (cm**3/g)                  | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥ DCNUCC(18) |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)                 | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCU(18,1)                                        |             |             |             |              |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)                 | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCU(18,2)                                        |             |             |             |              |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)                 | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCU(18,3)                                        |             |             |             |              |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)                 | ≥ 0.000E+00 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCU(18,4)                                        |             |             |             |              |
| DCLR ≥ Saturated zone (cm**3/g)                     | ≥ 0.000E+00 | ≥ 1.380E+03 | ≥ ---       | ≥ DCNUCS(18) |
| DCLR ≥ Sediment in surface water body (cm**3/g)     | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCSWB(18)                                        |             |             |             |              |
| DCLR ≥ Agricultural area 1 (cm**3/g)                | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCOF(18,1)                                       |             |             |             |              |
| DCLR ≥ Agricultural area 2 (cm**3/g)                | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCOF(18,2)                                       |             |             |             |              |
| DCLR ≥ Agricultural area 3 (cm**3/g)                | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCOF(18,3)                                       |             |             |             |              |
| DCLR ≥ Agricultural area 4 (cm**3/g)                | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCOF(18,4)                                       |             |             |             |              |
| DCLR ≥ Offsite Dwelling (cm**3/g)                   | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCDWE(18)                                        |             |             |             |              |
| DCLR ≥ Leach rate (/yr)                             | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 6.440E-08 | ≥ ALEACH(18) |
| DCLR ≥ Solubility constant                          | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(18) |
| ≥                                                   | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Distribution coefficients for progeny Cm-248 | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Contaminated zone (cm**3/g)                  | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥ DCNUCC(19) |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)                 | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |

| Site-Specific Parameter Summary (continued) |      |           |       |         |          |        |
|---------------------------------------------|------|-----------|-------|---------|----------|--------|
| Parameter                                   | Menu | Parameter | Input | Default | computed | Name   |
| 0                                           | ≥    |           | ≥     | User    | ≥        | RESRAD |

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|                                                     |             |             |             |              |
|-----------------------------------------------------|-------------|-------------|-------------|--------------|
| DCLR ≥ Distribution coefficients for progeny Cm-248 | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Contaminated zone (cm**3/g)                  | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥ DCNUCC(20) |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)                 | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCU(20,1)                                        |             |             |             |              |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)                 | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCU(20,2)                                        |             |             |             |              |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)                 | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCU(20,3)                                        |             |             |             |              |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)                 | ≥ 0.000E+00 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCU(20,4)                                        |             |             |             |              |
| DCLR ≥ Saturated zone (cm**3/g)                     | ≥ 0.000E+00 | ≥ 1.380E+03 | ≥ ---       | ≥ DCNUCS(20) |
| DCLR ≥ Sediment in surface water body (cm**3/g)     | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCSWB(20)                                        |             |             |             |              |
| DCLR ≥ Agricultural area 1 (cm**3/g)                | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCOF(20,1)                                       |             |             |             |              |
| DCLR ≥ Agricultural area 2 (cm**3/g)                | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCOF(20,2)                                       |             |             |             |              |
| DCLR ≥ Agricultural area 3 (cm**3/g)                | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCOF(20,3)                                       |             |             |             |              |
| DCLR ≥ Agricultural area 4 (cm**3/g)                | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCOF(20,4)                                       |             |             |             |              |
| DCLR ≥ Offsite Dwelling (cm**3/g)                   | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCDWE(20)                                        |             |             |             |              |
| DCLR ≥ Leach rate (/yr)                             | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 6.440E-08 | ≥ ALEACH(20) |
| DCLR ≥ Solubility constant                          | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(20) |
| ≥                                                   | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Distribution coefficients for progeny Cm-248 | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Contaminated zone (cm**3/g)                  | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥ DCNUCC(21) |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)                 | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCU(21,1)                                        |             |             |             |              |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)                 | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCU(21,2)                                        |             |             |             |              |

|                                                     |             |             |             |              |
|-----------------------------------------------------|-------------|-------------|-------------|--------------|
| DCLR ≥ Unsaturated zone 3 (cm**3/g)                 | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCU(21,3)                                        |             |             |             |              |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)                 | ≥ 0.000E+00 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCU(21,4)                                        |             |             |             |              |
| DCLR ≥ Saturated zone (cm**3/g)                     | ≥ 0.000E+00 | ≥ 1.380E+03 | ≥ ---       | ≥ DCNUCS(21) |
| DCLR ≥ Sediment in surface water body (cm**3/g)     | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCSWB(21)                                        |             |             |             |              |
| DCLR ≥ Agricultural area 1 (cm**3/g)                | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCOF(21,1)                                       |             |             |             |              |
| DCLR ≥ Agricultural area 2 (cm**3/g)                | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCOF(21,2)                                       |             |             |             |              |
| DCLR ≥ Agricultural area 3 (cm**3/g)                | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCOF(21,3)                                       |             |             |             |              |
| DCLR ≥ Agricultural area 4 (cm**3/g)                | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCOF(21,4)                                       |             |             |             |              |
| DCLR ≥ Offsite Dwelling (cm**3/g)                   | ≥ 5.000E+01 | ≥ 1.380E+03 | ≥ ---       | ≥            |
| DCNUCDWE(21)                                        |             |             |             |              |
| DCLR ≥ Leach rate (/yr)                             | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 6.440E-08 | ≥ ALEACH(21) |
| DCLR ≥ Solubility constant                          | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(21) |
| ≥                                                   | ≥           | ≥           |             | ≥            |
| DCLR ≥ Distribution coefficients for progeny Pa-231 | ≥           | ≥           |             | ≥            |
| DCLR ≥ Contaminated zone (cm**3/g)                  | ≥ 5.500E+03 | ≥ 5.000E+01 | ≥ ---       | ≥ DCNUCC(31) |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)                 | ≥ 5.500E+03 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCU(31,1)                                        |             |             |             |              |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)                 | ≥ 5.500E+03 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCU(31,2)                                        |             |             |             |              |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)                 | ≥ 5.500E+03 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCU(31,3)                                        |             |             |             |              |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)                 | ≥ 0.000E+00 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCU(31,4)                                        |             |             |             |              |
| DCLR ≥ Saturated zone (cm**3/g)                     | ≥ 0.000E+00 | ≥ 5.000E+01 | ≥ ---       | ≥ DCNUCS(31) |
| DCLR ≥ Sediment in surface water body (cm**3/g)     | ≥ 5.500E+03 | ≥ 5.000E+01 | ≥ ---       | ≥            |
| DCNUCSWB(31)                                        |             |             |             |              |

| Site-Specific Parameter Summary (continued) |       |                                              |       |           |       |           |            |        |
|---------------------------------------------|-------|----------------------------------------------|-------|-----------|-------|-----------|------------|--------|
| 0                                           | ≥     | ≥                                            | User  | ≥         | ≥     | RESRAD    | ≥          |        |
| Parameter                                   |       |                                              |       |           |       |           |            |        |
| Menu                                        | ≥     | Parameter                                    | ≥     | Input     | ≥     | Default   | ≥ computed | ≥ Name |
| fffff~                                      | fffff | fffff                                        | fffff | fffff     | fffff | fffff     | fffff      | fffff  |
| fffff                                       |       |                                              |       |           |       |           |            |        |
| DCLR                                        | ≥     | Distribution coefficients for progeny Po-210 | ≥     |           | ≥     |           | ≥          |        |
| DCLR                                        | ≥     | Contaminated zone (cm**3/g)                  | ≥     | 1.000E+01 | ≥     | 1.000E+01 | ≥          | ---    |
| DCLR                                        | ≥     | Unsaturated zone 1 (cm**3/g)                 | ≥     | 1.000E+01 | ≥     | 1.000E+01 | ≥          | ---    |
| DCNUCU(34,1)                                |       |                                              |       |           |       |           |            |        |
| DCLR                                        | ≥     | Unsaturated zone 2 (cm**3/g)                 | ≥     | 1.000E+01 | ≥     | 1.000E+01 | ≥          | ---    |
| DCNUCU(34,2)                                |       |                                              |       |           |       |           |            |        |
| DCLR                                        | ≥     | Unsaturated zone 3 (cm**3/g)                 | ≥     | 1.000E+01 | ≥     | 1.000E+01 | ≥          | ---    |
| DCNUCU(34,3)                                |       |                                              |       |           |       |           |            |        |
| DCLR                                        | ≥     | Unsaturated zone 4 (cm**3/g)                 | ≥     | 1.000E+01 | ≥     | 1.000E+01 | ≥          | ---    |

|                                                     |             |             |             |              |  |
|-----------------------------------------------------|-------------|-------------|-------------|--------------|--|
| DCNUCU(34,4)                                        |             |             |             |              |  |
| DCLR ≥ Saturated zone (cm**3/g)                     | ≥ 1.000E+01 | ≥ 1.000E+01 | ≥ ---       | ≥ DCNUCS(34) |  |
| DCLR ≥ Sediment in surface water body (cm**3/g)     | ≥ 1.000E+01 | ≥ 1.000E+01 | ≥ ---       | ≥            |  |
| DCNUCSWB(34)                                        |             |             |             |              |  |
| DCLR ≥ Agricultural area 1 (cm**3/g)                | ≥ 1.000E+01 | ≥ 1.000E+01 | ≥ ---       | ≥            |  |
| DCNUCOF(34,1)                                       |             |             |             |              |  |
| DCLR ≥ Agricultural area 2 (cm**3/g)                | ≥ 1.000E+01 | ≥ 1.000E+01 | ≥ ---       | ≥            |  |
| DCNUCOF(34,2)                                       |             |             |             |              |  |
| DCLR ≥ Agricultural area 3 (cm**3/g)                | ≥ 1.000E+01 | ≥ 1.000E+01 | ≥ ---       | ≥            |  |
| DCNUCOF(34,3)                                       |             |             |             |              |  |
| DCLR ≥ Agricultural area 4 (cm**3/g)                | ≥ 1.000E+01 | ≥ 1.000E+01 | ≥ ---       | ≥            |  |
| DCNUCOF(34,4)                                       |             |             |             |              |  |
| DCLR ≥ Offsite Dwelling (cm**3/g)                   | ≥ 1.000E+01 | ≥ 1.000E+01 | ≥ ---       | ≥            |  |
| DCNUCDWE(34)                                        |             |             |             |              |  |
| DCLR ≥ Leach rate (/yr)                             | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 3.215E-07 | ≥ ALEACH(34) |  |
| DCLR ≥ Solubility constant                          | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(34) |  |
| ≥                                                   | ≥           | ≥           |             | ≥            |  |
| DCLR ≥ Distribution coefficients for progeny Pu-244 | ≥           | ≥           | ≥           | ≥            |  |
| DCLR ≥ Contaminated zone (cm**3/g)                  | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥ DCNUCC(45) |  |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)                 | ≥ 4.100E+00 | ≥ 2.000E+03 | ≥ ---       | ≥            |  |
| DCNUCU(45,1)                                        |             |             |             |              |  |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)                 | ≥ 4.100E+00 | ≥ 2.000E+03 | ≥ ---       | ≥            |  |
| DCNUCU(45,2)                                        |             |             |             |              |  |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)                 | ≥ 4.100E+00 | ≥ 2.000E+03 | ≥ ---       | ≥            |  |
| DCNUCU(45,3)                                        |             |             |             |              |  |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)                 | ≥ 0.000E+00 | ≥ 2.000E+03 | ≥ ---       | ≥            |  |
| DCNUCU(45,4)                                        |             |             |             |              |  |
| DCLR ≥ Saturated zone (cm**3/g)                     | ≥ 0.000E+00 | ≥ 2.000E+03 | ≥ ---       | ≥ DCNUCS(45) |  |
| DCLR ≥ Sediment in surface water body (cm**3/g)     | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥            |  |
| DCNUCSWB(45)                                        |             |             |             |              |  |
| DCLR ≥ Agricultural area 1 (cm**3/g)                | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥            |  |
| DCNUCOF(45,1)                                       |             |             |             |              |  |
| DCLR ≥ Agricultural area 2 (cm**3/g)                | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥            |  |

|                                                     |             |             |             |   |            |
|-----------------------------------------------------|-------------|-------------|-------------|---|------------|
| DCNUCOF(45,2)                                       |             |             |             |   |            |
| DCLR ≥ Agricultural area 3 (cm**3/g)                | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥ |            |
| DCNUCOF(45,3)                                       |             |             |             |   |            |
| DCLR ≥ Agricultural area 4 (cm**3/g)                | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥ |            |
| DCNUCOF(45,4)                                       |             |             |             |   |            |
| DCLR ≥ Offsite Dwelling (cm**3/g)                   | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥ |            |
| DCNUCDWE(45)                                        |             |             |             |   |            |
| DCLR ≥ Leach rate (/yr)                             | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 4.537E-09 | ≥ | ALEACH(45) |
| DCLR ≥ Solubility constant                          | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ | SOLUB0(45) |
| ≥                                                   | ≥           | ≥           |             | ≥ |            |
| DCLR ≥ Distribution coefficients for progeny Pu-244 | ≥           | ≥           | ≥           | ≥ |            |
| DCLR ≥ Contaminated zone (cm**3/g)                  | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥ | DCNUCC(46) |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)                 | ≥ 4.100E+00 | ≥ 2.000E+03 | ≥ ---       | ≥ |            |
| DCNUCU(46,1)                                        |             |             |             |   |            |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)                 | ≥ 4.100E+00 | ≥ 2.000E+03 | ≥ ---       | ≥ |            |
| DCNUCU(46,2)                                        |             |             |             |   |            |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)                 | ≥ 4.100E+00 | ≥ 2.000E+03 | ≥ ---       | ≥ |            |
| DCNUCU(46,3)                                        |             |             |             |   |            |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)                 | ≥ 0.000E+00 | ≥ 2.000E+03 | ≥ ---       | ≥ |            |
| DCNUCU(46,4)                                        |             |             |             |   |            |
| DCLR ≥ Saturated zone (cm**3/g)                     | ≥ 0.000E+00 | ≥ 2.000E+03 | ≥ ---       | ≥ | DCNUCS(46) |
| DCLR ≥ Sediment in surface water body (cm**3/g)     | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥ |            |
| DCNUCSWB(46)                                        |             |             |             |   |            |
| DCLR ≥ Agricultural area 1 (cm**3/g)                | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥ |            |
| DCNUCOF(46,1)                                       |             |             |             |   |            |
| DCLR ≥ Agricultural area 2 (cm**3/g)                | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥ |            |
| DCNUCOF(46,2)                                       |             |             |             |   |            |
| DCLR ≥ Agricultural area 3 (cm**3/g)                | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥ |            |
| DCNUCOF(46,3)                                       |             |             |             |   |            |
| DCLR ≥ Agricultural area 4 (cm**3/g)                | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥ |            |
| DCNUCOF(46,4)                                       |             |             |             |   |            |
| DCLR ≥ Offsite Dwelling (cm**3/g)                   | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥ |            |
| DCNUCDWE(46)                                        |             |             |             |   |            |



DCLR ≥ Leach rate (/yr) ≥ 0.000E+00 ≥ 0.000E+00 ≥ 4.537E-09 ≥ ALEACH(46)  
 DCLR ≥ Solubility constant ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used ≥ SOLUB0(46)  
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## Site-Specific Parameter Summary (continued)

| 0 ≥                                                                                                                                 | ≥ User      | ≥           | ≥ RESRAD | ≥            |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------|--------------|
| Parameter                                                                                                                           | Input       | Default     | computed | Name         |
| fffff~ffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff<br>fffff |             |             |          |              |
| DCLR ≥ Distribution coefficients for progeny Pu-244                                                                                 | ≥           | ≥           | ≥        | ≥            |
| DCLR ≥ Contaminated zone (cm**3/g)                                                                                                  | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---    | ≥ DCNUCC(47) |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)                                                                                                 | ≥ 4.100E+00 | ≥ 2.000E+03 | ≥ ---    | ≥            |
| DCNUCU(47,1)                                                                                                                        |             |             |          |              |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)                                                                                                 | ≥ 4.100E+00 | ≥ 2.000E+03 | ≥ ---    | ≥            |
| DCNUCU(47,2)                                                                                                                        |             |             |          |              |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)                                                                                                 | ≥ 4.100E+00 | ≥ 2.000E+03 | ≥ ---    | ≥            |
| DCNUCU(47,3)                                                                                                                        |             |             |          |              |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)                                                                                                 | ≥ 0.000E+00 | ≥ 2.000E+03 | ≥ ---    | ≥            |
| DCNUCU(47,4)                                                                                                                        |             |             |          |              |
| DCLR ≥ Saturated zone (cm**3/g)                                                                                                     | ≥ 0.000E+00 | ≥ 2.000E+03 | ≥ ---    | ≥ DCNUCS(47) |
| DCLR ≥ Sediment in surface water body (cm**3/g)                                                                                     | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---    | ≥            |
| DCNUCSWB(47)                                                                                                                        |             |             |          |              |
| DCLR ≥ Agricultural area 1 (cm**3/g)                                                                                                | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---    | ≥            |
| DCNUCOF(47,1)                                                                                                                       |             |             |          |              |
| DCLR ≥ Agricultural area 2 (cm**3/g)                                                                                                | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---    | ≥            |
| DCNUCOF(47,2)                                                                                                                       |             |             |          |              |
| DCLR ≥ Agricultural area 3 (cm**3/g)                                                                                                | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---    | ≥            |
| DCNUCOF(47,3)                                                                                                                       |             |             |          |              |

|                                                     |             |             |             |              |
|-----------------------------------------------------|-------------|-------------|-------------|--------------|
| DCLR ≥ Agricultural area 4 (cm**3/g)                | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥            |
| DCNUCOF(47,4)                                       |             |             |             |              |
| DCLR ≥ Offsite Dwelling (cm**3/g)                   | ≥ 7.100E+02 | ≥ 2.000E+03 | ≥ ---       | ≥            |
| DCNUCDWE(47)                                        |             |             |             |              |
| DCLR ≥ Leach rate (/yr)                             | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 4.537E-09 | ≥ ALEACH(47) |
| DCLR ≥ Solubility constant                          | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(47) |
| ≥                                                   | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Distribution coefficients for progeny Sm-147 | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Contaminated zone (cm**3/g)                  | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥ DCNUCC(53) |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)                 | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥            |
| DCNUCU(53,1)                                        |             |             |             |              |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)                 | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥            |
| DCNUCU(53,2)                                        |             |             |             |              |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)                 | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥            |
| DCNUCU(53,3)                                        |             |             |             |              |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)                 | ≥ 0.000E+00 | ≥ 8.250E+02 | ≥ ---       | ≥            |
| DCNUCU(53,4)                                        |             |             |             |              |
| DCLR ≥ Saturated zone (cm**3/g)                     | ≥ 0.000E+00 | ≥ 8.250E+02 | ≥ ---       | ≥ DCNUCS(53) |
| DCLR ≥ Sediment in surface water body (cm**3/g)     | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥            |
| DCNUCSWB(53)                                        |             |             |             |              |
| DCLR ≥ Agricultural area 1 (cm**3/g)                | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥            |
| DCNUCOF(53,1)                                       |             |             |             |              |
| DCLR ≥ Agricultural area 2 (cm**3/g)                | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥            |
| DCNUCOF(53,2)                                       |             |             |             |              |
| DCLR ≥ Agricultural area 3 (cm**3/g)                | ≥ 4.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥            |
| DCNUCOF(53,3)                                       |             |             |             |              |
| DCLR ≥ Agricultural area 4 (cm**3/g)                | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥            |
| DCNUCOF(53,4)                                       |             |             |             |              |
| DCLR ≥ Offsite Dwelling (cm**3/g)                   | ≥ 5.000E+01 | ≥ 8.250E+02 | ≥ ---       | ≥            |
| DCNUCDWE(53)                                        |             |             |             |              |
| DCLR ≥ Leach rate (/yr)                             | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 6.440E-08 | ≥ ALEACH(53) |
| DCLR ≥ Solubility constant                          | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(53) |
| ≥                                                   | ≥           | ≥           | ≥           | ≥            |

|                                                      |             |             |             |              |
|------------------------------------------------------|-------------|-------------|-------------|--------------|
| DCLR ≥ Distribution coefficients for progeny Te-125m | ≥           | ≥           | ≥           | ≥            |
| DCLR ≥ Contaminated zone (cm**3/g)                   | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥ DCNUCC(58) |
| DCLR ≥ Unsaturated zone 1 (cm**3/g)                  | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥            |
| DCNUCU(58,1)                                         |             |             |             |              |
| DCLR ≥ Unsaturated zone 2 (cm**3/g)                  | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥            |
| DCNUCU(58,2)                                         |             |             |             |              |
| DCLR ≥ Unsaturated zone 3 (cm**3/g)                  | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥            |
| DCNUCU(58,3)                                         |             |             |             |              |
| DCLR ≥ Unsaturated zone 4 (cm**3/g)                  | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥            |
| DCNUCU(58,4)                                         |             |             |             |              |
| DCLR ≥ Saturated zone (cm**3/g)                      | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥ DCNUCS(58) |
| DCLR ≥ Sediment in surface water body (cm**3/g)      | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥            |
| DCNUCSWB(58)                                         |             |             |             |              |
| DCLR ≥ Agricultural area 1 (cm**3/g)                 | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥            |
| DCNUCOF(58,1)                                        |             |             |             |              |
| DCLR ≥ Agricultural area 2 (cm**3/g)                 | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥            |
| DCNUCOF(58,2)                                        |             |             |             |              |
| DCLR ≥ Agricultural area 3 (cm**3/g)                 | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥            |
| DCNUCOF(58,3)                                        |             |             |             |              |
| DCLR ≥ Agricultural area 4 (cm**3/g)                 | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥            |
| DCNUCOF(58,4)                                        |             |             |             |              |
| DCLR ≥ Offsite Dwelling (cm**3/g)                    | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---       | ≥            |
| DCNUCDWE(58)                                         |             |             |             |              |
| DCLR ≥ Leach rate (/yr)                              | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ 1.588E-04 | ≥ ALEACH(58) |
| DCLR ≥ Solubility constant                           | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ not used  | ≥ SOLUB0(58) |

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## Site-Specific Parameter Summary (continued)

|           |   |        |   |          |   |
|-----------|---|--------|---|----------|---|
| 0         | ≥ | ≥ User | ≥ | ≥ RESRAD | ≥ |
| Parameter |   |        |   |          |   |

| Menu ≥        | Parameter                                            | ≥           | Input       | ≥           | Default     | ≥           | computed    | ≥           | Name       |
|---------------|------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|
| fffff~fffff   | fffff~fffff                                          | fffff~fffff | fffff~fffff | fffff~fffff | fffff~fffff | fffff~fffff | fffff~fffff | fffff~fffff | fffff      |
| DCLR ≥        | Distribution coefficients for progeny Th-229         | ≥           |             | ≥           |             | ≥           |             | ≥           |            |
| DCLR ≥        | Contaminated zone (cm**3/g)                          | ≥           | 1.000E+04   | ≥           | 6.000E+04   | ≥           | ---         | ≥           | DCNUCC(60) |
| DCLR ≥        | Unsaturated zone 1 (cm**3/g)                         | ≥           | 1.000E+04   | ≥           | 6.000E+04   | ≥           | ---         | ≥           |            |
| DCNUCU(60,1)  |                                                      |             |             |             |             |             |             |             |            |
| DCLR ≥        | Unsaturated zone 2 (cm**3/g)                         | ≥           | 1.000E+04   | ≥           | 6.000E+04   | ≥           | ---         | ≥           |            |
| DCNUCU(60,2)  |                                                      |             |             |             |             |             |             |             |            |
| DCLR ≥        | Unsaturated zone 3 (cm**3/g)                         | ≥           | 1.000E+04   | ≥           | 6.000E+04   | ≥           | ---         | ≥           |            |
| DCNUCU(60,3)  |                                                      |             |             |             |             |             |             |             |            |
| DCLR ≥        | Unsaturated zone 4 (cm**3/g)                         | ≥           | 0.000E+00   | ≥           | 6.000E+04   | ≥           | ---         | ≥           |            |
| DCNUCU(60,4)  |                                                      |             |             |             |             |             |             |             |            |
| DCLR ≥        | Saturated zone (cm**3/g)                             | ≥           | 0.000E+00   | ≥           | 6.000E+04   | ≥           | ---         | ≥           | DCNUCS(60) |
| DCLR ≥        | Sediment in surface water body (cm**3/g)             | ≥           | 1.000E+04   | ≥           | 6.000E+04   | ≥           | ---         | ≥           |            |
| DCNUCSWB(60)  |                                                      |             |             |             |             |             |             |             |            |
| DCLR ≥        | Agricultural area 1 (cm**3/g)                        | ≥           | 1.000E+04   | ≥           | 6.000E+04   | ≥           | ---         | ≥           |            |
| DCNUCOF(60,1) |                                                      |             |             |             |             |             |             |             |            |
| DCLR ≥        | Agricultural area 2 (cm**3/g)                        | ≥           | 1.000E+04   | ≥           | 6.000E+04   | ≥           | ---         | ≥           |            |
| DCNUCOF(60,2) |                                                      |             |             |             |             |             |             |             |            |
| DCLR ≥        | Agricultural area 3 (cm**3/g)                        | ≥           | 1.000E+04   | ≥           | 6.000E+04   | ≥           | ---         | ≥           |            |
| DCNUCOF(60,3) |                                                      |             |             |             |             |             |             |             |            |
| DCLR ≥        | Agricultural area 4 (cm**3/g)                        | ≥           | 1.000E+04   | ≥           | 6.000E+04   | ≥           | ---         | ≥           |            |
| DCNUCOF(60,4) |                                                      |             |             |             |             |             |             |             |            |
| DCLR ≥        | Offsite Dwelling (cm**3/g)                           | ≥           | 1.000E+04   | ≥           | 6.000E+04   | ≥           | ---         | ≥           |            |
| DCNUCDWE(60)  |                                                      |             |             |             |             |             |             |             |            |
| DCLR ≥        | Leach rate (/yr)                                     | ≥           | 0.000E+00   | ≥           | 0.000E+00   | ≥           | 3.221E-10   | ≥           | ALEACH(60) |
| DCLR ≥        | Solubility constant                                  | ≥           | 0.000E+00   | ≥           | 0.000E+00   | ≥           | not used    | ≥           | SOLUB0(60) |
| ≥             |                                                      | ≥           |             | ≥           |             | ≥           |             | ≥           |            |
| LYOT ≥        | Bearing of X axis (clockwise angle N-->X in degrees) | ≥           | 9.000E+01   | ≥           | 9.000E+01   | ≥           | ---         | ≥           | DNXBEARING |
| LYOT ≥        | Length of Primary contamination in X Direction       | ≥           | 1.750E+02   | ≥           | 1.000E+02   | ≥           | ---         | ≥           |            |
| SOURCEXY(1)   |                                                      |             |             |             |             |             |             |             |            |

|                                                                      |                           |     |   |
|----------------------------------------------------------------------|---------------------------|-----|---|
| LYOT ≥ Length of Primary contamination in Y Direction<br>SOURCEXY(2) | ≥ 1.200E+02 ≥ 1.000E+02 ≥ | --- | ≥ |
| LYOT ≥ Smaller X coordinate of Agricultural Area 1<br>AGRIX(1,1)     | ≥ 0.000E+00 ≥ 3.438E+01 ≥ | --- | ≥ |
| LYOT ≥ Larger X coordinate of Agricultural Area 1<br>AGRIX(2,1)      | ≥ 1.750E+02 ≥ 6.563E+01 ≥ | --- | ≥ |
| LYOT ≥ Smaller Y coordinate of Agricultural Area 1<br>AGRIX(3,1)     | ≥ 0.000E+00 ≥ 2.340E+02 ≥ | --- | ≥ |
| LYOT ≥ Larger Y coordinate of Agricultural Area 1<br>AGRIX(4,1)      | ≥ 1.200E+02 ≥ 2.660E+02 ≥ | --- | ≥ |
| LYOT ≥ Smaller X coordinate of Agricultural Area 2<br>AGRIX(1,2)     | ≥ 0.000E+00 ≥ 3.438E+01 ≥ | --- | ≥ |
| LYOT ≥ Larger X coordinate of Agricultural Area 2<br>AGRIX(2,2)      | ≥ 1.750E+02 ≥ 6.563E+01 ≥ | --- | ≥ |
| LYOT ≥ Smaller Y coordinate of Agricultural Area 2<br>AGRIX(3,2)     | ≥ 0.000E+00 ≥ 2.680E+02 ≥ | --- | ≥ |
| LYOT ≥ Larger Y coordinate of Agricultural Area 2<br>AGRIX(4,2)      | ≥ 1.200E+02 ≥ 3.000E+02 ≥ | --- | ≥ |
| LYOT ≥ Smaller X coordinate of Agricultural Area 3<br>AGRIX(1,3)     | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| LYOT ≥ Larger X coordinate of Agricultural Area 3<br>AGRIX(2,3)      | ≥ 1.750E+02 ≥ 1.000E+02 ≥ | --- | ≥ |
| LYOT ≥ Smaller Y coordinate of Agricultural Area 3<br>AGRIX(3,3)     | ≥ 0.000E+00 ≥ 4.500E+02 ≥ | --- | ≥ |
| LYOT ≥ Larger Y coordinate of Agricultural Area 3<br>AGRIX(4,3)      | ≥ 1.200E+02 ≥ 5.500E+02 ≥ | --- | ≥ |
| LYOT ≥ Smaller X coordinate of Agricultural Area 4<br>AGRIX(1,4)     | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| LYOT ≥ Larger X coordinate of Agricultural Area 4<br>AGRIX(2,4)      | ≥ 1.750E+02 ≥ 1.000E+02 ≥ | --- | ≥ |
| LYOT ≥ Smaller Y coordinate of Agricultural Area 4<br>AGRIX(3,4)     | ≥ 0.000E+00 ≥ 3.000E+02 ≥ | --- | ≥ |
| LYOT ≥ Larger Y coordinate of Agricultural Area 4                    | ≥ 1.200E+02 ≥ 4.000E+02 ≥ | --- | ≥ |

AGRIXY(4,4)

|                                                         |             |              |       |              |
|---------------------------------------------------------|-------------|--------------|-------|--------------|
| LYOT ≥ Smaller X coordinate of Dwelling Area            | ≥ 0.000E+00 | ≥ 3.438E+01  | ≥ --- | ≥ DWELLXY(1) |
| LYOT ≥ Larger X coordinate of Dwelling Area             | ≥ 1.750E+02 | ≥ 6.563E+01  | ≥ --- | ≥ DWELLXY(2) |
| LYOT ≥ Smaller Y coordinate of Dwelling Area            | ≥ 0.000E+00 | ≥ 1.340E+02  | ≥ --- | ≥ DWELLXY(3) |
| LYOT ≥ Larger Y coordinate of Dwelling Area             | ≥ 1.200E+02 | ≥ 1.660E+02  | ≥ --- | ≥ DWELLXY(4) |
| LYOT ≥ Smaller X coordinate of Surface water body       | ≥ 1.806E+03 | ≥ -1.000E+02 | ≥ --- | ≥ SWXY(1)    |
| LYOT ≥ Larger X coordinate of Surface water body        | ≥ 1.858E+03 | ≥ 2.000E+02  | ≥ --- | ≥ SWXY(2)    |
| LYOT ≥ Smaller Y coordinate of Surface water body       | ≥ 1.620E+03 | ≥ 5.500E+02  | ≥ --- | ≥ SWXY(3)    |
| LYOT ≥ Larger Y coordinate of Surface water body        | ≥ 1.681E+03 | ≥ 8.500E+02  | ≥ --- | ≥ SWXY(4)    |
| ≥                                                       | ≥           | ≥            | ≥     |              |
| STOR ≥ Storage times of contaminated foodstuffs (days): | ≥           | ≥            | ≥     |              |
| STOR ≥ Surface water                                    | ≥ 1.000E+00 | ≥ 1.000E+00  | ≥ --- | ≥ STOR_T(1)  |
| STOR ≥ Well water                                       | ≥ 1.000E+00 | ≥ 1.000E+00  | ≥ --- | ≥ STOR_T(2)  |

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## Site-Specific Parameter Summary (continued)

| 0         | ≥                                       | ≥ User      | ≥           | ≥ RESRAD   | ≥            |
|-----------|-----------------------------------------|-------------|-------------|------------|--------------|
| Parameter |                                         |             |             |            |              |
| Menu ≥    | Parameter                               | ≥ Input     | ≥ Default   | ≥ computed | ≥ Name       |
| fffff~    | fffff~                                  | fffff~      | fffff~      | fffff~     | fffff~       |
| fffff     | fffff                                   | fffff       | fffff       | fffff      | fffff        |
| STOR ≥    | Fruits, non-leafy vegetables, and grain | ≥ 1.400E+01 | ≥ 1.400E+01 | ≥ ---      | ≥ STOR_T(3)  |
| STOR ≥    | Leafy vegetables                        | ≥ 1.000E+00 | ≥ 1.000E+00 | ≥ ---      | ≥ STOR_T(4)  |
| STOR ≥    | Livestock feed - pasture or silage      | ≥ 1.000E+00 | ≥ 1.000E+00 | ≥ ---      | ≥ STOR_T(5)  |
| STOR ≥    | Livestock feed - grain                  | ≥ 4.500E+01 | ≥ 4.500E+01 | ≥ ---      | ≥ STOR_T(6)  |
| STOR ≥    | Meat and poultry                        | ≥ 2.000E+01 | ≥ 2.000E+01 | ≥ ---      | ≥ STOR_T(7)  |
| STOR ≥    | Milk                                    | ≥ 1.000E+00 | ≥ 1.000E+00 | ≥ ---      | ≥ STOR_T(8)  |
| STOR ≥    | Fish                                    | ≥ 7.000E+00 | ≥ 7.000E+00 | ≥ ---      | ≥ STOR_T(9)  |
| STOR ≥    | Crustacea and mollusks                  | ≥ 7.000E+00 | ≥ 7.000E+00 | ≥ ---      | ≥ STOR_T(10) |

|                                                             |             |             |       |              |
|-------------------------------------------------------------|-------------|-------------|-------|--------------|
| TIME ≥ Times at which dose/risk are to be reported (yr)     | ≥ 1.000E+00 | ≥ 1.000E+00 | ≥ --- | ≥ T(2)       |
| TIME ≥ Times at which dose/risk are to be reported (yr)     | ≥ 6.000E+00 | ≥ 3.000E+00 | ≥ --- | ≥ T(3)       |
| TIME ≥ Times at which dose/risk are to be reported (yr)     | ≥ 1.200E+01 | ≥ 6.000E+00 | ≥ --- | ≥ T(4)       |
| TIME ≥ Times at which dose/risk are to be reported (yr)     | ≥ 3.000E+01 | ≥ 1.200E+01 | ≥ --- | ≥ T(5)       |
| TIME ≥ Times at which dose/risk are to be reported (yr)     | ≥ 1.000E+02 | ≥ 3.000E+01 | ≥ --- | ≥ T(6)       |
| TIME ≥ Times at which dose/risk are to be reported (yr)     | ≥ 3.000E+02 | ≥ 7.500E+01 | ≥ --- | ≥ T(7)       |
| TIME ≥ Times at which dose/risk are to be reported (yr)     | ≥ 1.000E+03 | ≥ 1.750E+02 | ≥ --- | ≥ T(8)       |
| TIME ≥ Times at which dose/risk are to be reported (yr)     | ≥ not used  | ≥ 4.200E+02 | ≥ --- | ≥ T(9)       |
| TIME ≥ Times at which dose/risk are to be reported (yr)     | ≥ not used  | ≥ 9.700E+02 | ≥ --- | ≥ T(10)      |
| SITE ≥ Precipitation (m/yr)                                 | ≥ 2.900E-01 | ≥ 1.000E+00 | ≥ --- | ≥ PRECIP     |
| SITE ≥ Average annual wind speed (m/sec)                    | ≥ 3.179E+00 | ≥ 2.000E+00 | ≥ --- | ≥ WIND       |
| PRCZ ≥ Area of primary contamination (m**2)                 | ≥ 2.100E+04 | ≥ 1.000E+04 | ≥ --- | ≥ AREA       |
| PRCZ ≥ Length parallel to aquifer flow (m)                  | ≥ 1.750E+02 | ≥ 1.000E+02 | ≥ --- | ≥ LCZPAQ     |
| PRCZ ≥ Depth of soil mixing layer (m)                       | ≥ 1.500E-01 | ≥ 1.500E-01 | ≥ --- | ≥ DM         |
| PRCZ ≥ Deposition velocity of dust (m)                      | ≥ 1.000E-03 | ≥ 1.000E-03 | ≥ --- | ≥            |
| DEPVEL_DUST                                                 |             |             |       |              |
| PRCZ ≥ Irrigation (m/yr)                                    | ≥ 0.000E+00 | ≥ 2.000E-01 | ≥ --- | ≥ RI         |
| PRCZ ≥ Evapotranspiration coefficient                       | ≥ 9.990E-01 | ≥ 5.000E-01 | ≥ --- | ≥ EVAPTR     |
| PRCZ ≥ Runoff coefficient                                   | ≥ 9.000E-01 | ≥ 2.000E-01 | ≥ --- | ≥ RUNOFF     |
| PRCZ ≥ Rainfall Erosion Index                               | ≥ 2.000E+01 | ≥ 1.600E+02 | ≥ --- | ≥ RAINEROS   |
| PRCZ ≥ Slope-length-steepness factor of prim. contamination | ≥ 3.250E+00 | ≥ 4.000E-01 | ≥ --- | ≥            |
| SLPLENSTPPC                                                 |             |             |       |              |
| PRCZ ≥ Cropping-management factor of primary contamination  | ≥ 3.000E-03 | ≥ 3.000E-03 | ≥ --- | ≥ CRPMANGPC  |
| PRCZ ≥ Conservation practice factor of prim. contamination  | ≥ 1.000E+00 | ≥ 1.000E+00 | ≥ --- | ≥ CONVPRACPC |
| PRCZ ≥ Thickness of contaminated zone (m)                   | ≥ 7.260E+00 | ≥ 2.000E+00 | ≥ --- | ≥ THICK0     |
| PRCZ ≥ Contaminated zone total porosity                     | ≥ 4.100E-01 | ≥ 4.000E-01 | ≥ --- | ≥ TPCZ       |
| PRCZ ≥ Computed erosion rate of contaminated zone (m/yr)    | ≥ 1.409E-05 | ≥ 1.147E-05 | ≥ --- | ≥ VCZ        |
| PRCZ ≥ Density of contaminated zone (g/cm**3)               | ≥ 1.240E+00 | ≥ 1.500E+00 | ≥ --- | ≥ DENSCH     |
| PRCZ ≥ Soil erodibility factor of contaminated zone         | ≥ 4.000E-01 | ≥ 4.000E-01 | ≥ --- | ≥            |
| ERODIBILITYCZ                                               |             |             |       |              |

|                                                        |             |             |       |           |
|--------------------------------------------------------|-------------|-------------|-------|-----------|
| PRCZ ≥ Contaminated zone field capacity                | ≥ 8.800E-03 | ≥ 3.000E-01 | ≥ --- | ≥ FCCZ    |
| PRCZ ≥ Contaminated zone b parameter                   | ≥ 1.000E+00 | ≥ 5.300E+00 | ≥ --- | ≥ BCZ     |
| PRCZ ≥ Contaminated zone hydraulic conductivity (m/yr) | ≥ 3.340E+01 | ≥ 1.000E+01 | ≥ --- | ≥ HCCZ    |
| PRCZ ≥ Cover depth (m)                                 | ≥ 1.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ COVER0  |
| PRCZ ≥ Total porosity of the cover material            | ≥ not used  | ≥ 4.000E-01 | ≥ --- | ≥ TPCV    |
| PRCZ ≥ Computed erosion rate of cover material (m/yr)  | ≥ 1.248E-05 | ≥ 1.147E-05 | ≥ --- | ≥ VCV     |
| PRCZ ≥ Density of cover material (g/cm**3)             | ≥ 1.400E+00 | ≥ 1.500E+00 | ≥ --- | ≥ DENS CV |
| PRCZ ≥ Soil erodibility factor of cover                | ≥ 4.000E-01 | ≥ 4.000E-01 | ≥ --- | ≥         |

## ERODIBILITY CV

|                                                       |            |             |       |          |
|-------------------------------------------------------|------------|-------------|-------|----------|
| PRCZ ≥ Volumetric water content of the cover material | ≥ not used | ≥ 5.000E-02 | ≥ --- | ≥ PH20CV |
|-------------------------------------------------------|------------|-------------|-------|----------|

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## Site-Specific Parameter Summary (continued)

| 0                                                                                                                   | ≥         | ≥ User      | ≥           | ≥ RESRAD   | ≥            |
|---------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|--------------|
| Parameter                                                                                                           |           |             |             |            |              |
| Menu ≥                                                                                                              | Parameter | ≥ Input     | ≥ Default   | ≥ computed | ≥ Name       |
| fffff~ffffffffffffffffffffffffffffffffffffffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff<br>fffff |           |             |             |            |              |
| AGRI ≥ Areal extent of Agricultural Area 1 (m**2)                                                                   |           | ≥ 2.100E+04 | ≥ 1.000E+03 | ≥ ---      | ≥ AREA0(1)   |
| AGRI ≥ Fraction of Agri. Area 1 directly over the c.z.                                                              |           | ≥ not used  | ≥ 0.000E+00 | ≥ ---      | ≥            |
| FAREA_PLANT(1)                                                                                                      |           |             |             |            |              |
| AGRI ≥ Evapotranspiration coefficient in Agri. Area 1                                                               |           | ≥ 9.990E-01 | ≥ 5.000E-01 | ≥ ---      | ≥ EVAPTRN(1) |
| AGRI ≥ Runoff coefficient in Agricultural Area 1                                                                    |           | ≥ 9.000E-01 | ≥ 2.000E-01 | ≥ ---      | ≥ RUNOF(1)   |
| AGRI ≥ Mixing depth/plow layer of Agricultural Area 1                                                               |           | ≥ 1.500E-01 | ≥ 1.500E-01 | ≥ ---      | ≥            |
| DPTHMIXG(1)                                                                                                         |           |             |             |            |              |
| AGRI ≥ Water filled porosity of soil in Agri. Area 1                                                                |           | ≥ 3.000E-01 | ≥ 3.000E-01 | ≥ ---      | ≥ TMOF(1)    |
| AGRI ≥ Computed erosion rate of soil in Agri. Area 1                                                                |           | ≥ 1.248E-05 | ≥ 1.147E-05 | ≥ ---      | ≥ EROSN(1)   |
| AGRI ≥ Dry Bulk Density of soil in Agricultural Area 1                                                              |           | ≥ 1.400E+00 | ≥ 1.500E+00 | ≥ ---      | ≥ RHOB(1)    |
| AGRI ≥ Soil erodibility factor of Agricultural Area 1                                                               |           | ≥ 4.000E-01 | ≥ 4.000E-01 | ≥ ---      | ≥            |



## ERODIBILITY(1)

AGRI ≥ Slope-length-steepness factor, Agricultural Area 1 ≥ 3.250E+00 ≥ 4.000E-01 ≥ --- ≥

## SLPLENSTP(1)

AGRI ≥ Cropping-management factor of Agricultural Area 1 ≥ 3.000E-03 ≥ 3.000E-03 ≥ --- ≥ CRPMANG(1)

AGRI ≥ Conservation practice factor of Agricultural Area 1 ≥ 1.000E+00 ≥ 1.000E+00 ≥ --- ≥

## CONVPAC(1)

AGRI ≥ Areal extent of Agricultural Area 2 (m\*\*2) ≥ 2.100E+04 ≥ 1.000E+03 ≥ --- ≥ AREA0(2)

AGRI ≥ Fraction of Agri. Area 2 directly over the c.z. ≥ not used ≥ 0.000E+00 ≥ --- ≥

## FAREA\_PLANT(2)

AGRI ≥ Evapotranspiration coefficient in Agri. Area 2 ≥ 9.990E-01 ≥ 5.000E-01 ≥ --- ≥ EVAPTRN(2)

AGRI ≥ Runoff coefficient in Agricultural Area 2 ≥ 9.000E-01 ≥ 2.000E-01 ≥ --- ≥ RUNOF(2)

AGRI ≥ Mixing depth/plow layer of Agricultural Area 2 ≥ 1.500E-01 ≥ 1.500E-01 ≥ --- ≥

## DPTHMIXG(2)

AGRI ≥ Water filled porosity of soil in Agri. Area 2 ≥ 3.000E-01 ≥ 3.000E-01 ≥ --- ≥ TMOF(2)

AGRI ≥ Computed erosion rate of soil in Agri. Area 2 ≥ 1.248E-05 ≥ 1.147E-05 ≥ --- ≥ EROSN(2)

AGRI ≥ Dry Bulk Density of soil in Agricultural Area 2 ≥ 1.400E+00 ≥ 1.500E+00 ≥ --- ≥ RHOB(2)

AGRI ≥ Soil erodibility factor of Agricultural Area 2 ≥ 4.000E-01 ≥ 4.000E-01 ≥ --- ≥

## ERODIBILITY(2)

AGRI ≥ Slope-length-steepness factor, Agricultural Area 2 ≥ 3.250E+00 ≥ 4.000E-01 ≥ --- ≥

## SLPLENSTP(2)

AGRI ≥ Cropping-management factor of Agricultural Area 2 ≥ 3.000E-03 ≥ 3.000E-03 ≥ --- ≥ CRPMANG(2)

AGRI ≥ Conservation practice factor of Agricultural Area 2 ≥ 1.000E+00 ≥ 1.000E+00 ≥ --- ≥

## CONVPAC(2)

AGRI ≥ Areal extent of Agricultural Area 3 (m\*\*2) ≥ 2.100E+04 ≥ 1.000E+04 ≥ --- ≥ AREA0(3)

AGRI ≥ Fraction of Agri. Area 3 directly over the c.z. ≥ not used ≥ 0.000E+00 ≥ --- ≥

## FAREA\_PLANT(3)

AGRI ≥ Evapotranspiration coefficient in Agri. Area 3 ≥ 9.990E-01 ≥ 5.000E-01 ≥ --- ≥ EVAPTRN(3)

AGRI ≥ Runoff coefficient in Agricultural Area 3 ≥ 9.000E-01 ≥ 2.000E-01 ≥ --- ≥ RUNOF(3)

AGRI ≥ Mixing depth/plow layer of Agricultural Area 3 ≥ 1.500E-01 ≥ 1.500E-01 ≥ --- ≥

## DPTHMIXG(3)

AGRI ≥ Water filled porosity of soil in Agri. Area 3 ≥ 3.000E-01 ≥ 3.000E-01 ≥ --- ≥ TMOF(3)

AGRI ≥ Computed erosion rate of soil in Agri. Area 3 ≥ 1.248E-05 ≥ 1.147E-05 ≥ --- ≥ EROSN(3)

AGRI ≥ Dry Bulk Density of soil in Agricultural Area 3 ≥ 1.400E+00 ≥ 1.500E+00 ≥ --- ≥ RHOB(3)

| Site-Specific Parameter Summary (continued) |      |           |       |         |          |        |
|---------------------------------------------|------|-----------|-------|---------|----------|--------|
| Parameter                                   | Menu | Parameter | Input | Default | computed | Name   |
| 0                                           | ≥    |           | ≥     | User    | ≥        | RESRAD |

fffff

|                                                             |             |             |   |     |              |
|-------------------------------------------------------------|-------------|-------------|---|-----|--------------|
| AGRI ≥ Conservation practice factor of Agricultural Area 4  | ≥ 1.000E+00 | ≥ 1.000E+00 | ≥ | --- | ≥            |
| CONVPRAC(4)                                                 |             |             |   |     |              |
| DWEL ≥ Areal extent of Offsite dwelling site (m**2)         | ≥ 2.100E+04 | ≥ 1.000E+03 | ≥ | --- | ≥ AREAODWELL |
| DWEL ≥ Evapotranspiration coefficient in dwelling (Off)site | ≥ 9.990E-01 | ≥ 5.000E-01 | ≥ | --- | ≥            |
| EVAPTRNDWELL                                                |             |             |   |     |              |
| DWEL ≥ Runoff coefficient in Offsite dwelling site          | ≥ 9.000E-01 | ≥ 2.000E-01 | ≥ | --- | ≥ RUNOFDWELL |
| DWEL ≥ Mixing depth of Offsite dwelling site                | ≥ 1.500E-01 | ≥ 1.500E-01 | ≥ | --- | ≥            |
| DPTHMIXGDWELL                                               |             |             |   |     |              |
| DWEL ≥ Water filled porosity of soil in Offsite Dwelling    | ≥ 3.000E-01 | ≥ 3.000E-01 | ≥ | --- | ≥ TMOFDWELL  |
| DWEL ≥ Computed erosion rate of soil in Offsite Dwelling    | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ EROSNDWELL |
| DWEL ≥ Dry Bulk Density of soil in Offsite dwelling site    | ≥ 1.400E+00 | ≥ 1.500E+00 | ≥ | --- | ≥ RHOBWDWELL |
| DWEL ≥ Soil erodibility factor of soil in Dwelling site     | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥            |
| ERODIBILITYDWELL                                            |             |             |   |     |              |
| DWEL ≥ Slope-length-steepness factor of Dwelling site       | ≥ 3.250E+00 | ≥ 4.000E-01 | ≥ | --- | ≥            |
| SLPLENSTPDWELL                                              |             |             |   |     |              |
| DWEL ≥ Cropping-management factor of Dwelling site          | ≥ 3.000E-03 | ≥ 3.000E-03 | ≥ | --- | ≥            |
| CRPMANGDWELL                                                |             |             |   |     |              |
| DWEL ≥ Conservation practice factor of Offsite Dwelling sit | ≥ 1.000E+00 | ≥ 1.000E+00 | ≥ | --- | ≥            |
| CONVPRACDWELL                                               |             |             |   |     |              |
| AIRT ≥ Dispersion Coefficients; 1 = Pasquill-Gifford        | ≥ 1         | ≥ 1         | ≥ | --- | ≥ IDISPMOD   |
| AIRT ≥ Population zone; 1 = Rural                           | ≥ 1         | ≥ 1         | ≥ | --- | ≥ IZONE      |
| AIRT ≥ Release height, (m)                                  | ≥ 1.000E-01 | ≥ 1.000E+00 | ≥ | --- | ≥ AIRRELHT   |
| AIRT ≥ Heat flux for buoyant plume (cal/s),                 | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ HEATFLX    |
| AIRT ≥ Anemometer height, (m)                               | ≥ 1.200E+01 | ≥ 1.000E+01 | ≥ | --- | ≥ ANH        |
| AIRT ≥ Absolute temperature (Kelvin)                        | ≥ 2.820E+02 | ≥ 2.850E+02 | ≥ | --- | ≥ TABK       |
| AIRT ≥ AM atmospheric mixing height (m)                     | ≥ 1.600E+03 | ≥ 4.000E+02 | ≥ | --- | ≥ AMIX       |
| AIRT ≥ PM atmospheric mixing height (m)                     | ≥ 1.600E+03 | ≥ 1.600E+03 | ≥ | --- | ≥ PMIX       |
| AIRT ≥ Elevation of Agricultural Area 1 above primary cont. | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥            |
| AGRIELEV(1)                                                 |             |             |   |     |              |
| AIRT ≥ Elevation of Agricultural Area 2 above primary cont. | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥            |

AGRIELEV(2)

AIRT ≥ Elevation of Agricultural Area 3 above primary cont. ≥ 0.000E+00 ≥ 0.000E+00 ≥ --- ≥

AGRIELEV(3)

AIRT ≥ Elevation of Agricultural Area 4 above primary cont. ≥ 0.000E+00 ≥ 0.000E+00 ≥ --- ≥

AGRIELEV(4)

AIRT ≥ Elevation of Dwelling Site relative to primary cont. ≥ 0.000E+00 ≥ 0.000E+00 ≥ --- ≥ DWELLELEV

AIRT ≥ Elevation of Surf.Wtr body relative to primary cont. ≥ 0.000E+00 ≥ 0.000E+00 ≥ --- ≥ SWELEV

≥ ≥ ≥ ≥

AIRT ≥ Joint frequency Meteorological data: ≥ ≥ ≥ ≥

AIRT ≥ Upper limit for windspeed class 1 (m/s) ≥ 8.900E-01 ≥ 8.900E-01 ≥ --- ≥

WINDSPEED(1)

AIRT ≥ Upper limit for windspeed class 2 (m/s) ≥ 2.460E+00 ≥ 2.460E+00 ≥ --- ≥

WINDSPEED(2)

AIRT ≥ Upper limit for windspeed class 3 (m/s) ≥ 4.470E+00 ≥ 4.470E+00 ≥ --- ≥

WINDSPEED(3)

AIRT ≥ Upper limit for windspeed class 4 (m/s) ≥ 6.930E+00 ≥ 6.930E+00 ≥ --- ≥

WINDSPEED(4)

AIRT ≥ Upper limit for windspeed class 5 (m/s) ≥ 9.610E+00 ≥ 9.610E+00 ≥ --- ≥

WINDSPEED(5)

AIRT ≥ Upper limit for windspeed class 6 (m/s) ≥ 1.252E+01 ≥ 1.252E+01 ≥ --- ≥

WINDSPEED(6)

≥ ≥ ≥ ≥

AIRT ≥ Joint Frequency in N Sector ≥ ≥ ≥ ≥

AIRT ≥ for wind speed class 1 and stability class A ≥ 1.320E-03 ≥ 1.000E+00 ≥ --- ≥

DFREQ(1,1,1)

AIRT ≥ for wind speed class 1 and stability class B ≥ 3.100E-04 ≥ 0.000E+00 ≥ --- ≥

DFREQ(1,2,1)

AIRT ≥ for wind speed class 1 and stability class C ≥ 6.900E-04 ≥ 0.000E+00 ≥ --- ≥

DFREQ(1,3,1)

AIRT ≥ for wind speed class 1 and stability class D ≥ 4.320E-03 ≥ 0.000E+00 ≥ --- ≥

DFREQ(1,4,1)

AIRT ≥ for wind speed class 1 and stability class E ≥ 1.530E-03 ≥ 0.000E+00 ≥ --- ≥

DFREQ(1,5,1)

AIRT ≥ for wind speed class 1 and stability class F ≥ 2.400E-03 ≥ 0.000E+00 ≥ --- ≥  
 DFREQ(1,6,1)  
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## Site-Specific Parameter Summary (continued)

| 0 ≥                                                                                                                                             | ≥ User      | ≥           | ≥ RESRAD | ≥    |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------|------|
| Parameter                                                                                                                                       | Input       | Default     | computed | Name |
| Menu ≥                                                                                                                                          | Parameter   | ≥           | ≥        | ≥    |
| fffff~ffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff |             |             |          |      |
| AIRT ≥ Joint Frequency in N Sector                                                                                                              | ≥           | ≥           | ≥        | ≥    |
| AIRT ≥ for wind speed class 2 and stability class A                                                                                             | ≥ 1.190E-03 | ≥ 0.000E+00 | ≥ ---    | ≥    |
| DFREQ(2,1,1)                                                                                                                                    |             |             |          |      |
| AIRT ≥ for wind speed class 2 and stability class B                                                                                             | ≥ 1.290E-03 | ≥ 0.000E+00 | ≥ ---    | ≥    |
| DFREQ(2,2,1)                                                                                                                                    |             |             |          |      |
| AIRT ≥ for wind speed class 2 and stability class C                                                                                             | ≥ 5.400E-03 | ≥ 0.000E+00 | ≥ ---    | ≥    |
| DFREQ(2,3,1)                                                                                                                                    |             |             |          |      |
| AIRT ≥ for wind speed class 2 and stability class D                                                                                             | ≥ 2.157E-02 | ≥ 0.000E+00 | ≥ ---    | ≥    |
| DFREQ(2,4,1)                                                                                                                                    |             |             |          |      |
| AIRT ≥ for wind speed class 2 and stability class E                                                                                             | ≥ 7.290E-03 | ≥ 0.000E+00 | ≥ ---    | ≥    |
| DFREQ(2,5,1)                                                                                                                                    |             |             |          |      |
| AIRT ≥ for wind speed class 2 and stability class F                                                                                             | ≥ 1.560E-03 | ≥ 0.000E+00 | ≥ ---    | ≥    |
| DFREQ(2,6,1)                                                                                                                                    |             |             |          |      |
| ≥                                                                                                                                               | ≥           | ≥           | ≥        | ≥    |
| AIRT ≥ Joint Frequency in N Sector                                                                                                              | ≥           | ≥           | ≥        | ≥    |
| AIRT ≥ for wind speed class 3 and stability class A                                                                                             | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---    | ≥    |
| DFREQ(3,1,1)                                                                                                                                    |             |             |          |      |
| AIRT ≥ for wind speed class 3 and stability class B                                                                                             | ≥ 1.000E-05 | ≥ 0.000E+00 | ≥ ---    | ≥    |
| DFREQ(3,2,1)                                                                                                                                    |             |             |          |      |

|                                                                     |                           |     |   |
|---------------------------------------------------------------------|---------------------------|-----|---|
| AIRT ≥ for wind speed class 3 and stability class C<br>DFREQ(3,3,1) | ≥ 1.200E-03 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class D<br>DFREQ(3,4,1) | ≥ 3.140E-02 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class E<br>DFREQ(3,5,1) | ≥ 1.800E-03 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class F<br>DFREQ(3,6,1) | ≥ 3.000E-05 ≥ 0.000E+00 ≥ | --- | ≥ |
| ≥                                                                   | ≥                         | ≥   | ≥ |
| AIRT ≥ Joint Frequency in N Sector                                  | ≥                         | ≥   | ≥ |
| AIRT ≥ for wind speed class 4 and stability class A<br>DFREQ(4,1,1) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class B<br>DFREQ(4,2,1) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class C<br>DFREQ(4,3,1) | ≥ 2.000E-05 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class D<br>DFREQ(4,4,1) | ≥ 8.450E-03 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class E<br>DFREQ(4,5,1) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class F<br>DFREQ(4,6,1) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| ≥                                                                   | ≥                         | ≥   | ≥ |
| AIRT ≥ Joint Frequency in N Sector                                  | ≥                         | ≥   | ≥ |
| AIRT ≥ for wind speed class 5 and stability class A<br>DFREQ(5,1,1) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class B<br>DFREQ(5,2,1) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class C<br>DFREQ(5,3,1) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class D<br>DFREQ(5,4,1) | ≥ 2.300E-04 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class E                 | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |

|                                                     |                    |                  |      |     |   |
|-----------------------------------------------------|--------------------|------------------|------|-----|---|
| DFREQ(5,5,1)                                        |                    |                  |      |     |   |
| AIRT ≥ for wind speed class 5 and stability class F | ≥ 0.000E+00        | ≥ 0.000E+00      | ≥    | --- | ≥ |
| DFREQ(5,6,1)                                        |                    |                  |      |     |   |
| ≥                                                   | ≥                  | ≥                | ≥    |     | ≥ |
| AIRT ≥ Joint Frequency in N Sector                  | ≥                  | ≥                | ≥    |     | ≥ |
| AIRT ≥ for wind speed class 6 and stability class A | ≥ 0.000E+00        | ≥ 0.000E+00      | ≥    | --- | ≥ |
| DFREQ(6,1,1)                                        |                    |                  |      |     |   |
| AIRT ≥ for wind speed class 6 and stability class B | ≥ 0.000E+00        | ≥ 0.000E+00      | ≥    | --- | ≥ |
| DFREQ(6,2,1)                                        |                    |                  |      |     |   |
| AIRT ≥ for wind speed class 6 and stability class C | ≥ 0.000E+00        | ≥ 0.000E+00      | ≥    | --- | ≥ |
| DFREQ(6,3,1)                                        |                    |                  |      |     |   |
| AIRT ≥ for wind speed class 6 and stability class D | ≥ 1.000E-05        | ≥ 0.000E+00      | ≥    | --- | ≥ |
| DFREQ(6,4,1)                                        |                    |                  |      |     |   |
| AIRT ≥ for wind speed class 6 and stability class E | ≥ 0.000E+00        | ≥ 0.000E+00      | ≥    | --- | ≥ |
| DFREQ(6,5,1)                                        |                    |                  |      |     |   |
| AIRT ≥ for wind speed class 6 and stability class F | ≥ 0.000E+00        | ≥ 0.000E+00      | ≥    | --- | ≥ |
| DFREQ(6,6,1)                                        |                    |                  |      |     |   |
| ≥                                                   | ≥                  | ≥                | ≥    |     | ≥ |
| AIRT ≥ Joint Frequency in NNE Sector                | ≥                  | ≥                | ≥    |     | ≥ |
| AIRT ≥ for wind speed class 1 and stability class A | ≥ 9.000E-04        | ≥ 0.000E+00      | ≥    | --- | ≥ |
| DFREQ(1,1,2)                                        |                    |                  |      |     |   |
| AIRT ≥ for wind speed class 1 and stability class B | ≥ 2.200E-04        | ≥ 0.000E+00      | ≥    | --- | ≥ |
| DFREQ(1,2,2)                                        |                    |                  |      |     |   |
| AIRT ≥ for wind speed class 1 and stability class C | ≥ 4.400E-04        | ≥ 0.000E+00      | ≥    | --- | ≥ |
| DFREQ(1,3,2)                                        |                    |                  |      |     |   |
| AIRT ≥ for wind speed class 1 and stability class D | ≥ 4.360E-03        | ≥ 0.000E+00      | ≥    | --- | ≥ |
| DFREQ(1,4,2)                                        |                    |                  |      |     |   |
| AIRT ≥ for wind speed class 1 and stability class E | ≥ 1.690E-03        | ≥ 0.000E+00      | ≥    | --- | ≥ |
| DFREQ(1,5,2)                                        |                    |                  |      |     |   |
| AIRT ≥ for wind speed class 1 and stability class F | ≥ 3.860E-03        | ≥ 0.000E+00      | ≥    | --- | ≥ |
| DFREQ(1,6,2)                                        |                    |                  |      |     |   |
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 File : INDUSTRIAL NO CAP BASE.ROF

## Site-Specific Parameter Summary (continued)

| 0                                                                                                                   | ≥ | ≥                                            | User | ≥         | RESRAD | ≥         |   |          |   |      |
|---------------------------------------------------------------------------------------------------------------------|---|----------------------------------------------|------|-----------|--------|-----------|---|----------|---|------|
| Parameter                                                                                                           |   |                                              |      |           |        |           |   |          |   |      |
| Menu                                                                                                                | ≥ | Parameter                                    | ≥    | Input     | ≥      | Default   | ≥ | computed | ≥ | Name |
| fffff~ffffffffffffffffffffffffffffffffffffffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff<br>fffff |   |                                              |      |           |        |           |   |          |   |      |
| AIRT                                                                                                                | ≥ | Joint Frequency in NNE Sector                | ≥    |           | ≥      |           | ≥ |          | ≥ |      |
| AIRT                                                                                                                | ≥ | for wind speed class 2 and stability class A | ≥    | 4.900E-04 | ≥      | 0.000E+00 | ≥ | ---      | ≥ |      |
| DFREQ(2,1,2)                                                                                                        |   |                                              |      |           |        |           |   |          |   |      |
| AIRT                                                                                                                | ≥ | for wind speed class 2 and stability class B | ≥    | 6.200E-04 | ≥      | 0.000E+00 | ≥ | ---      | ≥ |      |
| DFREQ(2,2,2)                                                                                                        |   |                                              |      |           |        |           |   |          |   |      |
| AIRT                                                                                                                | ≥ | for wind speed class 2 and stability class C | ≥    | 2.090E-03 | ≥      | 0.000E+00 | ≥ | ---      | ≥ |      |
| DFREQ(2,3,2)                                                                                                        |   |                                              |      |           |        |           |   |          |   |      |
| AIRT                                                                                                                | ≥ | for wind speed class 2 and stability class D | ≥    | 1.694E-02 | ≥      | 0.000E+00 | ≥ | ---      | ≥ |      |
| DFREQ(2,4,2)                                                                                                        |   |                                              |      |           |        |           |   |          |   |      |
| AIRT                                                                                                                | ≥ | for wind speed class 2 and stability class E | ≥    | 1.294E-02 | ≥      | 0.000E+00 | ≥ | ---      | ≥ |      |
| DFREQ(2,5,2)                                                                                                        |   |                                              |      |           |        |           |   |          |   |      |
| AIRT                                                                                                                | ≥ | for wind speed class 2 and stability class F | ≥    | 4.500E-03 | ≥      | 0.000E+00 | ≥ | ---      | ≥ |      |
| DFREQ(2,6,2)                                                                                                        |   |                                              |      |           |        |           |   |          |   |      |
|                                                                                                                     | ≥ |                                              | ≥    |           | ≥      |           | ≥ |          | ≥ |      |
| AIRT                                                                                                                | ≥ | Joint Frequency in NNE Sector                | ≥    |           | ≥      |           | ≥ |          | ≥ |      |
| AIRT                                                                                                                | ≥ | for wind speed class 3 and stability class A | ≥    | 0.000E+00 | ≥      | 0.000E+00 | ≥ | ---      | ≥ |      |
| DFREQ(3,1,2)                                                                                                        |   |                                              |      |           |        |           |   |          |   |      |
| AIRT                                                                                                                | ≥ | for wind speed class 3 and stability class B | ≥    | 1.000E-05 | ≥      | 0.000E+00 | ≥ | ---      | ≥ |      |
| DFREQ(3,2,2)                                                                                                        |   |                                              |      |           |        |           |   |          |   |      |
| AIRT                                                                                                                | ≥ | for wind speed class 3 and stability class C | ≥    | 1.030E-03 | ≥      | 0.000E+00 | ≥ | ---      | ≥ |      |
| DFREQ(3,3,2)                                                                                                        |   |                                              |      |           |        |           |   |          |   |      |
| AIRT                                                                                                                | ≥ | for wind speed class 3 and stability class D | ≥    | 2.506E-02 | ≥      | 0.000E+00 | ≥ | ---      | ≥ |      |
| DFREQ(3,4,2)                                                                                                        |   |                                              |      |           |        |           |   |          |   |      |



|                                                                     |             |             |       |   |
|---------------------------------------------------------------------|-------------|-------------|-------|---|
| AIRT ≥ for wind speed class 3 and stability class E<br>DFREQ(3,5,2) | ≥ 3.590E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class F<br>DFREQ(3,6,2) | ≥ 7.000E-05 | ≥ 0.000E+00 | ≥ --- | ≥ |
| ≥                                                                   | ≥           | ≥           |       | ≥ |
| AIRT ≥ Joint Frequency in NNE Sector                                | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 4 and stability class A<br>DFREQ(4,1,2) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class B<br>DFREQ(4,2,2) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class C<br>DFREQ(4,3,2) | ≥ 1.000E-05 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class D<br>DFREQ(4,4,2) | ≥ 1.041E-02 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class E<br>DFREQ(4,5,2) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class F<br>DFREQ(4,6,2) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| ≥                                                                   | ≥           | ≥           |       | ≥ |
| AIRT ≥ Joint Frequency in NNE Sector                                | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 5 and stability class A<br>DFREQ(5,1,2) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class B<br>DFREQ(5,2,2) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class C<br>DFREQ(5,3,2) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class D<br>DFREQ(5,4,2) | ≥ 1.480E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class E<br>DFREQ(5,5,2) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class F<br>DFREQ(5,6,2) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| ≥                                                                   | ≥           | ≥           |       | ≥ |

|                                                                     |             |             |       |   |
|---------------------------------------------------------------------|-------------|-------------|-------|---|
| AIRT ≥ Joint Frequency in NNE Sector                                | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 6 and stability class A<br>DFREQ(6,1,2) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class B<br>DFREQ(6,2,2) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class C<br>DFREQ(6,3,2) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class D<br>DFREQ(6,4,2) | ≥ 8.000E-05 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class E<br>DFREQ(6,5,2) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class F<br>DFREQ(6,6,2) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| ≥                                                                   | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ Joint Frequency in NE Sector                                 | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 1 and stability class A<br>DFREQ(1,1,3) | ≥ 5.400E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class B<br>DFREQ(1,2,3) | ≥ 1.000E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class C<br>DFREQ(1,3,3) | ≥ 2.500E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class D<br>DFREQ(1,4,3) | ≥ 3.890E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class E<br>DFREQ(1,5,3) | ≥ 1.730E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class F<br>DFREQ(1,6,3) | ≥ 6.140E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

Site-Specific Parameter Summary (continued)

| 0            | ≥ | ≥                                            | User | ≥         | ≥ | RESRAD    | ≥ |          |   |      |
|--------------|---|----------------------------------------------|------|-----------|---|-----------|---|----------|---|------|
| Parameter    |   |                                              |      |           |   |           |   |          |   |      |
| Menu         | ≥ | Parameter                                    | ≥    | Input     | ≥ | Default   | ≥ | computed | ≥ | Name |
| ~~~~~        |   |                                              |      |           |   |           |   |          |   |      |
| ~~~~~        |   |                                              |      |           |   |           |   |          |   |      |
| AIRT         | ≥ | Joint Frequency in NE Sector                 | ≥    |           | ≥ |           | ≥ |          | ≥ |      |
| AIRT         | ≥ | for wind speed class 2 and stability class A | ≥    | 2.900E-04 | ≥ | 0.000E+00 | ≥ | ---      | ≥ |      |
| DFREQ(2,1,3) |   |                                              |      |           |   |           |   |          |   |      |
| AIRT         | ≥ | for wind speed class 2 and stability class B | ≥    | 3.300E-04 | ≥ | 0.000E+00 | ≥ | ---      | ≥ |      |
| DFREQ(2,2,3) |   |                                              |      |           |   |           |   |          |   |      |
| AIRT         | ≥ | for wind speed class 2 and stability class C | ≥    | 1.070E-03 | ≥ | 0.000E+00 | ≥ | ---      | ≥ |      |
| DFREQ(2,3,3) |   |                                              |      |           |   |           |   |          |   |      |
| AIRT         | ≥ | for wind speed class 2 and stability class D | ≥    | 1.046E-02 | ≥ | 0.000E+00 | ≥ | ---      | ≥ |      |
| DFREQ(2,4,3) |   |                                              |      |           |   |           |   |          |   |      |
| AIRT         | ≥ | for wind speed class 2 and stability class E | ≥    | 1.060E-02 | ≥ | 0.000E+00 | ≥ | ---      | ≥ |      |
| DFREQ(2,5,3) |   |                                              |      |           |   |           |   |          |   |      |
| AIRT         | ≥ | for wind speed class 2 and stability class F | ≥    | 1.477E-02 | ≥ | 0.000E+00 | ≥ | ---      | ≥ |      |
| DFREQ(2,6,3) |   |                                              |      |           |   |           |   |          |   |      |
|              | ≥ |                                              | ≥    |           | ≥ |           | ≥ |          | ≥ |      |
| AIRT         | ≥ | Joint Frequency in NE Sector                 | ≥    |           | ≥ |           | ≥ |          | ≥ |      |
| AIRT         | ≥ | for wind speed class 3 and stability class A | ≥    | 1.000E-05 | ≥ | 0.000E+00 | ≥ | ---      | ≥ |      |
| DFREQ(3,1,3) |   |                                              |      |           |   |           |   |          |   |      |
| AIRT         | ≥ | for wind speed class 3 and stability class B | ≥    | 2.000E-05 | ≥ | 0.000E+00 | ≥ | ---      | ≥ |      |
| DFREQ(3,2,3) |   |                                              |      |           |   |           |   |          |   |      |
| AIRT         | ≥ | for wind speed class 3 and stability class C | ≥    | 3.700E-04 | ≥ | 0.000E+00 | ≥ | ---      | ≥ |      |
| DFREQ(3,3,3) |   |                                              |      |           |   |           |   |          |   |      |
| AIRT         | ≥ | for wind speed class 3 and stability class D | ≥    | 1.610E-02 | ≥ | 0.000E+00 | ≥ | ---      | ≥ |      |
| DFREQ(3,4,3) |   |                                              |      |           |   |           |   |          |   |      |
| AIRT         | ≥ | for wind speed class 3 and stability class E | ≥    | 9.520E-03 | ≥ | 0.000E+00 | ≥ | ---      | ≥ |      |
| DFREQ(3,5,3) |   |                                              |      |           |   |           |   |          |   |      |
| AIRT         | ≥ | for wind speed class 3 and stability class F | ≥    | 1.570E-03 | ≥ | 0.000E+00 | ≥ | ---      | ≥ |      |
| DFREQ(3,6,3) |   |                                              |      |           |   |           |   |          |   |      |

|                                                                     |             |             |       |   |
|---------------------------------------------------------------------|-------------|-------------|-------|---|
| ≥                                                                   | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ Joint Frequency in NE Sector                                 | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 4 and stability class A<br>DFREQ(4,1,3) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class B<br>DFREQ(4,2,3) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class C<br>DFREQ(4,3,3) | ≥ 1.000E-05 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class D<br>DFREQ(4,4,3) | ≥ 1.176E-02 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class E<br>DFREQ(4,5,3) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class F<br>DFREQ(4,6,3) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| ≥                                                                   | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ Joint Frequency in NE Sector                                 | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 5 and stability class A<br>DFREQ(5,1,3) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class B<br>DFREQ(5,2,3) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class C<br>DFREQ(5,3,3) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class D<br>DFREQ(5,4,3) | ≥ 2.460E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class E<br>DFREQ(5,5,3) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class F<br>DFREQ(5,6,3) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| ≥                                                                   | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ Joint Frequency in NE Sector                                 | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 6 and stability class A<br>DFREQ(6,1,3) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class B                 | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |

|              |                                              |             |             |       |   |
|--------------|----------------------------------------------|-------------|-------------|-------|---|
| DFREQ(6,2,3) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 6 and stability class C | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(6,3,3) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 6 and stability class D | ≥ 3.400E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(6,4,3) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 6 and stability class E | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(6,5,3) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 6 and stability class F | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(6,6,3) |                                              |             |             |       |   |
| ≥            |                                              | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥       | Joint Frequency in ENE Sector                | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥       | for wind speed class 1 and stability class A | ≥ 4.700E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(1,1,4) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 1 and stability class B | ≥ 1.100E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(1,2,4) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 1 and stability class C | ≥ 1.500E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(1,3,4) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 1 and stability class D | ≥ 3.650E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(1,4,4) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 1 and stability class E | ≥ 1.750E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(1,5,4) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 1 and stability class F | ≥ 7.460E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(1,6,4) |                                              |             |             |       |   |

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Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

## Site-Specific Parameter Summary (continued)

|           |   |           |   |       |   |         |   |          |      |
|-----------|---|-----------|---|-------|---|---------|---|----------|------|
| 0         | ≥ |           | ≥ | User  | ≥ |         | ≥ | RESRAD   | ≥    |
| Parameter |   |           |   |       |   |         |   |          |      |
| Menu ≥    |   | Parameter | ≥ | Input | ≥ | Default | ≥ | computed | ≥    |
|           |   |           |   |       |   |         |   |          | Name |

fffff~ffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff  
 fffff

|                                                                     |             |             |       |   |
|---------------------------------------------------------------------|-------------|-------------|-------|---|
| AIRT ≥ Joint Frequency in ENE Sector                                | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 2 and stability class A<br>DFREQ(2,1,4) | ≥ 1.600E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 2 and stability class B<br>DFREQ(2,2,4) | ≥ 2.300E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 2 and stability class C<br>DFREQ(2,3,4) | ≥ 7.900E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 2 and stability class D<br>DFREQ(2,4,4) | ≥ 8.440E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 2 and stability class E<br>DFREQ(2,5,4) | ≥ 4.530E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 2 and stability class F<br>DFREQ(2,6,4) | ≥ 2.714E-02 | ≥ 0.000E+00 | ≥ --- | ≥ |
| ≥                                                                   | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ Joint Frequency in ENE Sector                                | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 3 and stability class A<br>DFREQ(3,1,4) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class B<br>DFREQ(3,2,4) | ≥ 2.000E-05 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class C<br>DFREQ(3,3,4) | ≥ 3.100E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class D<br>DFREQ(3,4,4) | ≥ 1.256E-02 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class E<br>DFREQ(3,5,4) | ≥ 4.630E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class F<br>DFREQ(3,6,4) | ≥ 6.070E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| ≥                                                                   | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ Joint Frequency in ENE Sector                                | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 4 and stability class A<br>DFREQ(4,1,4) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |

|                                                                     |             |             |       |   |
|---------------------------------------------------------------------|-------------|-------------|-------|---|
| AIRT ≥ for wind speed class 4 and stability class B<br>DFREQ(4,2,4) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class C<br>DFREQ(4,3,4) | ≥ 1.000E-05 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class D<br>DFREQ(4,4,4) | ≥ 1.388E-02 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class E<br>DFREQ(4,5,4) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class F<br>DFREQ(4,6,4) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| ≥                                                                   | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ Joint Frequency in ENE Sector                                | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 5 and stability class A<br>DFREQ(5,1,4) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class B<br>DFREQ(5,2,4) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class C<br>DFREQ(5,3,4) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class D<br>DFREQ(5,4,4) | ≥ 3.630E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class E<br>DFREQ(5,5,4) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class F<br>DFREQ(5,6,4) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| ≥                                                                   | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ Joint Frequency in ENE Sector                                | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 6 and stability class A<br>DFREQ(6,1,4) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class B<br>DFREQ(6,2,4) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class C<br>DFREQ(6,3,4) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class D                 | ≥ 6.800E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |

|              |                                              |             |             |       |   |
|--------------|----------------------------------------------|-------------|-------------|-------|---|
| DFREQ(6,4,4) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 6 and stability class E | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(6,5,4) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 6 and stability class F | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(6,6,4) |                                              |             |             |       |   |
| ≥            |                                              | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥       | Joint Frequency in E Sector                  | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥       | for wind speed class 1 and stability class A | ≥ 3.100E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(1,1,5) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 1 and stability class B | ≥ 6.000E-05 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(1,2,5) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 1 and stability class C | ≥ 1.400E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(1,3,5) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 1 and stability class D | ≥ 3.460E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(1,4,5) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 1 and stability class E | ≥ 1.400E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(1,5,5) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 1 and stability class F | ≥ 7.640E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(1,6,5) |                                              |             |             |       |   |

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File : INDUSTRIAL NO CAP BASE.ROF

Site-Specific Parameter Summary (continued)

|                                                                                                                         |                                              |           |             |       |             |         |       |          |   |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-----------|-------------|-------|-------------|---------|-------|----------|---|
| 0                                                                                                                       | ≥                                            |           | ≥           | User  | ≥           |         | ≥     | RESRAD   | ≥ |
| Parameter                                                                                                               |                                              |           |             |       |             |         |       |          |   |
| Menu                                                                                                                    | ≥                                            | Parameter | ≥           | Input | ≥           | Default | ≥     | computed | ≥ |
| fffff~ffffffffffffffffffffffffffffffffffffffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff |                                              |           |             |       |             |         |       |          |   |
| fffff                                                                                                                   |                                              |           |             |       |             |         |       |          |   |
| AIRT ≥                                                                                                                  | Joint Frequency in E Sector                  |           | ≥           |       | ≥           |         | ≥     |          | ≥ |
| AIRT ≥                                                                                                                  | for wind speed class 2 and stability class A |           | ≥ 2.600E-04 |       | ≥ 0.000E+00 |         | ≥ --- |          | ≥ |



|              |                                              |             |             |       |   |
|--------------|----------------------------------------------|-------------|-------------|-------|---|
| DFREQ(2,1,5) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 2 and stability class B | ≥ 2.200E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(2,2,5) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 2 and stability class C | ≥ 5.200E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(2,3,5) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 2 and stability class D | ≥ 7.640E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(2,4,5) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 2 and stability class E | ≥ 3.330E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(2,5,5) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 2 and stability class F | ≥ 2.584E-02 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(2,6,5) |                                              |             |             |       |   |
| ≥            |                                              | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥       | Joint Frequency in E Sector                  | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥       | for wind speed class 3 and stability class A | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(3,1,5) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 3 and stability class B | ≥ 4.000E-05 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(3,2,5) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 3 and stability class C | ≥ 3.300E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(3,3,5) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 3 and stability class D | ≥ 1.394E-02 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(3,4,5) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 3 and stability class E | ≥ 2.710E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(3,5,5) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 3 and stability class F | ≥ 4.020E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(3,6,5) |                                              |             |             |       |   |
| ≥            |                                              | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥       | Joint Frequency in E Sector                  | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥       | for wind speed class 4 and stability class A | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(4,1,5) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 4 and stability class B | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(4,2,5) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 4 and stability class C | ≥ 1.000E-05 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(4,3,5) |                                              |             |             |       |   |

|                                                                     |                           |     |   |
|---------------------------------------------------------------------|---------------------------|-----|---|
| AIRT ≥ for wind speed class 4 and stability class D<br>DFREQ(4,4,5) | ≥ 1.553E-02 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class E<br>DFREQ(4,5,5) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class F<br>DFREQ(4,6,5) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| ≥                                                                   | ≥                         | ≥   | ≥ |
| AIRT ≥ Joint Frequency in E Sector                                  | ≥                         | ≥   | ≥ |
| AIRT ≥ for wind speed class 5 and stability class A<br>DFREQ(5,1,5) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class B<br>DFREQ(5,2,5) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class C<br>DFREQ(5,3,5) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class D<br>DFREQ(5,4,5) | ≥ 4.250E-03 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class E<br>DFREQ(5,5,5) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class F<br>DFREQ(5,6,5) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| ≥                                                                   | ≥                         | ≥   | ≥ |
| AIRT ≥ Joint Frequency in E Sector                                  | ≥                         | ≥   | ≥ |
| AIRT ≥ for wind speed class 6 and stability class A<br>DFREQ(6,1,5) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class B<br>DFREQ(6,2,5) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class C<br>DFREQ(6,3,5) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class D<br>DFREQ(6,4,5) | ≥ 7.500E-04 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class E<br>DFREQ(6,5,5) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class F                 | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |

|                                                     |             |             |   |     |   |
|-----------------------------------------------------|-------------|-------------|---|-----|---|
| DFREQ(6,6,5)                                        | ≥           | ≥           | ≥ | ≥   | ≥ |
| AIRT ≥ Joint Frequency in ESE Sector                | ≥           | ≥           | ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class A | ≥ 3.500E-04 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(1,1,6)                                        | ≥           | ≥           | ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class B | ≥ 7.000E-05 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(1,2,6)                                        | ≥           | ≥           | ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class C | ≥ 1.200E-04 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(1,3,6)                                        | ≥           | ≥           | ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class D | ≥ 3.080E-03 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(1,4,6)                                        | ≥           | ≥           | ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class E | ≥ 1.640E-03 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(1,5,6)                                        | ≥           | ≥           | ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class F | ≥ 7.400E-03 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(1,6,6)                                        | ≥           | ≥           | ≥ | --- | ≥ |

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Site-Specific Parameter Summary (continued)

|           |   |           |      |       |   |         |                   |
|-----------|---|-----------|------|-------|---|---------|-------------------|
| 0         | ≥ | ≥         | User | ≥     | ≥ | RESRAD  | ≥                 |
| Parameter |   |           |      |       |   |         |                   |
| Menu      | ≥ | Parameter | ≥    | Input | ≥ | Default | ≥ computed ≥ Name |

|                                                                                                                                                         |             |             |   |     |   |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|---|-----|---|--|--|
| fffff~ffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff |             |             |   |     |   |  |  |
| fffff                                                                                                                                                   |             |             |   |     |   |  |  |
| AIRT ≥ Joint Frequency in ESE Sector                                                                                                                    | ≥           | ≥           | ≥ | --- | ≥ |  |  |
| AIRT ≥ for wind speed class 2 and stability class A                                                                                                     | ≥ 2.000E-04 | ≥ 0.000E+00 | ≥ | --- | ≥ |  |  |
| DFREQ(2,1,6)                                                                                                                                            | ≥           | ≥           | ≥ | --- | ≥ |  |  |
| AIRT ≥ for wind speed class 2 and stability class B                                                                                                     | ≥ 1.400E-04 | ≥ 0.000E+00 | ≥ | --- | ≥ |  |  |
| DFREQ(2,2,6)                                                                                                                                            | ≥           | ≥           | ≥ | --- | ≥ |  |  |
| AIRT ≥ for wind speed class 2 and stability class C                                                                                                     | ≥ 6.400E-04 | ≥ 0.000E+00 | ≥ | --- | ≥ |  |  |

|              |                                              |             |             |       |   |
|--------------|----------------------------------------------|-------------|-------------|-------|---|
| DFREQ(2,3,6) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 2 and stability class D | ≥ 7.210E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(2,4,6) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 2 and stability class E | ≥ 4.170E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(2,5,6) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 2 and stability class F | ≥ 2.126E-02 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(2,6,6) |                                              |             |             |       |   |
| ≥            |                                              | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥       | Joint Frequency in ESE Sector                | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥       | for wind speed class 3 and stability class A | ≥ 2.000E-05 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(3,1,6) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 3 and stability class B | ≥ 3.000E-05 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(3,2,6) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 3 and stability class C | ≥ 3.400E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(3,3,6) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 3 and stability class D | ≥ 1.315E-02 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(3,4,6) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 3 and stability class E | ≥ 4.690E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(3,5,6) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 3 and stability class F | ≥ 3.490E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(3,6,6) |                                              |             |             |       |   |
| ≥            |                                              | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥       | Joint Frequency in ESE Sector                | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥       | for wind speed class 4 and stability class A | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(4,1,6) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 4 and stability class B | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(4,2,6) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 4 and stability class C | ≥ 2.000E-05 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(4,3,6) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 4 and stability class D | ≥ 1.237E-02 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(4,4,6) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 4 and stability class E | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(4,5,6) |                                              |             |             |       |   |

|                                                                     |             |             |   |     |   |
|---------------------------------------------------------------------|-------------|-------------|---|-----|---|
| AIRT ≥ for wind speed class 4 and stability class F<br>DFREQ(4,6,6) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| ≥                                                                   | ≥           | ≥           | ≥ |     | ≥ |
| AIRT ≥ Joint Frequency in ESE Sector                                | ≥           | ≥           | ≥ |     | ≥ |
| AIRT ≥ for wind speed class 5 and stability class A<br>DFREQ(5,1,6) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class B<br>DFREQ(5,2,6) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class C<br>DFREQ(5,3,6) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class D<br>DFREQ(5,4,6) | ≥ 4.700E-03 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class E<br>DFREQ(5,5,6) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class F<br>DFREQ(5,6,6) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| ≥                                                                   | ≥           | ≥           | ≥ |     | ≥ |
| AIRT ≥ Joint Frequency in ESE Sector                                | ≥           | ≥           | ≥ |     | ≥ |
| AIRT ≥ for wind speed class 6 and stability class A<br>DFREQ(6,1,6) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class B<br>DFREQ(6,2,6) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class C<br>DFREQ(6,3,6) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class D<br>DFREQ(6,4,6) | ≥ 1.510E-03 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class E<br>DFREQ(6,5,6) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class F<br>DFREQ(6,6,6) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| ≥                                                                   | ≥           | ≥           | ≥ |     | ≥ |
| AIRT ≥ Joint Frequency in SE Sector                                 | ≥           | ≥           | ≥ |     | ≥ |
| AIRT ≥ for wind speed class 1 and stability class A                 | ≥ 3.900E-04 | ≥ 0.000E+00 | ≥ | --- | ≥ |

|              |                                                     |             |             |       |   |
|--------------|-----------------------------------------------------|-------------|-------------|-------|---|
| DFREQ(1,1,7) | AIRT ≥ for wind speed class 1 and stability class B | ≥ 6.000E-05 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(1,2,7) | AIRT ≥ for wind speed class 1 and stability class C | ≥ 1.000E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(1,3,7) | AIRT ≥ for wind speed class 1 and stability class D | ≥ 3.820E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(1,4,7) | AIRT ≥ for wind speed class 1 and stability class E | ≥ 1.790E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(1,5,7) | AIRT ≥ for wind speed class 1 and stability class F | ≥ 7.480E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(1,6,7) |                                                     |             |             |       |   |

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Site-Specific Parameter Summary (continued)

|              |                                                |             |             |       |         |            |        |
|--------------|------------------------------------------------|-------------|-------------|-------|---------|------------|--------|
| 0            | ≥                                              | ≥           | User        | ≥     | ≥       | RESRAD     | ≥      |
| Parameter    |                                                |             |             |       |         |            |        |
| Menu ≥       | Parameter                                      | ≥           | Input       | ≥     | Default | ≥ computed | ≥ Name |
| ~~~~~        |                                                |             |             |       |         |            |        |
| ~~~~~        |                                                |             |             |       |         |            |        |
| AIRT         | ≥ Joint Frequency in SE Sector                 | ≥           |             | ≥     |         | ≥          |        |
| AIRT         | ≥ for wind speed class 2 and stability class A | ≥ 1.900E-04 | ≥ 0.000E+00 | ≥ --- |         | ≥          |        |
| DFREQ(2,1,7) |                                                |             |             |       |         |            |        |
| AIRT         | ≥ for wind speed class 2 and stability class B | ≥ 1.800E-04 | ≥ 0.000E+00 | ≥ --- |         | ≥          |        |
| DFREQ(2,2,7) |                                                |             |             |       |         |            |        |
| AIRT         | ≥ for wind speed class 2 and stability class C | ≥ 5.900E-04 | ≥ 0.000E+00 | ≥ --- |         | ≥          |        |
| DFREQ(2,3,7) |                                                |             |             |       |         |            |        |
| AIRT         | ≥ for wind speed class 2 and stability class D | ≥ 8.600E-03 | ≥ 0.000E+00 | ≥ --- |         | ≥          |        |
| DFREQ(2,4,7) |                                                |             |             |       |         |            |        |
| AIRT         | ≥ for wind speed class 2 and stability class E | ≥ 7.090E-03 | ≥ 0.000E+00 | ≥ --- |         | ≥          |        |

|                                                     |             |             |       |   |  |
|-----------------------------------------------------|-------------|-------------|-------|---|--|
| DFREQ(2,5,7)                                        |             |             |       |   |  |
| AIRT ≥ for wind speed class 2 and stability class F | ≥ 2.564E-02 | ≥ 0.000E+00 | ≥ --- | ≥ |  |
| DFREQ(2,6,7)                                        |             |             |       |   |  |
| ≥                                                   | ≥           | ≥           | ≥     | ≥ |  |
| AIRT ≥ Joint Frequency in SE Sector                 | ≥           | ≥           | ≥     | ≥ |  |
| AIRT ≥ for wind speed class 3 and stability class A | ≥ 2.000E-05 | ≥ 0.000E+00 | ≥ --- | ≥ |  |
| DFREQ(3,1,7)                                        |             |             |       |   |  |
| AIRT ≥ for wind speed class 3 and stability class B | ≥ 6.000E-05 | ≥ 0.000E+00 | ≥ --- | ≥ |  |
| DFREQ(3,2,7)                                        |             |             |       |   |  |
| AIRT ≥ for wind speed class 3 and stability class C | ≥ 4.900E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |  |
| DFREQ(3,3,7)                                        |             |             |       |   |  |
| AIRT ≥ for wind speed class 3 and stability class D | ≥ 1.200E-02 | ≥ 0.000E+00 | ≥ --- | ≥ |  |
| DFREQ(3,4,7)                                        |             |             |       |   |  |
| AIRT ≥ for wind speed class 3 and stability class E | ≥ 6.180E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |  |
| DFREQ(3,5,7)                                        |             |             |       |   |  |
| AIRT ≥ for wind speed class 3 and stability class F | ≥ 1.700E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |  |
| DFREQ(3,6,7)                                        |             |             |       |   |  |
| ≥                                                   | ≥           | ≥           | ≥     | ≥ |  |
| AIRT ≥ Joint Frequency in SE Sector                 | ≥           | ≥           | ≥     | ≥ |  |
| AIRT ≥ for wind speed class 4 and stability class A | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |  |
| DFREQ(4,1,7)                                        |             |             |       |   |  |
| AIRT ≥ for wind speed class 4 and stability class B | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |  |
| DFREQ(4,2,7)                                        |             |             |       |   |  |
| AIRT ≥ for wind speed class 4 and stability class C | ≥ 4.000E-05 | ≥ 0.000E+00 | ≥ --- | ≥ |  |
| DFREQ(4,3,7)                                        |             |             |       |   |  |
| AIRT ≥ for wind speed class 4 and stability class D | ≥ 8.430E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |  |
| DFREQ(4,4,7)                                        |             |             |       |   |  |
| AIRT ≥ for wind speed class 4 and stability class E | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |  |
| DFREQ(4,5,7)                                        |             |             |       |   |  |
| AIRT ≥ for wind speed class 4 and stability class F | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |  |
| DFREQ(4,6,7)                                        |             |             |       |   |  |
| ≥                                                   | ≥           | ≥           | ≥     | ≥ |  |
| AIRT ≥ Joint Frequency in SE Sector                 | ≥           | ≥           | ≥     | ≥ |  |

|                                                                     |             |             |       |   |
|---------------------------------------------------------------------|-------------|-------------|-------|---|
| AIRT ≥ for wind speed class 5 and stability class A<br>DFREQ(5,1,7) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class B<br>DFREQ(5,2,7) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class C<br>DFREQ(5,3,7) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class D<br>DFREQ(5,4,7) | ≥ 2.050E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class E<br>DFREQ(5,5,7) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class F<br>DFREQ(5,6,7) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| ≥                                                                   | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ Joint Frequency in SE Sector                                 | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 6 and stability class A<br>DFREQ(6,1,7) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class B<br>DFREQ(6,2,7) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class C<br>DFREQ(6,3,7) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class D<br>DFREQ(6,4,7) | ≥ 6.000E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class E<br>DFREQ(6,5,7) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class F<br>DFREQ(6,6,7) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| ≥                                                                   | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ Joint Frequency in SSE Sector                                | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 1 and stability class A<br>DFREQ(1,1,8) | ≥ 5.200E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class B<br>DFREQ(1,2,8) | ≥ 9.000E-05 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class C                 | ≥ 1.500E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |



DFREQ(1,3,8)  
 AIRT ≥ for wind speed class 1 and stability class D ≥ 4.260E-03 ≥ 0.000E+00 ≥ --- ≥  
 DFREQ(1,4,8)  
 AIRT ≥ for wind speed class 1 and stability class E ≥ 1.870E-03 ≥ 0.000E+00 ≥ --- ≥  
 DFREQ(1,5,8)  
 AIRT ≥ for wind speed class 1 and stability class F ≥ 8.060E-03 ≥ 0.000E+00 ≥ --- ≥  
 DFREQ(1,6,8)  
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## Site-Specific Parameter Summary (continued)

| 0            | ≥     | ≥                                            | User  | ≥         | ≥     | RESRAD    | ≥          |
|--------------|-------|----------------------------------------------|-------|-----------|-------|-----------|------------|
| Parameter    |       |                                              |       |           |       |           |            |
| Menu         | ≥     | Parameter                                    | ≥     | Input     | ≥     | Default   | ≥ computed |
|              |       |                                              |       |           |       |           | Name       |
| fffff~       | fffff | fffff                                        | fffff | fffff     | fffff | fffff     | fffff      |
| fffff        |       |                                              |       |           |       |           |            |
| AIRT         | ≥     | Joint Frequency in SSE Sector                | ≥     |           | ≥     |           | ≥          |
| AIRT         | ≥     | for wind speed class 2 and stability class A | ≥     | 2.600E-04 | ≥     | 0.000E+00 | ≥ --- ≥    |
| DFREQ(2,1,8) |       |                                              |       |           |       |           |            |
| AIRT         | ≥     | for wind speed class 2 and stability class B | ≥     | 1.800E-04 | ≥     | 0.000E+00 | ≥ --- ≥    |
| DFREQ(2,2,8) |       |                                              |       |           |       |           |            |
| AIRT         | ≥     | for wind speed class 2 and stability class C | ≥     | 5.200E-04 | ≥     | 0.000E+00 | ≥ --- ≥    |
| DFREQ(2,3,8) |       |                                              |       |           |       |           |            |
| AIRT         | ≥     | for wind speed class 2 and stability class D | ≥     | 7.070E-03 | ≥     | 0.000E+00 | ≥ --- ≥    |
| DFREQ(2,4,8) |       |                                              |       |           |       |           |            |
| AIRT         | ≥     | for wind speed class 2 and stability class E | ≥     | 4.710E-03 | ≥     | 0.000E+00 | ≥ --- ≥    |
| DFREQ(2,5,8) |       |                                              |       |           |       |           |            |
| AIRT         | ≥     | for wind speed class 2 and stability class F | ≥     | 1.464E-02 | ≥     | 0.000E+00 | ≥ --- ≥    |
| DFREQ(2,6,8) |       |                                              |       |           |       |           |            |
| ≥            |       |                                              | ≥     |           | ≥     |           | ≥          |

|                                                                     |             |             |       |   |
|---------------------------------------------------------------------|-------------|-------------|-------|---|
| AIRT ≥ Joint Frequency in SSE Sector                                | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 3 and stability class A<br>DFREQ(3,1,8) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class B<br>DFREQ(3,2,8) | ≥ 2.000E-05 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class C<br>DFREQ(3,3,8) | ≥ 2.200E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class D<br>DFREQ(3,4,8) | ≥ 4.810E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class E<br>DFREQ(3,5,8) | ≥ 1.500E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class F<br>DFREQ(3,6,8) | ≥ 5.100E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| ≥                                                                   | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ Joint Frequency in SSE Sector                                | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 4 and stability class A<br>DFREQ(4,1,8) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class B<br>DFREQ(4,2,8) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class C<br>DFREQ(4,3,8) | ≥ 1.000E-05 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class D<br>DFREQ(4,4,8) | ≥ 1.320E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class E<br>DFREQ(4,5,8) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class F<br>DFREQ(4,6,8) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| ≥                                                                   | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ Joint Frequency in SSE Sector                                | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 5 and stability class A<br>DFREQ(5,1,8) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class B<br>DFREQ(5,2,8) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |

|                                                                     |             |             |       |   |
|---------------------------------------------------------------------|-------------|-------------|-------|---|
| AIRT ≥ for wind speed class 5 and stability class C<br>DFREQ(5,3,8) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class D<br>DFREQ(5,4,8) | ≥ 2.000E-05 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class E<br>DFREQ(5,5,8) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class F<br>DFREQ(5,6,8) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| ≥                                                                   | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ Joint Frequency in SSE Sector                                | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 6 and stability class A<br>DFREQ(6,1,8) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class B<br>DFREQ(6,2,8) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class C<br>DFREQ(6,3,8) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class D<br>DFREQ(6,4,8) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class E<br>DFREQ(6,5,8) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class F<br>DFREQ(6,6,8) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| ≥                                                                   | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ Joint Frequency in S Sector                                  | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 1 and stability class A<br>DFREQ(1,1,9) | ≥ 8.400E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class B<br>DFREQ(1,2,9) | ≥ 2.800E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class C<br>DFREQ(1,3,9) | ≥ 2.100E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class D<br>DFREQ(1,4,9) | ≥ 4.110E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class E                 | ≥ 1.620E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |

DFREQ(1,5,9)

AIRT ≥ for wind speed class 1 and stability class F ≥ 6.750E-03 ≥ 0.000E+00 ≥ --- ≥

DFREQ(1,6,9)

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T' Limit = 30 days

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

## Site-Specific Parameter Summary (continued)

0 ≥ ≥ User ≥ RESRAD ≥

Parameter

Menu ≥

Parameter

≥ Input

≥ Default

≥ computed

≥ Name

fffff~ffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff  
fffff

AIRT ≥ Joint Frequency in S Sector

≥ ≥ ≥ ≥

AIRT ≥ for wind speed class 2 and stability class A

≥ 2.800E-04 ≥ 0.000E+00 ≥ --- ≥

DFREQ(2,1,9)

AIRT ≥ for wind speed class 2 and stability class B

≥ 2.400E-04 ≥ 0.000E+00 ≥ --- ≥

DFREQ(2,2,9)

AIRT ≥ for wind speed class 2 and stability class C

≥ 5.600E-04 ≥ 0.000E+00 ≥ --- ≥

DFREQ(2,3,9)

AIRT ≥ for wind speed class 2 and stability class D

≥ 7.070E-03 ≥ 0.000E+00 ≥ --- ≥

DFREQ(2,4,9)

AIRT ≥ for wind speed class 2 and stability class E

≥ 4.300E-03 ≥ 0.000E+00 ≥ --- ≥

DFREQ(2,5,9)

AIRT ≥ for wind speed class 2 and stability class F

≥ 8.060E-03 ≥ 0.000E+00 ≥ --- ≥

DFREQ(2,6,9)

≥

≥ ≥ ≥ ≥

AIRT ≥ Joint Frequency in S Sector

≥ ≥ ≥ ≥

AIRT ≥ for wind speed class 3 and stability class A

≥ 1.000E-05 ≥ 0.000E+00 ≥ --- ≥

DFREQ(3,1,9)

AIRT ≥ for wind speed class 3 and stability class B

≥ 1.000E-05 ≥ 0.000E+00 ≥ --- ≥

|              |                                              |             |             |       |   |
|--------------|----------------------------------------------|-------------|-------------|-------|---|
| DFREQ(3,2,9) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 3 and stability class C | ≥ 7.000E-05 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(3,3,9) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 3 and stability class D | ≥ 3.500E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(3,4,9) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 3 and stability class E | ≥ 2.310E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(3,5,9) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 3 and stability class F | ≥ 7.100E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(3,6,9) |                                              |             |             |       |   |
| ≥            |                                              | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥       | Joint Frequency in S Sector                  | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥       | for wind speed class 4 and stability class A | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(4,1,9) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 4 and stability class B | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(4,2,9) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 4 and stability class C | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(4,3,9) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 4 and stability class D | ≥ 1.120E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(4,4,9) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 4 and stability class E | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(4,5,9) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 4 and stability class F | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(4,6,9) |                                              |             |             |       |   |
| ≥            |                                              | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥       | Joint Frequency in S Sector                  | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥       | for wind speed class 5 and stability class A | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(5,1,9) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 5 and stability class B | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(5,2,9) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 5 and stability class C | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(5,3,9) |                                              |             |             |       |   |
| AIRT ≥       | for wind speed class 5 and stability class D | ≥ 1.800E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| DFREQ(5,4,9) |                                              |             |             |       |   |

|                                                                      |             |             |       |   |
|----------------------------------------------------------------------|-------------|-------------|-------|---|
| AIRT ≥ for wind speed class 5 and stability class E<br>DFREQ(5,5,9)  | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class F<br>DFREQ(5,6,9)  | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| ≥                                                                    | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ Joint Frequency in S Sector                                   | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 6 and stability class A<br>DFREQ(6,1,9)  | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class B<br>DFREQ(6,2,9)  | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class C<br>DFREQ(6,3,9)  | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class D<br>DFREQ(6,4,9)  | ≥ 1.000E-05 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class E<br>DFREQ(6,5,9)  | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class F<br>DFREQ(6,6,9)  | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| ≥                                                                    | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ Joint Frequency in SSW Sector                                 | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 1 and stability class A<br>DFREQ(1,1,10) | ≥ 1.280E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class B<br>DFREQ(1,2,10) | ≥ 3.600E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class C<br>DFREQ(1,3,10) | ≥ 6.800E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class D<br>DFREQ(1,4,10) | ≥ 4.340E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class E<br>DFREQ(1,5,10) | ≥ 1.400E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class F<br>DFREQ(1,6,10) | ≥ 4.370E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |

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## Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

## Site-Specific Parameter Summary (continued)

| 0             | ≥                                              | ≥           | User        | ≥        | RESRAD | ≥      |
|---------------|------------------------------------------------|-------------|-------------|----------|--------|--------|
| Parameter     |                                                |             |             |          |        |        |
| Menu          | Parameter                                      | Input       | Default     | computed |        | Name   |
| fffff~        | fffff~                                         | fffff~      | fffff~      | fffff~   | fffff~ | fffff~ |
| fffff         |                                                |             |             |          |        |        |
| AIRT          | ≥ Joint Frequency in SSW Sector                | ≥           | ≥           | ≥        | ≥      |        |
| AIRT          | ≥ for wind speed class 2 and stability class A | ≥ 4.400E-04 | ≥ 0.000E+00 | ≥        | ---    | ≥      |
| DFREQ(2,1,10) |                                                |             |             |          |        |        |
| AIRT          | ≥ for wind speed class 2 and stability class B | ≥ 3.900E-04 | ≥ 0.000E+00 | ≥        | ---    | ≥      |
| DFREQ(2,2,10) |                                                |             |             |          |        |        |
| AIRT          | ≥ for wind speed class 2 and stability class C | ≥ 1.540E-03 | ≥ 0.000E+00 | ≥        | ---    | ≥      |
| DFREQ(2,3,10) |                                                |             |             |          |        |        |
| AIRT          | ≥ for wind speed class 2 and stability class D | ≥ 1.041E-02 | ≥ 0.000E+00 | ≥        | ---    | ≥      |
| DFREQ(2,4,10) |                                                |             |             |          |        |        |
| AIRT          | ≥ for wind speed class 2 and stability class E | ≥ 3.710E-03 | ≥ 0.000E+00 | ≥        | ---    | ≥      |
| DFREQ(2,5,10) |                                                |             |             |          |        |        |
| AIRT          | ≥ for wind speed class 2 and stability class F | ≥ 2.690E-03 | ≥ 0.000E+00 | ≥        | ---    | ≥      |
| DFREQ(2,6,10) |                                                |             |             |          |        |        |
| ≥             |                                                | ≥           | ≥           | ≥        |        | ≥      |
| AIRT          | ≥ Joint Frequency in SSW Sector                | ≥           | ≥           | ≥        | ≥      |        |
| AIRT          | ≥ for wind speed class 3 and stability class A | ≥ 1.000E-05 | ≥ 0.000E+00 | ≥        | ---    | ≥      |
| DFREQ(3,1,10) |                                                |             |             |          |        |        |
| AIRT          | ≥ for wind speed class 3 and stability class B | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥        | ---    | ≥      |
| DFREQ(3,2,10) |                                                |             |             |          |        |        |
| AIRT          | ≥ for wind speed class 3 and stability class C | ≥ 7.000E-05 | ≥ 0.000E+00 | ≥        | ---    | ≥      |
| DFREQ(3,3,10) |                                                |             |             |          |        |        |
| AIRT          | ≥ for wind speed class 3 and stability class D | ≥ 6.800E-03 | ≥ 0.000E+00 | ≥        | ---    | ≥      |

|                                                     |             |             |       |   |  |
|-----------------------------------------------------|-------------|-------------|-------|---|--|
| DFREQ(3,4,10)                                       |             |             |       |   |  |
| AIRT ≥ for wind speed class 3 and stability class E | ≥ 1.780E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |  |
| DFREQ(3,5,10)                                       |             |             |       |   |  |
| AIRT ≥ for wind speed class 3 and stability class F | ≥ 1.000E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |  |
| DFREQ(3,6,10)                                       |             |             |       |   |  |
| ≥                                                   | ≥           | ≥           | ≥     | ≥ |  |
| AIRT ≥ Joint Frequency in SSW Sector                | ≥           | ≥           | ≥     | ≥ |  |
| AIRT ≥ for wind speed class 4 and stability class A | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |  |
| DFREQ(4,1,10)                                       |             |             |       |   |  |
| AIRT ≥ for wind speed class 4 and stability class B | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |  |
| DFREQ(4,2,10)                                       |             |             |       |   |  |
| AIRT ≥ for wind speed class 4 and stability class C | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |  |
| DFREQ(4,3,10)                                       |             |             |       |   |  |
| AIRT ≥ for wind speed class 4 and stability class D | ≥ 2.080E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |  |
| DFREQ(4,4,10)                                       |             |             |       |   |  |
| AIRT ≥ for wind speed class 4 and stability class E | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |  |
| DFREQ(4,5,10)                                       |             |             |       |   |  |
| AIRT ≥ for wind speed class 4 and stability class F | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |  |
| DFREQ(4,6,10)                                       |             |             |       |   |  |
| ≥                                                   | ≥           | ≥           | ≥     | ≥ |  |
| AIRT ≥ Joint Frequency in SSW Sector                | ≥           | ≥           | ≥     | ≥ |  |
| AIRT ≥ for wind speed class 5 and stability class A | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |  |
| DFREQ(5,1,10)                                       |             |             |       |   |  |
| AIRT ≥ for wind speed class 5 and stability class B | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |  |
| DFREQ(5,2,10)                                       |             |             |       |   |  |
| AIRT ≥ for wind speed class 5 and stability class C | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |  |
| DFREQ(5,3,10)                                       |             |             |       |   |  |
| AIRT ≥ for wind speed class 5 and stability class D | ≥ 1.500E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |  |
| DFREQ(5,4,10)                                       |             |             |       |   |  |
| AIRT ≥ for wind speed class 5 and stability class E | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |  |
| DFREQ(5,5,10)                                       |             |             |       |   |  |
| AIRT ≥ for wind speed class 5 and stability class F | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |  |
| DFREQ(5,6,10)                                       |             |             |       |   |  |



|                                                                      |             |             |       |   |
|----------------------------------------------------------------------|-------------|-------------|-------|---|
| ≥                                                                    | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ Joint Frequency in SSW Sector                                 | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 6 and stability class A<br>DFREQ(6,1,10) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class B<br>DFREQ(6,2,10) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class C<br>DFREQ(6,3,10) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class D<br>DFREQ(6,4,10) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class E<br>DFREQ(6,5,10) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class F<br>DFREQ(6,6,10) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| ≥                                                                    | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ Joint Frequency in SW Sector                                  | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 1 and stability class A<br>DFREQ(1,1,11) | ≥ 1.910E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class B<br>DFREQ(1,2,11) | ≥ 5.800E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class C<br>DFREQ(1,3,11) | ≥ 7.500E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class D<br>DFREQ(1,4,11) | ≥ 4.290E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class E<br>DFREQ(1,5,11) | ≥ 9.900E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class F<br>DFREQ(1,6,11) | ≥ 2.530E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

## Site-Specific Parameter Summary (continued)

| 0             | ≥ | ≥                                            | User       | ≥          | ≥          | RESRAD     | ≥          |            |       |
|---------------|---|----------------------------------------------|------------|------------|------------|------------|------------|------------|-------|
| Parameter     |   |                                              |            |            |            |            |            |            |       |
| Menu          | ≥ | Parameter                                    | ≥          | Input      | ≥          | Default    | ≥ computed | ≥          | Name  |
| fffff         | ~ | ffffffffff                                   | ffffffffff | ffffffffff | ffffffffff | ffffffffff | ffffffffff | ffffffffff | fffff |
| fffff         |   |                                              |            |            |            |            |            |            |       |
| AIRT          | ≥ | Joint Frequency in SW Sector                 | ≥          |            | ≥          |            | ≥          |            | ≥     |
| AIRT          | ≥ | for wind speed class 2 and stability class A | ≥          | 7.600E-04  | ≥          | 0.000E+00  | ≥          | ---        | ≥     |
| DFREQ(2,1,11) |   |                                              |            |            |            |            |            |            |       |
| AIRT          | ≥ | for wind speed class 2 and stability class B | ≥          | 9.400E-04  | ≥          | 0.000E+00  | ≥          | ---        | ≥     |
| DFREQ(2,2,11) |   |                                              |            |            |            |            |            |            |       |
| AIRT          | ≥ | for wind speed class 2 and stability class C | ≥          | 2.840E-03  | ≥          | 0.000E+00  | ≥          | ---        | ≥     |
| DFREQ(2,3,11) |   |                                              |            |            |            |            |            |            |       |
| AIRT          | ≥ | for wind speed class 2 and stability class D | ≥          | 9.740E-03  | ≥          | 0.000E+00  | ≥          | ---        | ≥     |
| DFREQ(2,4,11) |   |                                              |            |            |            |            |            |            |       |
| AIRT          | ≥ | for wind speed class 2 and stability class E | ≥          | 1.630E-03  | ≥          | 0.000E+00  | ≥          | ---        | ≥     |
| DFREQ(2,5,11) |   |                                              |            |            |            |            |            |            |       |
| AIRT          | ≥ | for wind speed class 2 and stability class F | ≥          | 7.600E-04  | ≥          | 0.000E+00  | ≥          | ---        | ≥     |
| DFREQ(2,6,11) |   |                                              |            |            |            |            |            |            |       |
| ≥             |   |                                              | ≥          |            | ≥          |            | ≥          |            | ≥     |
| AIRT          | ≥ | Joint Frequency in SW Sector                 | ≥          |            | ≥          |            | ≥          |            | ≥     |
| AIRT          | ≥ | for wind speed class 3 and stability class A | ≥          | 1.000E-05  | ≥          | 0.000E+00  | ≥          | ---        | ≥     |
| DFREQ(3,1,11) |   |                                              |            |            |            |            |            |            |       |
| AIRT          | ≥ | for wind speed class 3 and stability class B | ≥          | 0.000E+00  | ≥          | 0.000E+00  | ≥          | ---        | ≥     |
| DFREQ(3,2,11) |   |                                              |            |            |            |            |            |            |       |
| AIRT          | ≥ | for wind speed class 3 and stability class C | ≥          | 9.000E-05  | ≥          | 0.000E+00  | ≥          | ---        | ≥     |
| DFREQ(3,3,11) |   |                                              |            |            |            |            |            |            |       |
| AIRT          | ≥ | for wind speed class 3 and stability class D | ≥          | 4.310E-03  | ≥          | 0.000E+00  | ≥          | ---        | ≥     |
| DFREQ(3,4,11) |   |                                              |            |            |            |            |            |            |       |
| AIRT          | ≥ | for wind speed class 3 and stability class E | ≥          | 4.100E-04  | ≥          | 0.000E+00  | ≥          | ---        | ≥     |
| DFREQ(3,5,11) |   |                                              |            |            |            |            |            |            |       |
| AIRT          | ≥ | for wind speed class 3 and stability class F | ≥          | 0.000E+00  | ≥          | 0.000E+00  | ≥          | ---        | ≥     |

|                                                     |             |             |   |     |   |
|-----------------------------------------------------|-------------|-------------|---|-----|---|
| DFREQ(3,6,11)                                       |             |             |   |     |   |
| ≥                                                   | ≥           | ≥           | ≥ | ≥   | ≥ |
| AIRT ≥ Joint Frequency in SW Sector                 | ≥           | ≥           | ≥ | ≥   | ≥ |
| AIRT ≥ for wind speed class 4 and stability class A | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(4,1,11)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 4 and stability class B | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(4,2,11)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 4 and stability class C | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(4,3,11)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 4 and stability class D | ≥ 4.700E-04 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(4,4,11)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 4 and stability class E | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(4,5,11)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 4 and stability class F | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(4,6,11)                                       |             |             |   |     |   |
| ≥                                                   | ≥           | ≥           | ≥ | ≥   | ≥ |
| AIRT ≥ Joint Frequency in SW Sector                 | ≥           | ≥           | ≥ | ≥   | ≥ |
| AIRT ≥ for wind speed class 5 and stability class A | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(5,1,11)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 5 and stability class B | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(5,2,11)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 5 and stability class C | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(5,3,11)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 5 and stability class D | ≥ 1.000E-05 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(5,4,11)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 5 and stability class E | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(5,5,11)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 5 and stability class F | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(5,6,11)                                       |             |             |   |     |   |
| ≥                                                   | ≥           | ≥           | ≥ | ≥   | ≥ |
| AIRT ≥ Joint Frequency in SW Sector                 | ≥           | ≥           | ≥ | ≥   | ≥ |
| AIRT ≥ for wind speed class 6 and stability class A | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(6,1,11)                                       |             |             |   |     |   |

|                                                                      |                                 |
|----------------------------------------------------------------------|---------------------------------|
| AIRT ≥ for wind speed class 6 and stability class B<br>DFREQ(6,2,11) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ --- ≥ |
| AIRT ≥ for wind speed class 6 and stability class C<br>DFREQ(6,3,11) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ --- ≥ |
| AIRT ≥ for wind speed class 6 and stability class D<br>DFREQ(6,4,11) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ --- ≥ |
| AIRT ≥ for wind speed class 6 and stability class E<br>DFREQ(6,5,11) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ --- ≥ |
| AIRT ≥ for wind speed class 6 and stability class F<br>DFREQ(6,6,11) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ --- ≥ |
| ≥                                                                    | ≥ ≥ ≥ ≥                         |
| AIRT ≥ Joint Frequency in WSW Sector                                 | ≥ ≥ ≥ ≥                         |
| AIRT ≥ for wind speed class 1 and stability class A<br>DFREQ(1,1,12) | ≥ 3.250E-03 ≥ 0.000E+00 ≥ --- ≥ |
| AIRT ≥ for wind speed class 1 and stability class B<br>DFREQ(1,2,12) | ≥ 1.040E-03 ≥ 0.000E+00 ≥ --- ≥ |
| AIRT ≥ for wind speed class 1 and stability class C<br>DFREQ(1,3,12) | ≥ 1.620E-03 ≥ 0.000E+00 ≥ --- ≥ |
| AIRT ≥ for wind speed class 1 and stability class D<br>DFREQ(1,4,12) | ≥ 4.740E-03 ≥ 0.000E+00 ≥ --- ≥ |
| AIRT ≥ for wind speed class 1 and stability class E<br>DFREQ(1,5,12) | ≥ 8.200E-04 ≥ 0.000E+00 ≥ --- ≥ |
| AIRT ≥ for wind speed class 1 and stability class F<br>DFREQ(1,6,12) | ≥ 1.630E-03 ≥ 0.000E+00 ≥ --- ≥ |

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File : INDUSTRIAL NO CAP BASE.ROF

## Site-Specific Parameter Summary (continued)

| 0 ≥       | ≥ User ≥  | RESRAD ≥     |
|-----------|-----------|--------------|
| Parameter | Input     | Default      |
| Menu ≥    | Parameter | ≥ computed ≥ |
|           |           | Name         |

fffff~ffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff~  
fffff

|                                                                      |             |             |       |   |
|----------------------------------------------------------------------|-------------|-------------|-------|---|
| AIRT ≥ Joint Frequency in WSW Sector                                 | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 2 and stability class A<br>DFREQ(2,1,12) | ≥ 1.130E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 2 and stability class B<br>DFREQ(2,2,12) | ≥ 1.430E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 2 and stability class C<br>DFREQ(2,3,12) | ≥ 3.870E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 2 and stability class D<br>DFREQ(2,4,12) | ≥ 7.670E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 2 and stability class E<br>DFREQ(2,5,12) | ≥ 8.200E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 2 and stability class F<br>DFREQ(2,6,12) | ≥ 3.100E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| ≥                                                                    | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ Joint Frequency in WSW Sector                                 | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 3 and stability class A<br>DFREQ(3,1,12) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class B<br>DFREQ(3,2,12) | ≥ 1.000E-05 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class C<br>DFREQ(3,3,12) | ≥ 4.000E-05 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class D<br>DFREQ(3,4,12) | ≥ 1.320E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class E<br>DFREQ(3,5,12) | ≥ 7.000E-05 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class F<br>DFREQ(3,6,12) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| ≥                                                                    | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ Joint Frequency in WSW Sector                                 | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 4 and stability class A                  | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |

|               |                                              |             |             |   |     |
|---------------|----------------------------------------------|-------------|-------------|---|-----|
| DFREQ(4,1,12) |                                              |             |             |   |     |
| AIRT ≥        | for wind speed class 4 and stability class B | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- |
| DFREQ(4,2,12) |                                              |             |             |   |     |
| AIRT ≥        | for wind speed class 4 and stability class C | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- |
| DFREQ(4,3,12) |                                              |             |             |   |     |
| AIRT ≥        | for wind speed class 4 and stability class D | ≥ 4.000E-05 | ≥ 0.000E+00 | ≥ | --- |
| DFREQ(4,4,12) |                                              |             |             |   |     |
| AIRT ≥        | for wind speed class 4 and stability class E | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- |
| DFREQ(4,5,12) |                                              |             |             |   |     |
| AIRT ≥        | for wind speed class 4 and stability class F | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- |
| DFREQ(4,6,12) |                                              |             |             |   |     |
| ≥             |                                              | ≥           | ≥           | ≥ | ≥   |
| AIRT ≥        | Joint Frequency in WSW Sector                | ≥           | ≥           | ≥ | ≥   |
| AIRT ≥        | for wind speed class 5 and stability class A | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- |
| DFREQ(5,1,12) |                                              |             |             |   |     |
| AIRT ≥        | for wind speed class 5 and stability class B | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- |
| DFREQ(5,2,12) |                                              |             |             |   |     |
| AIRT ≥        | for wind speed class 5 and stability class C | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- |
| DFREQ(5,3,12) |                                              |             |             |   |     |
| AIRT ≥        | for wind speed class 5 and stability class D | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- |
| DFREQ(5,4,12) |                                              |             |             |   |     |
| AIRT ≥        | for wind speed class 5 and stability class E | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- |
| DFREQ(5,5,12) |                                              |             |             |   |     |
| AIRT ≥        | for wind speed class 5 and stability class F | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- |
| DFREQ(5,6,12) |                                              |             |             |   |     |
| ≥             |                                              | ≥           | ≥           | ≥ | ≥   |
| AIRT ≥        | Joint Frequency in WSW Sector                | ≥           | ≥           | ≥ | ≥   |
| AIRT ≥        | for wind speed class 6 and stability class A | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- |
| DFREQ(6,1,12) |                                              |             |             |   |     |
| AIRT ≥        | for wind speed class 6 and stability class B | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- |
| DFREQ(6,2,12) |                                              |             |             |   |     |
| AIRT ≥        | for wind speed class 6 and stability class C | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- |
| DFREQ(6,3,12) |                                              |             |             |   |     |

|                                                                      |             |             |       |   |
|----------------------------------------------------------------------|-------------|-------------|-------|---|
| AIRT ≥ for wind speed class 6 and stability class D<br>DFREQ(6,4,12) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class E<br>DFREQ(6,5,12) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class F<br>DFREQ(6,6,12) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| ≥                                                                    | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ Joint Frequency in W Sector                                   | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 1 and stability class A<br>DFREQ(1,1,13) | ≥ 3.520E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class B<br>DFREQ(1,2,13) | ≥ 1.240E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class C<br>DFREQ(1,3,13) | ≥ 1.970E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class D<br>DFREQ(1,4,13) | ≥ 6.080E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class E<br>DFREQ(1,5,13) | ≥ 9.000E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class F<br>DFREQ(1,6,13) | ≥ 1.430E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |

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Site-Specific Parameter Summary (continued)

|                                                                                                                                             |   |           |      |       |   |         |                   |
|---------------------------------------------------------------------------------------------------------------------------------------------|---|-----------|------|-------|---|---------|-------------------|
| 0                                                                                                                                           | ≥ | ≥         | User | ≥     | ≥ | RESRAD  | ≥                 |
| Parameter                                                                                                                                   |   |           |      |       |   |         |                   |
| Menu                                                                                                                                        | ≥ | Parameter | ≥    | Input | ≥ | Default | ≥ computed ≥ Name |
| fffff~ffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff<br>fffff |   |           |      |       |   |         |                   |
| AIRT ≥ Joint Frequency in W Sector                                                                                                          | ≥ |           | ≥    |       | ≥ |         | ≥                 |

|                                                                      |                           |     |   |
|----------------------------------------------------------------------|---------------------------|-----|---|
| AIRT ≥ for wind speed class 2 and stability class A<br>DFREQ(2,1,13) | ≥ 1.450E-03 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 2 and stability class B<br>DFREQ(2,2,13) | ≥ 1.680E-03 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 2 and stability class C<br>DFREQ(2,3,13) | ≥ 4.500E-03 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 2 and stability class D<br>DFREQ(2,4,13) | ≥ 7.840E-03 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 2 and stability class E<br>DFREQ(2,5,13) | ≥ 6.000E-04 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 2 and stability class F<br>DFREQ(2,6,13) | ≥ 1.800E-04 ≥ 0.000E+00 ≥ | --- | ≥ |
| ≥                                                                    | ≥                         | ≥   | ≥ |
| AIRT ≥ Joint Frequency in W Sector                                   | ≥                         | ≥   | ≥ |
| AIRT ≥ for wind speed class 3 and stability class A<br>DFREQ(3,1,13) | ≥ 1.000E-05 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class B<br>DFREQ(3,2,13) | ≥ 1.000E-05 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class C<br>DFREQ(3,3,13) | ≥ 3.000E-05 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class D<br>DFREQ(3,4,13) | ≥ 6.300E-04 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class E<br>DFREQ(3,5,13) | ≥ 1.000E-05 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class F<br>DFREQ(3,6,13) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| ≥                                                                    | ≥                         | ≥   | ≥ |
| AIRT ≥ Joint Frequency in W Sector                                   | ≥                         | ≥   | ≥ |
| AIRT ≥ for wind speed class 4 and stability class A<br>DFREQ(4,1,13) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class B<br>DFREQ(4,2,13) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class C                  | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |



|                                                     |             |             |   |     |   |
|-----------------------------------------------------|-------------|-------------|---|-----|---|
| DFREQ(4,3,13)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 4 and stability class D | ≥ 2.000E-05 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(4,4,13)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 4 and stability class E | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(4,5,13)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 4 and stability class F | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(4,6,13)                                       |             |             |   |     |   |
| ≥                                                   | ≥           | ≥           | ≥ |     | ≥ |
| AIRT ≥ Joint Frequency in W Sector                  | ≥           | ≥           | ≥ |     | ≥ |
| AIRT ≥ for wind speed class 5 and stability class A | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(5,1,13)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 5 and stability class B | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(5,2,13)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 5 and stability class C | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(5,3,13)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 5 and stability class D | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(5,4,13)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 5 and stability class E | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(5,5,13)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 5 and stability class F | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(5,6,13)                                       |             |             |   |     |   |
| ≥                                                   | ≥           | ≥           | ≥ |     | ≥ |
| AIRT ≥ Joint Frequency in W Sector                  | ≥           | ≥           | ≥ |     | ≥ |
| AIRT ≥ for wind speed class 6 and stability class A | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(6,1,13)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 6 and stability class B | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(6,2,13)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 6 and stability class C | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(6,3,13)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 6 and stability class D | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(6,4,13)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 6 and stability class E | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(6,5,13)                                       |             |             |   |     |   |

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| 0         | ≥ |           | ≥ | User  | ≥ |         | ≥ | RESRAD   | ≥ |
|-----------|---|-----------|---|-------|---|---------|---|----------|---|
| Parameter |   |           |   |       |   |         |   |          |   |
| Menu      | ≥ | Parameter | ≥ | Input | ≥ | Default | ≥ | computed | ≥ |

|                                                                           |                         |                         |        |        |
|---------------------------------------------------------------------------|-------------------------|-------------------------|--------|--------|
| AIRT $\geq$ Joint Frequency in WNW Sector                                 | $\geq$                  | $\geq$                  | $\geq$ | $\geq$ |
| AIRT $\geq$ for wind speed class 2 and stability class A<br>DFREQ(2,1,14) | $\geq 1.620\text{E-}03$ | $\geq 0.000\text{E+}00$ | $\geq$ | ---    |
| AIRT $\geq$ for wind speed class 2 and stability class B<br>DFREQ(2,2,14) | $\geq 1.970\text{E-}03$ | $\geq 0.000\text{E+}00$ | $\geq$ | ---    |

|                                                                      |                           |     |   |
|----------------------------------------------------------------------|---------------------------|-----|---|
| AIRT ≥ for wind speed class 2 and stability class C<br>DFREQ(2,3,14) | ≥ 5.130E-03 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 2 and stability class D<br>DFREQ(2,4,14) | ≥ 8.220E-03 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 2 and stability class E<br>DFREQ(2,5,14) | ≥ 8.100E-04 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 2 and stability class F<br>DFREQ(2,6,14) | ≥ 2.600E-04 ≥ 0.000E+00 ≥ | --- | ≥ |
| ≥                                                                    | ≥                         | ≥   | ≥ |
| AIRT ≥ Joint Frequency in WNW Sector                                 | ≥                         | ≥   | ≥ |
| AIRT ≥ for wind speed class 3 and stability class A<br>DFREQ(3,1,14) | ≥ 1.000E-05 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class B<br>DFREQ(3,2,14) | ≥ 1.000E-05 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class C<br>DFREQ(3,3,14) | ≥ 9.000E-05 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class D<br>DFREQ(3,4,14) | ≥ 9.000E-04 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class E<br>DFREQ(3,5,14) | ≥ 6.000E-05 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class F<br>DFREQ(3,6,14) | ≥ 1.000E-05 ≥ 0.000E+00 ≥ | --- | ≥ |
| ≥                                                                    | ≥                         | ≥   | ≥ |
| AIRT ≥ Joint Frequency in WNW Sector                                 | ≥                         | ≥   | ≥ |
| AIRT ≥ for wind speed class 4 and stability class A<br>DFREQ(4,1,14) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class B<br>DFREQ(4,2,14) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class C<br>DFREQ(4,3,14) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class D<br>DFREQ(4,4,14) | ≥ 6.000E-05 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class E                  | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |

|                                                     |             |             |   |     |   |
|-----------------------------------------------------|-------------|-------------|---|-----|---|
| DFREQ(4,5,14)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 4 and stability class F | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(4,6,14)                                       |             |             |   |     |   |
| ≥                                                   | ≥           | ≥           | ≥ |     | ≥ |
| AIRT ≥ Joint Frequency in WNW Sector                | ≥           | ≥           | ≥ |     | ≥ |
| AIRT ≥ for wind speed class 5 and stability class A | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(5,1,14)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 5 and stability class B | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(5,2,14)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 5 and stability class C | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(5,3,14)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 5 and stability class D | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(5,4,14)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 5 and stability class E | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(5,5,14)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 5 and stability class F | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(5,6,14)                                       |             |             |   |     |   |
| ≥                                                   | ≥           | ≥           | ≥ |     | ≥ |
| AIRT ≥ Joint Frequency in WNW Sector                | ≥           | ≥           | ≥ |     | ≥ |
| AIRT ≥ for wind speed class 6 and stability class A | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(6,1,14)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 6 and stability class B | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(6,2,14)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 6 and stability class C | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(6,3,14)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 6 and stability class D | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(6,4,14)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 6 and stability class E | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(6,5,14)                                       |             |             |   |     |   |
| AIRT ≥ for wind speed class 6 and stability class F | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ | --- | ≥ |
| DFREQ(6,6,14)                                       |             |             |   |     |   |
| ≥                                                   | ≥           | ≥           | ≥ |     | ≥ |
| AIRT ≥ Joint Frequency in NW Sector                 | ≥           | ≥           | ≥ |     | ≥ |

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| 0         | ≥ | ≥         | User | ≥     | ≥ | RESRAD  | ≥            |
|-----------|---|-----------|------|-------|---|---------|--------------|
| Parameter |   |           |      |       |   |         |              |
| Menu      | ≥ | Parameter | ≥    | Input | ≥ | Default | ≥ computed ≥ |

|                                                                           |                         |                         |        |        |
|---------------------------------------------------------------------------|-------------------------|-------------------------|--------|--------|
| AIRT $\geq$ Joint Frequency in NW Sector                                  | $\geq$                  | $\geq$                  | $\geq$ | $\geq$ |
| AIRT $\geq$ for wind speed class 2 and stability class A<br>DFREQ(2,1,15) | $\geq 1.630\text{E-}03$ | $\geq 0.000\text{E+}00$ | $\geq$ | ---    |
| AIRT $\geq$ for wind speed class 2 and stability class B<br>DFREQ(2,2,15) | $\geq 2.360\text{E-}03$ | $\geq 0.000\text{E+}00$ | $\geq$ | ---    |
| AIRT $\geq$ for wind speed class 2 and stability class C<br>DFREQ(2,3,15) | $\geq 6.430\text{E-}03$ | $\geq 0.000\text{E+}00$ | $\geq$ | ---    |
| AIRT $\geq$ for wind speed class 2 and stability class D<br>DFREQ(2,4,15) | $\geq 1.140\text{E-}02$ | $\geq 0.000\text{E+}00$ | $\geq$ | ---    |

|                                                                      |                           |     |   |
|----------------------------------------------------------------------|---------------------------|-----|---|
| AIRT ≥ for wind speed class 2 and stability class E<br>DFREQ(2,5,15) | ≥ 1.150E-03 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 2 and stability class F<br>DFREQ(2,6,15) | ≥ 4.700E-04 ≥ 0.000E+00 ≥ | --- | ≥ |
| ≥                                                                    | ≥ ≥ ≥                     |     | ≥ |
| AIRT ≥ Joint Frequency in NW Sector                                  | ≥ ≥ ≥                     |     | ≥ |
| AIRT ≥ for wind speed class 3 and stability class A<br>DFREQ(3,1,15) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class B<br>DFREQ(3,2,15) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class C<br>DFREQ(3,3,15) | ≥ 2.500E-04 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class D<br>DFREQ(3,4,15) | ≥ 3.490E-03 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class E<br>DFREQ(3,5,15) | ≥ 1.400E-04 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class F<br>DFREQ(3,6,15) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| ≥                                                                    | ≥ ≥ ≥                     |     | ≥ |
| AIRT ≥ Joint Frequency in NW Sector                                  | ≥ ≥ ≥                     |     | ≥ |
| AIRT ≥ for wind speed class 4 and stability class A<br>DFREQ(4,1,15) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class B<br>DFREQ(4,2,15) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class C<br>DFREQ(4,3,15) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class D<br>DFREQ(4,4,15) | ≥ 1.200E-04 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class E<br>DFREQ(4,5,15) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class F<br>DFREQ(4,6,15) | ≥ 0.000E+00 ≥ 0.000E+00 ≥ | --- | ≥ |
| ≥                                                                    | ≥ ≥ ≥                     |     | ≥ |

|                                                                      |             |             |       |   |
|----------------------------------------------------------------------|-------------|-------------|-------|---|
| AIRT ≥ Joint Frequency in NW Sector                                  | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 5 and stability class A<br>DFREQ(5,1,15) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class B<br>DFREQ(5,2,15) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class C<br>DFREQ(5,3,15) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class D<br>DFREQ(5,4,15) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class E<br>DFREQ(5,5,15) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class F<br>DFREQ(5,6,15) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| ≥                                                                    | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ Joint Frequency in NW Sector                                  | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 6 and stability class A<br>DFREQ(6,1,15) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class B<br>DFREQ(6,2,15) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class C<br>DFREQ(6,3,15) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class D<br>DFREQ(6,4,15) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class E<br>DFREQ(6,5,15) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 6 and stability class F<br>DFREQ(6,6,15) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| ≥                                                                    | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ Joint Frequency in NNW Sector                                 | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 1 and stability class A<br>DFREQ(1,1,16) | ≥ 2.100E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 1 and stability class B<br>DFREQ(1,2,16) | ≥ 6.100E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |

|                                                                      |                                 |
|----------------------------------------------------------------------|---------------------------------|
| AIRT ≥ for wind speed class 1 and stability class C<br>DFREQ(1,3,16) | ≥ 8.800E-04 ≥ 0.000E+00 ≥ --- ≥ |
| AIRT ≥ for wind speed class 1 and stability class D<br>DFREQ(1,4,16) | ≥ 4.200E-03 ≥ 0.000E+00 ≥ --- ≥ |
| AIRT ≥ for wind speed class 1 and stability class E<br>DFREQ(1,5,16) | ≥ 1.240E-03 ≥ 0.000E+00 ≥ --- ≥ |
| AIRT ≥ for wind speed class 1 and stability class F<br>DFREQ(1,6,16) | ≥ 1.880E-03 ≥ 0.000E+00 ≥ --- ≥ |

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|           |                                          |            |
|-----------|------------------------------------------|------------|
| 0 ≥       | ≥ User ≥                                 | ≥ RESRAD ≥ |
| Parameter |                                          |            |
| Menu ≥    | Parameter ≥ Input ≥ Default ≥ computed ≥ | Name       |

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fffff

|                                                                      |                                                                        |
|----------------------------------------------------------------------|------------------------------------------------------------------------|
| AIRT ≥ Joint Frequency in NNW Sector                                 | ≥                      ≥                      ≥                      ≥ |
| AIRT ≥ for wind speed class 2 and stability class A<br>DFREQ(2,1,16) | ≥ 1.640E-03 ≥ 0.000E+00 ≥ --- ≥                                        |
| AIRT ≥ for wind speed class 2 and stability class B<br>DFREQ(2,2,16) | ≥ 2.250E-03 ≥ 0.000E+00 ≥ --- ≥                                        |
| AIRT ≥ for wind speed class 2 and stability class C<br>DFREQ(2,3,16) | ≥ 8.170E-03 ≥ 0.000E+00 ≥ --- ≥                                        |
| AIRT ≥ for wind speed class 2 and stability class D<br>DFREQ(2,4,16) | ≥ 1.822E-02 ≥ 0.000E+00 ≥ --- ≥                                        |
| AIRT ≥ for wind speed class 2 and stability class E<br>DFREQ(2,5,16) | ≥ 2.150E-03 ≥ 0.000E+00 ≥ --- ≥                                        |
| AIRT ≥ for wind speed class 2 and stability class F<br>DFREQ(2,6,16) | ≥ 5.300E-04 ≥ 0.000E+00 ≥ --- ≥                                        |



|                                                                      |             |             |       |   |
|----------------------------------------------------------------------|-------------|-------------|-------|---|
| ≥                                                                    | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ Joint Frequency in NNW Sector                                 | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 3 and stability class A<br>DFREQ(3,1,16) | ≥ 1.000E-05 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class B<br>DFREQ(3,2,16) | ≥ 1.000E-05 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class C<br>DFREQ(3,3,16) | ≥ 6.600E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class D<br>DFREQ(3,4,16) | ≥ 1.573E-02 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class E<br>DFREQ(3,5,16) | ≥ 3.000E-04 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 3 and stability class F<br>DFREQ(3,6,16) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| ≥                                                                    | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ Joint Frequency in NNW Sector                                 | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 4 and stability class A<br>DFREQ(4,1,16) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class B<br>DFREQ(4,2,16) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class C<br>DFREQ(4,3,16) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class D<br>DFREQ(4,4,16) | ≥ 2.270E-03 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class E<br>DFREQ(4,5,16) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 4 and stability class F<br>DFREQ(4,6,16) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| ≥                                                                    | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ Joint Frequency in NNW Sector                                 | ≥           | ≥           | ≥     | ≥ |
| AIRT ≥ for wind speed class 5 and stability class A<br>DFREQ(5,1,16) | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |
| AIRT ≥ for wind speed class 5 and stability class B                  | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ |

|                                                              |             |              |   |     |             |
|--------------------------------------------------------------|-------------|--------------|---|-----|-------------|
| DFREQ(5,2,16)                                                |             |              |   |     |             |
| AIRT ≥ for wind speed class 5 and stability class C          | ≥ 0.000E+00 | ≥ 0.000E+00  | ≥ | --- | ≥           |
| DFREQ(5,3,16)                                                |             |              |   |     |             |
| AIRT ≥ for wind speed class 5 and stability class D          | ≥ 2.000E-05 | ≥ 0.000E+00  | ≥ | --- | ≥           |
| DFREQ(5,4,16)                                                |             |              |   |     |             |
| AIRT ≥ for wind speed class 5 and stability class E          | ≥ 0.000E+00 | ≥ 0.000E+00  | ≥ | --- | ≥           |
| DFREQ(5,5,16)                                                |             |              |   |     |             |
| AIRT ≥ for wind speed class 5 and stability class F          | ≥ 0.000E+00 | ≥ 0.000E+00  | ≥ | --- | ≥           |
| DFREQ(5,6,16)                                                |             |              |   |     |             |
| ≥                                                            | ≥           | ≥            | ≥ |     | ≥           |
| AIRT ≥ Joint Frequency in NNW Sector                         | ≥           | ≥            | ≥ |     | ≥           |
| AIRT ≥ for wind speed class 6 and stability class A          | ≥ 0.000E+00 | ≥ 0.000E+00  | ≥ | --- | ≥           |
| DFREQ(6,1,16)                                                |             |              |   |     |             |
| AIRT ≥ for wind speed class 6 and stability class B          | ≥ 0.000E+00 | ≥ 0.000E+00  | ≥ | --- | ≥           |
| DFREQ(6,2,16)                                                |             |              |   |     |             |
| AIRT ≥ for wind speed class 6 and stability class C          | ≥ 0.000E+00 | ≥ 0.000E+00  | ≥ | --- | ≥           |
| DFREQ(6,3,16)                                                |             |              |   |     |             |
| AIRT ≥ for wind speed class 6 and stability class D          | ≥ 0.000E+00 | ≥ 0.000E+00  | ≥ | --- | ≥           |
| DFREQ(6,4,16)                                                |             |              |   |     |             |
| AIRT ≥ for wind speed class 6 and stability class E          | ≥ 0.000E+00 | ≥ 0.000E+00  | ≥ | --- | ≥           |
| DFREQ(6,5,16)                                                |             |              |   |     |             |
| AIRT ≥ for wind speed class 6 and stability class F          | ≥ 0.000E+00 | ≥ 0.000E+00  | ≥ | --- | ≥           |
| DFREQ(6,6,16)                                                |             |              |   |     |             |
| AIRT ≥ Spacing of points used for areal integration, (m)     | ≥ 1.000E+01 | ≥ 1.000E+01  | ≥ | --- | ≥ ATGRID    |
| ≥                                                            | ≥           | ≥            | ≥ |     | ≥           |
| GWTR ≥ fractional accuracy desired - convergence criteria    | ≥ 1.000E-03 | ≥ 1.000E-03  | ≥ | --- | ≥ EPS       |
| GWTR ≥ Distance from d/g edge of contamination to Well, (m)  | ≥ 1.680E+03 | ≥ 1.000E+02  | ≥ | --- | ≥ OFFLPAQW  |
| GWTR ≥ Contamination to Well c/c distance normal to flow, m  | ≥ 2.190E+02 | ≥ 0.000E+00  | ≥ | --- | ≥ OFFLNAQW  |
| GWTR ≥ Distance from d/g edge of cz to surface water, (m)    | ≥ 1.623E+03 | ≥ 4.500E+02  | ≥ | --- | ≥ OFFLPAQS  |
| GWTR ≥ Contamination to near edge of swb, c/c normal to flow | ≥ 1.568E+03 | ≥ -1.500E+02 | ≥ | --- | ≥ OFFLNAQSN |
| GWTR ≥ Contamination to far edge of swb, c/c normal to flow  | ≥ 1.630E+03 | ≥ 1.500E+02  | ≥ | --- | ≥ OFFLNAQSF |

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## Site-Specific Parameter Summary (continued)

| Parameter                                                                                                                           | User      | RESRAD    |          |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|----------|
| Menu                                                                                                                                | Input     | Default   | computed |
| Parameter                                                                                                                           | Input     | Default   | computed |
| GWTR ≥ Number of main sub zones in saturated stratum                                                                                | 1         | 1         | ---      |
| GWTR ≥ Number of minor sub zones in last main SZ sub zone                                                                           | 1         | 1         | ---      |
| GWTR ≥ Number of main sub zones in each unsaturated stratum                                                                         | 1         | 1         | ---      |
| GWTR ≥ Number of minor sub zones in last main UZ sub zone                                                                           | 1         | 1         | ---      |
| GWTR ≥ Distribution coefficient and longitudinal dispersion                                                                         | 1         | 1         | ---      |
| ≥ 1 = Nuclide specific distrubution coefficients in all subzones. Longitudinal dispersion in all but the subzone of transformation. |           |           |          |
| GWTR ≥ Retardation factor flag for groundwater transport                                                                            | 0         | 0         | ---      |
| ≥ 0 = (total porosity + distribution coefficient*dry bulk density) / total porosity                                                 |           |           |          |
| USZN ≥ Number of unsaturated zone strata                                                                                            | 4         | 1         | ---      |
| USZN ≥ Unsat. zone 1, thickness (m)                                                                                                 | 9.480E+01 | 4.000E+00 | ---      |
| USZN ≥ Unsat. zone 1, soil density (g/cm**3)                                                                                        | 1.240E+00 | 1.500E+00 | ---      |
| USZN ≥ Unsat. zone 1, total porosity                                                                                                | 4.400E-01 | 4.000E-01 | ---      |
| USZN ≥ Unsat. zone 1, effective porosity                                                                                            | 4.400E-01 | 2.000E-01 | ---      |
| USZN ≥ Unsat. zone 1, field capacity                                                                                                | 8.800E-03 | 3.000E-01 | ---      |
| USZN ≥ Unsat. zone 1, hydraulic conductivity (m/yr)                                                                                 | 3.340E+01 | 1.000E+01 | ---      |
| USZN ≥ Unsat. zone 1, soil-specific b parameter                                                                                     | 1.000E+00 | 5.300E+00 | ---      |
| USZN ≥ Unsat. zone 1, longitudinal dispersivity (m)                                                                                 | 1.000E+00 | 1.000E-01 | ---      |
| USZN ≥ Unsat. zone 2, thickness (m)                                                                                                 | 3.200E+01 | 0.000E+00 | ---      |
| USZN ≥ Unsat. zone 2, soil density (g/cm**3)                                                                                        | 1.200E+00 | 1.500E+00 | ---      |
| USZN ≥ Unsat. zone 2, total porosity                                                                                                | 5.000E-01 | 4.000E-01 | ---      |

|                                                     |             |             |       |              |
|-----------------------------------------------------|-------------|-------------|-------|--------------|
| USZN ≥ Unsat. zone 2, effective porosity            | ≥ 5.000E-01 | ≥ 2.000E-01 | ≥ --- | ≥ EPUZ(2)    |
| USZN ≥ Unsat. zone 2, field capacity                | ≥ 3.500E-03 | ≥ 3.000E-01 | ≥ --- | ≥ FCUZ(2)    |
| USZN ≥ Unsat. zone 2, hydraulic conductivity (m/yr) | ≥ 4.100E+01 | ≥ 1.000E+01 | ≥ --- | ≥ HCUZ(2)    |
| USZN ≥ Unsat. zone 2, soil-specific b parameter     | ≥ 2.600E+00 | ≥ 5.300E+00 | ≥ --- | ≥ BUZ(2)     |
| USZN ≥ Unsat. zone 2, longitudinal dispersivity (m) | ≥ 1.000E+00 | ≥ 1.000E-01 | ≥ --- | ≥ ALPHALU(2) |
| ≥                                                   | ≥           | ≥           | ≥     | ≥            |
| USZN ≥ Unsat. zone 3, thickness (m)                 | ≥ 5.670E+01 | ≥ 0.000E+00 | ≥ --- | ≥ H(3)       |
| USZN ≥ Unsat. zone 3, soil density (g/cm**3)        | ≥ 1.170E+00 | ≥ 1.500E+00 | ≥ --- | ≥ DENSUZ(3)  |
| USZN ≥ Unsat. zone 3, total porosity                | ≥ 4.600E-01 | ≥ 4.000E-01 | ≥ --- | ≥ TPUZ(3)    |
| USZN ≥ Unsat. zone 3, effective porosity            | ≥ 4.600E-01 | ≥ 2.000E-01 | ≥ --- | ≥ EPUZ(3)    |
| USZN ≥ Unsat. zone 3, field capacity                | ≥ 2.000E-02 | ≥ 3.000E-01 | ≥ --- | ≥ FCUZ(3)    |
| USZN ≥ Unsat. zone 3, hydraulic conductivity (m/yr) | ≥ 6.690E+01 | ≥ 1.000E+01 | ≥ --- | ≥ HCUZ(3)    |
| USZN ≥ Unsat. zone 3, soil-specific b parameter     | ≥ 1.500E+00 | ≥ 5.300E+00 | ≥ --- | ≥ BUZ(3)     |
| USZN ≥ Unsat. zone 3, longitudinal dispersivity (m) | ≥ 1.000E+00 | ≥ 1.000E-01 | ≥ --- | ≥ ALPHALU(3) |
| ≥                                                   | ≥           | ≥           | ≥     | ≥            |
| USZN ≥ Unsat. zone 4, thickness (m)                 | ≥ 1.360E+02 | ≥ 0.000E+00 | ≥ --- | ≥ H(4)       |
| USZN ≥ Unsat. zone 4, soil density (g/cm**3)        | ≥ 1.610E+00 | ≥ 1.500E+00 | ≥ --- | ≥ DENSUZ(4)  |
| USZN ≥ Unsat. zone 4, total porosity                | ≥ 2.100E-01 | ≥ 4.000E-01 | ≥ --- | ≥ TPUZ(4)    |
| USZN ≥ Unsat. zone 4, effective porosity            | ≥ 2.100E-01 | ≥ 2.000E-01 | ≥ --- | ≥ EPUZ(4)    |
| USZN ≥ Unsat. zone 4, field capacity                | ≥ 2.000E-02 | ≥ 3.000E-01 | ≥ --- | ≥ FCUZ(4)    |
| USZN ≥ Unsat. zone 4, hydraulic conductivity (m/yr) | ≥ 1.270E+01 | ≥ 1.000E+01 | ≥ --- | ≥ HCUZ(4)    |
| USZN ≥ Unsat. zone 4, soil-specific b parameter     | ≥ 9.000E-01 | ≥ 5.300E+00 | ≥ --- | ≥ BUZ(4)     |
| USZN ≥ Unsat. zone 4, longitudinal dispersivity (m) | ≥ 1.000E+00 | ≥ 1.000E-01 | ≥ --- | ≥ ALPHALU(4) |

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|           |           |   |       |   |         |        |                 |
|-----------|-----------|---|-------|---|---------|--------|-----------------|
| 0         | ≥         | ≥ | User  | ≥ | ≥       | RESRAD | ≥               |
| Parameter |           |   |       |   |         |        |                 |
| Menu ≥    | Parameter | ≥ | Input | ≥ | Default | ≥      | computed ≥ Name |

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|                                                             |             |             |       |              |
|-------------------------------------------------------------|-------------|-------------|-------|--------------|
| SZNE ≥ Well pump intake depth (m below water table)         | ≥ 3.780E+02 | ≥ 1.000E+01 | ≥ --- | ≥ DWIBWT     |
| SZNE ≥ Depth of aquifer contributing to surface water body  | ≥ 1.000E+01 | ≥ 1.000E+01 | ≥ --- | ≥ DPTHAQSW   |
| SZNE ≥ Thickness of saturated zone (m)                      | ≥ 9.360E+02 | ≥ 1.000E+02 | ≥ --- | ≥ DPTHAQ     |
| SZNE ≥ Density of saturated zone (g/cm**3)                  | ≥ 1.610E+00 | ≥ 1.500E+00 | ≥ --- | ≥ DENSAQ     |
| SZNE ≥ Saturated zone total porosity                        | ≥ 1.000E-01 | ≥ 4.000E-01 | ≥ --- | ≥ TPSZ       |
| SZNE ≥ Saturated zone effective porosity                    | ≥ 1.000E-01 | ≥ 2.000E-01 | ≥ --- | ≥ EPSZ       |
| SZNE ≥ Saturated zone hydraulic conductivity (m/yr)         | ≥ 8.400E+02 | ≥ 1.000E+02 | ≥ --- | ≥ HCSZ       |
| SZNE ≥ Saturated zone hydraulic gradient to well            | ≥ 1.400E-02 | ≥ 2.000E-02 | ≥ --- | ≥ HGW        |
| SZNE ≥ Satur. zone hydraulic gradient to surface water body | ≥ 2.000E-02 | ≥ 2.000E-02 | ≥ --- | ≥ HGSW       |
| SZNE ≥ longitudinal dispersivity to well (m)                | ≥ 1.000E+01 | ≥ 3.000E+00 | ≥ --- | ≥ ALPHALLOW  |
| SZNE ≥ longitudinal dispersivity to SWB (m)                 | ≥ 1.000E+01 | ≥ 1.000E+01 | ≥ --- | ≥ ALPHALOSW  |
| SZNE ≥ lateral (horizontal) dispersivity to well (m)        | ≥ 1.000E+00 | ≥ 4.000E-01 | ≥ --- | ≥ ALPHATW    |
| SZNE ≥ lateral (horizontal) dispersivity to SWB (m)         | ≥ 1.000E+00 | ≥ 1.000E+00 | ≥ --- | ≥ ALPHATSW   |
| SZNE ≥ lateral (vertical) dispersivity to well (m)          | ≥ 2.000E-02 | ≥ 2.000E-02 | ≥ --- | ≥ ALPHAVW    |
| SZNE ≥ lateral (vertical) dispersivity to SWB (m)           | ≥ 6.000E-02 | ≥ 6.000E-02 | ≥ --- | ≥ ALPHAVSW   |
| SZNE ≥ Irrigation rate over aquifer to well (m/yr)          | ≥ not used  | ≥ 2.000E-01 | ≥ --- | ≥ RIAQW      |
| SZNE ≥ Irrigation rate over aquifer to SWB (m/yr)           | ≥ not used  | ≥ 2.000E-01 | ≥ --- | ≥ RIAQSW     |
| SZNE ≥ Evapotranspiration coefficient over aquifer to well  | ≥ not used  | ≥ 5.000E-01 | ≥ --- | ≥ EVAPTRAQW  |
| SZNE ≥ Evapotranspiration coefficient over aquifer to SWB   | ≥ not used  | ≥ 5.000E-01 | ≥ --- | ≥ EVAPTRAQSW |
| SZNE ≥ Runoff coefficient over aquifer to well              | ≥ not used  | ≥ 2.000E-01 | ≥ --- | ≥ RUNOFFAQW  |
| SZNE ≥ Runoff coefficient over aquifer to SWB               | ≥ not used  | ≥ 2.000E-01 | ≥ --- | ≥ RUNOFFAQSW |
| SZNE ≥ Concentration of mobile colloids in the aquifer      | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ CCOL       |
| SZNE ≥ Water - Soil Distribution coefficient of colloids    | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ K1Col      |
| SZNE ≥ Water - Mobile Colloids Distribution coefficient     | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ K3Col      |
| ≥                                                           | ≥           | ≥           | ≥     | ≥            |
| WTRU ≥ Drinking water intake (L/yr)                         | ≥ 5.100E+02 | ≥ 5.100E+02 | ≥ --- | ≥ DWI        |
| WTRU ≥ Fraction of drinking water from surface water        | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ FSWD       |
| WTRU ≥ Fraction of drinking water from well water           | ≥ 1.000E+00 | ≥ 1.000E+00 | ≥ --- | ≥ FWWD       |
| WTRU ≥ Fraction of household water from surface water       | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ FSWHH      |
| WTRU ≥ Fraction of household water from well water          | ≥ 1.000E+00 | ≥ 1.000E+00 | ≥ --- | ≥ FWWHH      |
| WTRU ≥ Livestock water intake for meat 1 (L/day)            | ≥ not used  | ≥ 5.000E+01 | ≥ --- | ≥ LWI(1)     |

|                                                          |             |             |       |             |
|----------------------------------------------------------|-------------|-------------|-------|-------------|
| WTRU ≥ Fraction of livestock water 1 from surface water  | ≥ not used  | ≥ 0.000E+00 | ≥ --- | ≥ FSWLV(1)  |
| WTRU ≥ Fraction of livestock water 1 from well water     | ≥ not used  | ≥ 1.000E+00 | ≥ --- | ≥ FWLV(1)   |
| WTRU ≥ Livestock water intake for milk (L/day)           | ≥ not used  | ≥ 1.600E+02 | ≥ --- | ≥ LWI(2)    |
| WTRU ≥ Fraction of dairy cow water from surface water    | ≥ not used  | ≥ 0.000E+00 | ≥ --- | ≥ FSWLV(2)  |
| WTRU ≥ Fraction of dairy cow water from well water       | ≥ not used  | ≥ 1.000E+00 | ≥ --- | ≥ FWLV(2)   |
| WTRU ≥ Irrigation rate in Agricultural Area 1 (m/yr)     | ≥ 0.000E+00 | ≥ 2.000E-01 | ≥ --- | ≥ RIRRIG(1) |
| WTRU ≥ Fraction of irrigation water 1 from surface water | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ FSWIR(1)  |
| WTRU ≥ Fraction of irrigation water 1 from well water    | ≥ 1.000E+00 | ≥ 1.000E+00 | ≥ --- | ≥ FWIR(1)   |
| WTRU ≥ Irrigation rate in Agricultural Area 2 (m/yr)     | ≥ 0.000E+00 | ≥ 2.000E-01 | ≥ --- | ≥ RIRRIG(2) |
| WTRU ≥ Fraction of irrigation water 2 from surface water | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ FSWIR(2)  |
| WTRU ≥ Fraction of irrigation water 2 from well water    | ≥ 1.000E+00 | ≥ 1.000E+00 | ≥ --- | ≥ FWIR(2)   |
| WTRU ≥ Irrigation rate in Agricultural Area 3 (m/yr)     | ≥ 0.000E+00 | ≥ 2.000E-01 | ≥ --- | ≥ RIRRIG(3) |
| WTRU ≥ Fraction of irrigation water 3 from surface water | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ FSWIR(3)  |
| WTRU ≥ Fraction of irrigation water 3 from well water    | ≥ 1.000E+00 | ≥ 1.000E+00 | ≥ --- | ≥ FWIR(3)   |
| WTRU ≥ Irrigation rate in Agricultural Area 4 (m/yr)     | ≥ 0.000E+00 | ≥ 2.000E-01 | ≥ --- | ≥ RIRRIG(4) |
| WTRU ≥ Fraction of irrigation water 4 from surface water | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ FSWIR(4)  |

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## Site-Specific Parameter Summary (continued)

| 0                                                      | ≥           | ≥ User      | ≥         | ≥ RESRAD     | ≥      |
|--------------------------------------------------------|-------------|-------------|-----------|--------------|--------|
| Parameter                                              |             |             |           |              |        |
| Menu ≥                                                 | Parameter   | ≥ Input     | ≥ Default | ≥ computed   | ≥ Name |
| fffff~                                                 | fffff~      | fffff~      | fffff~    | fffff~       | fffff~ |
| fffff                                                  | fffff       | fffff       | fffff     | fffff        | fffff  |
| WTRU ≥ Fraction of irrigation water 4 from well water  | ≥ 1.000E+00 | ≥ 1.000E+00 | ≥ ---     | ≥ FWIR(4)    |        |
| WTRU ≥ Irrigation rate in Offsite dwelling site (m/yr) | ≥ 0.000E+00 | ≥ 2.000E-01 | ≥ ---     | ≥            |        |
| RIRRIGDWELL                                            |             |             |           |              |        |
| WTRU ≥ Fraction of irrigation water from surface water | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ ---     | ≥ FSWIRDWELL |        |
| WTRU ≥ Fraction of irrigation water from well water    | ≥ 1.000E+00 | ≥ 1.000E+00 | ≥ ---     | ≥ FWIRDWELL  |        |

|                                                            |             |             |       |             |
|------------------------------------------------------------|-------------|-------------|-------|-------------|
| WTRU ≥ Well pumping rate (m**3/yr)                         | ≥ 1.000E+05 | ≥ 5.100E+03 | ≥ --- | ≥ UW        |
| ≥                                                          | ≥           | ≥           | ≥     | ≥           |
| SWBY ≥ Sediment delivery ratio                             | ≥ 1.000E+00 | ≥ 1.000E+00 | ≥ --- | ≥ SDR       |
| SWBY ≥ Volume of surface water body                        | ≥ 1.500E+05 | ≥ 1.500E+05 | ≥ --- | ≥ VLAKE     |
| SWBY ≥ Mean residence time of water in surface water body  | ≥ 1.000E+00 | ≥ 1.000E+00 | ≥ --- | ≥ TLAKE     |
| SWBY ≥ Surface area of water in surface water body         | ≥ 3.172E+03 | ≥ 9.000E+04 | ≥ --- | ≥ ALAKE     |
| ≥                                                          | ≥           | ≥           | ≥     | ≥           |
| INGE ≥ Fish consumption (kg/yr)                            | ≥ not used  | ≥ 5.400E+00 | ≥ --- | ≥ DFI(1)    |
| INGE ≥ Fraction of Fish from affected area                 | ≥ not used  | ≥ 5.000E-01 | ≥ --- | ≥ FFISH(1)  |
| INGE ≥ Other Aquatic food consumption (kg/yr)              | ≥ not used  | ≥ 9.000E-01 | ≥ --- | ≥ DFI(2)    |
| INGE ≥ Fraction of Aquatic food from affected area         | ≥ not used  | ≥ 5.000E-01 | ≥ --- | ≥ FFISH(2)  |
| INGE ≥ Non-Leafy vegetables consumption (kg/yr)            | ≥ not used  | ≥ 1.600E+02 | ≥ --- | ≥ DVI(1)    |
| INGE ≥ Fraction of vegetable 1 from affected area          | ≥ not used  | ≥ 5.000E-01 | ≥ --- | ≥ FVEG(1)   |
| INGE ≥ Leafy vegetable consumption (kg/yr)                 | ≥ not used  | ≥ 1.400E+01 | ≥ --- | ≥ DVI(2)    |
| INGE ≥ Fraction of vegetable 2 from affected area          | ≥ not used  | ≥ 5.000E-01 | ≥ --- | ≥ FVEG(2)   |
| INGE ≥ Meat 1 consumption (kg/yr)                          | ≥ not used  | ≥ 6.300E+01 | ≥ --- | ≥ DMI(1)    |
| INGE ≥ Fraction of meat 1 from affected area               | ≥ not used  | ≥ 1.000E+00 | ≥ --- | ≥ FMEMI(1)  |
| INGE ≥ Milk consumption (L/yr)                             | ≥ not used  | ≥ 9.200E+01 | ≥ --- | ≥ DMI(2)    |
| INGE ≥ Fraction of milk from affected area                 | ≥ not used  | ≥ 1.000E+00 | ≥ --- | ≥ FMEMI(2)  |
| INGE ≥ Soil ingestion rate (g/yr)                          | ≥ 7.300E+01 | ≥ 3.650E+01 | ≥ --- | ≥ SOIL      |
| ≥                                                          | ≥           | ≥           | ≥     | ≥           |
| VEGE ≥ Wet weight crop yield for Non-Leafy (kg/m**2)       | ≥ not used  | ≥ 7.000E-01 | ≥ --- | ≥ YIELD(1)  |
| VEGE ≥ Growing Season for Non-Leafy (years)                | ≥ not used  | ≥ 1.700E-01 | ≥ --- | ≥           |
| GROWTIME(1)                                                |             |             |       |             |
| VEGE ≥ Translocation Factor for Non-Leafy                  | ≥ not used  | ≥ 1.000E-01 | ≥ --- | ≥ FOLI_F(1) |
| VEGE ≥ Weathering Removal Constant for Non-Leafy           | ≥ not used  | ≥ 2.000E+01 | ≥ --- | ≥           |
| RWEATHER(1)                                                |             |             |       |             |
| VEGE ≥ Foliar Interception Fraction for dust Non-Leafy     | ≥ not used  | ≥ 2.500E-01 | ≥ --- | ≥           |
| FINTCEPT(1,1)                                              |             |             |       |             |
| VEGE ≥ Foliar Intercept-n Fract-n for irrigation Non-Leafy | ≥ not used  | ≥ 2.500E-01 | ≥ --- | ≥           |
| FINTCEPT(1,2)                                              |             |             |       |             |
| VEGE ≥ Depth of roots for Non-Leafy (m)                    | ≥ not used  | ≥ 1.200E+00 | ≥ --- | ≥ DROOT(1)  |
| VEGE ≥ Wet weight crop yield for Leafy (kg/m**2)           | ≥ not used  | ≥ 1.500E+00 | ≥ --- | ≥ YIELD(2)  |

|                                                          |            |             |       |             |
|----------------------------------------------------------|------------|-------------|-------|-------------|
| VEGE ≥ Growing Season for Leafy (years)                  | ≥ not used | ≥ 2.500E-01 | ≥ --- | ≥           |
| GROWTIME(2)                                              |            |             |       |             |
| VEGE ≥ Translocation Factor for Leafy                    | ≥ not used | ≥ 1.000E+00 | ≥ --- | ≥ FOLI_F(2) |
| VEGE ≥ Weathering Removal Constant for Leafy             | ≥ not used | ≥ 2.000E+01 | ≥ --- | ≥           |
| RWEATHER(2)                                              |            |             |       |             |
| VEGE ≥ Foliar Interception Fraction for dust Leafy       | ≥ not used | ≥ 2.500E-01 | ≥ --- | ≥           |
| FINTCEPT(2,1)                                            |            |             |       |             |
| VEGE ≥ Foliar Intercept-n Fract-n for irrigation Leafy   | ≥ not used | ≥ 2.500E-01 | ≥ --- | ≥           |
| FINTCEPT(2,2)                                            |            |             |       |             |
| VEGE ≥ Depth of roots for Leafy (m)                      | ≥ not used | ≥ 9.000E-01 | ≥ --- | ≥ DROOT(2)  |
| VEGE ≥ Wet weight crop yield for Pasture (kg/m**2)       | ≥ not used | ≥ 1.100E+00 | ≥ --- | ≥ YIELD(3)  |
| VEGE ≥ Growing Season for Pasture (years)                | ≥ not used | ≥ 8.000E-02 | ≥ --- | ≥           |
| GROWTIME(3)                                              |            |             |       |             |
| VEGE ≥ Translocation Factor for Pasture                  | ≥ not used | ≥ 1.000E+00 | ≥ --- | ≥ FOLI_F(3) |
| VEGE ≥ Weathering Removal Constant for Pasture           | ≥ not used | ≥ 2.000E+01 | ≥ --- | ≥           |
| RWEATHER(3)                                              |            |             |       |             |
| VEGE ≥ Foliar Interception Fraction for dust Pasture     | ≥ not used | ≥ 2.500E-01 | ≥ --- | ≥           |
| FINTCEPT(3,1)                                            |            |             |       |             |
| VEGE ≥ Foliar Intercept-n Fract-n for irrigation Pasture | ≥ not used | ≥ 2.500E-01 | ≥ --- | ≥           |
| FINTCEPT(3,2)                                            |            |             |       |             |
| VEGE ≥ Depth of roots for Pasture (m)                    | ≥ not used | ≥ 9.000E-01 | ≥ --- | ≥ DROOT(3)  |
| VEGE ≥ Wet weight crop yield for Grain (kg/m**2)         | ≥ not used | ≥ 7.000E-01 | ≥ --- | ≥ YIELD(4)  |

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Site-Specific Parameter Summary (continued)

|           |           |         |           |            |        |
|-----------|-----------|---------|-----------|------------|--------|
| 0         | ≥         | ≥ User  | ≥         | ≥ RESRAD   | ≥      |
| Parameter |           |         |           |            |        |
| Menu ≥    | Parameter | ≥ Input | ≥ Default | ≥ computed | ≥ Name |

fffff~ffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff~



fffff

|                                                            |              |             |               |             |
|------------------------------------------------------------|--------------|-------------|---------------|-------------|
| VEGE ≥ Growing Season for Grain (years)                    | ≥ not used   | ≥ 1.700E-01 | ≥ ---         | ≥           |
| GROWTIME(4)                                                |              |             |               |             |
| VEGE ≥ Translocation Factor for Grain                      | ≥ not used   | ≥ 1.000E-01 | ≥ ---         | ≥ FOLI_F(4) |
| VEGE ≥ Weathering Removal Constant for Grain               | ≥ not used   | ≥ 2.000E+01 | ≥ ---         | ≥           |
| RWEATHER(4)                                                |              |             |               |             |
| VEGE ≥ Foliar Interception Fraction for dust Grain         | ≥ not used   | ≥ 2.500E-01 | ≥ ---         | ≥           |
| FINTCEPT(4,1)                                              |              |             |               |             |
| VEGE ≥ Foliar Intercept-n Fract-n for irrigation Grain     | ≥ not used   | ≥ 2.500E-01 | ≥ ---         | ≥           |
| FINTCEPT(4,2)                                              |              |             |               |             |
| VEGE ≥ Depth of roots for Grain (m)                        | ≥ not used   | ≥ 1.200E+00 | ≥ ---         | ≥ DROOT(4)  |
| ≥                                                          | ≥            | ≥           | ≥             | ≥           |
| LINT ≥ Feed 1 intake by livestock 1 (kg/day)               | ≥ not used   | ≥ 1.400E+01 | ≥ ---         | ≥ LFI(1,1)  |
| LINT ≥ Soil intake with feed 1 by livestock 1 (kg/day)     | ≥ not used   | ≥ 1.000E-01 | ≥ ---         | ≥ LSI(1,1)  |
| LINT ≥ Feed 1 intake by dairy cow (kg/day)                 | ≥ not used   | ≥ 4.400E+01 | ≥ ---         | ≥ LFI(2,1)  |
| LINT ≥ Soil intake with feed 1 by dairy cow (kg/day)       | ≥ not used   | ≥ 4.000E-01 | ≥ ---         | ≥ LSI(2,1)  |
| LINT ≥ Feed 2 intake by livestock 1 (kg/day)               | ≥ not used   | ≥ 5.400E+01 | ≥ ---         | ≥ LFI(1,2)  |
| LINT ≥ Soil intake with feed 2 by livestock 1 (kg/day)     | ≥ not used   | ≥ 4.000E-01 | ≥ ---         | ≥ LSI(1,2)  |
| LINT ≥ Feed 2 intake by dairy cow (kg/day)                 | ≥ not used   | ≥ 1.100E+01 | ≥ ---         | ≥ LFI(2,2)  |
| LINT ≥ Soil intake with feed 2 by dairy cow (kg/day)       | ≥ not used   | ≥ 1.000E-01 | ≥ ---         | ≥ LSI(2,2)  |
| ≥                                                          | ≥            | ≥           | ≥             | ≥           |
| INHE ≥ Inhalation rate (m**3/yr)                           | ≥ 7.780E+03  | ≥ 8.400E+03 | ≥ ---         | ≥ INHALR    |
| INHE ≥ Mass loading above primary contamination (g/m**3)   | ≥ 1.500E-07  | ≥ 1.000E-04 | ≥ ---         | ≥ MLFD      |
| INHE ≥ Mass loading for inhalation (g/m**3)                | ≥ 1.500E-07  | ≥ 1.000E-04 | ≥ ---         | ≥ MLINH     |
| INHE ≥ Indoor dust filtration factor, inhalation           | ≥ 1.000E+00  | ≥ 4.000E-01 | ≥ ---         | ≥ SHF3      |
| INHE ≥ Shielding factor, external gamma                    | ≥ 7.000E-01  | ≥ 7.000E-01 | ≥ ---         | ≥ SHF1      |
| INHE ≥ Shape factor flag, external gamma                   | ≥ -1.000E+00 | ≥ 1.000E+00 | ≥ noncircular | ≥ FS        |
| SEXT ≥ Onsite shape factor array (used if non-circular):   | ≥            | ≥           | ≥             | ≥           |
| SEXT ≥ Radii of shape factor array (used if non-circular): | ≥            | ≥           | ≥             | ≥           |
| SEXT ≥ Outer annular radius (m), ring 1:                   | ≥ 9.000E+00  | ≥ 6.000E+00 | ≥ ---         | ≥           |
| RAD_SHAPE( 1)                                              |              |             |               |             |
| SEXT ≥ Outer annular radius (m), ring 2:                   | ≥ 1.800E+01  | ≥ 1.200E+01 | ≥ ---         | ≥           |
| RAD_SHAPE( 2)                                              |              |             |               |             |

|                                                            |                                 |
|------------------------------------------------------------|---------------------------------|
| SEXT ≥ Outer annular radius (m), ring 3:<br>RAD_SHAPE( 3)  | ≥ 2.700E+01 ≥ 1.800E+01 ≥ --- ≥ |
| SEXT ≥ Outer annular radius (m), ring 4:<br>RAD_SHAPE( 4)  | ≥ 3.600E+01 ≥ 2.400E+01 ≥ --- ≥ |
| SEXT ≥ Outer annular radius (m), ring 5:<br>RAD_SHAPE( 5)  | ≥ 4.500E+01 ≥ 3.000E+01 ≥ --- ≥ |
| SEXT ≥ Outer annular radius (m), ring 6:<br>RAD_SHAPE( 6)  | ≥ 5.400E+01 ≥ 3.600E+01 ≥ --- ≥ |
| SEXT ≥ Outer annular radius (m), ring 7:<br>RAD_SHAPE( 7)  | ≥ 6.300E+01 ≥ 4.200E+01 ≥ --- ≥ |
| SEXT ≥ Outer annular radius (m), ring 8:<br>RAD_SHAPE( 8)  | ≥ 7.200E+01 ≥ 4.800E+01 ≥ --- ≥ |
| SEXT ≥ Outer annular radius (m), ring 9:<br>RAD_SHAPE( 9)  | ≥ 8.100E+01 ≥ 5.400E+01 ≥ --- ≥ |
| SEXT ≥ Outer annular radius (m), ring 10:<br>RAD_SHAPE(10) | ≥ 9.000E+01 ≥ 6.000E+01 ≥ --- ≥ |
| SEXT ≥ Outer annular radius (m), ring 11:<br>RAD_SHAPE(11) | ≥ 9.900E+01 ≥ 6.600E+01 ≥ --- ≥ |
| SEXT ≥ Outer annular radius (m), ring 12:<br>RAD_SHAPE(12) | ≥ 1.080E+02 ≥ 7.200E+01 ≥ --- ≥ |

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Site-Specific Parameter Summary (continued)

|                                                                                                            |             |                                   |
|------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------|
| 0 ≥                                                                                                        | ≥ User ≥    | ≥ RESRAD ≥                        |
| Parameter                                                                                                  |             |                                   |
| Menu ≥                                                                                                     | Parameter ≥ | Input ≥ Default ≥ computed ≥ Name |
| fffff~ffffffffffffffffffffffffffffffffffffffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff |             |                                   |
| fffff                                                                                                      |             |                                   |
| SEXT ≥ Fractions of annular areas within AREA:                                                             | ≥           | ≥ ≥ ≥                             |

|                                                            |             |             |       |             |
|------------------------------------------------------------|-------------|-------------|-------|-------------|
| SEXT ≥ Ring 1                                              | ≥ 1.000E+00 | ≥ 1.000E+00 | ≥ --- | ≥ FRACA( 1) |
| SEXT ≥ Ring 2                                              | ≥ 1.000E+00 | ≥ 1.000E+00 | ≥ --- | ≥ FRACA( 2) |
| SEXT ≥ Ring 3                                              | ≥ 1.000E+00 | ≥ 1.000E+00 | ≥ --- | ≥ FRACA( 3) |
| SEXT ≥ Ring 4                                              | ≥ 1.000E+00 | ≥ 1.000E+00 | ≥ --- | ≥ FRACA( 4) |
| SEXT ≥ Ring 5                                              | ≥ 1.000E+00 | ≥ 1.000E+00 | ≥ --- | ≥ FRACA( 5) |
| SEXT ≥ Ring 6                                              | ≥ 1.000E+00 | ≥ 1.000E+00 | ≥ --- | ≥ FRACA( 6) |
| SEXT ≥ Ring 7                                              | ≥ 9.600E-01 | ≥ 1.000E+00 | ≥ --- | ≥ FRACA( 7) |
| SEXT ≥ Ring 8                                              | ≥ 7.000E-01 | ≥ 1.000E+00 | ≥ --- | ≥ FRACA( 8) |
| SEXT ≥ Ring 9                                              | ≥ 5.700E-01 | ≥ 7.700E-01 | ≥ --- | ≥ FRACA( 9) |
| SEXT ≥ Ring 10                                             | ≥ 4.800E-01 | ≥ 3.700E-01 | ≥ --- | ≥ FRACA(10) |
| SEXT ≥ Ring 11                                             | ≥ 2.000E-01 | ≥ 1.700E-01 | ≥ --- | ≥ FRACA(11) |
| SEXT ≥ Ring 12                                             | ≥ 4.300E-02 | ≥ 3.100E-02 | ≥ --- | ≥ FRACA(12) |
| SEXT ≥ Nearsite shape factor array (used if non-circular): | ≥           | ≥           | ≥     | ≥           |
| SEXT ≥ Radii of shape factor array (used if non-circular): | ≥           | ≥           | ≥     | ≥           |
| SEXT ≥ Outer annular radius (m), ring 13:                  | ≥ 9.000E+00 | ≥ 1.325E+01 | ≥ --- | ≥           |
| RAD_SHAPE(13)                                              |             |             |       |             |
| SEXT ≥ Outer annular radius (m), ring 14:                  | ≥ 1.800E+01 | ≥ 2.650E+01 | ≥ --- | ≥           |
| RAD_SHAPE(14)                                              |             |             |       |             |
| SEXT ≥ Outer annular radius (m), ring 15:                  | ≥ 2.700E+01 | ≥ 3.975E+01 | ≥ --- | ≥           |
| RAD_SHAPE(15)                                              |             |             |       |             |
| SEXT ≥ Outer annular radius (m), ring 16:                  | ≥ 3.600E+01 | ≥ 5.300E+01 | ≥ --- | ≥           |
| RAD_SHAPE(16)                                              |             |             |       |             |
| SEXT ≥ Outer annular radius (m), ring 17:                  | ≥ 4.500E+01 | ≥ 6.625E+01 | ≥ --- | ≥           |
| RAD_SHAPE(17)                                              |             |             |       |             |
| SEXT ≥ Outer annular radius (m), ring 18:                  | ≥ 5.400E+01 | ≥ 7.950E+01 | ≥ --- | ≥           |
| RAD_SHAPE(18)                                              |             |             |       |             |
| SEXT ≥ Outer annular radius (m), ring 19:                  | ≥ 6.300E+01 | ≥ 9.275E+01 | ≥ --- | ≥           |
| RAD_SHAPE(19)                                              |             |             |       |             |
| SEXT ≥ Outer annular radius (m), ring 20:                  | ≥ 7.200E+01 | ≥ 1.060E+02 | ≥ --- | ≥           |
| RAD_SHAPE(20)                                              |             |             |       |             |
| SEXT ≥ Outer annular radius (m), ring 21:                  | ≥ 8.100E+01 | ≥ 1.193E+02 | ≥ --- | ≥           |
| RAD_SHAPE(21)                                              |             |             |       |             |
| SEXT ≥ Outer annular radius (m), ring 22:                  | ≥ 9.000E+01 | ≥ 1.325E+02 | ≥ --- | ≥           |

## RAD\_SHAPE(22)

|                                           |             |             |       |   |
|-------------------------------------------|-------------|-------------|-------|---|
| SEXT ≥ Outer annular radius (m), ring 23: | ≥ 9.900E+01 | ≥ 1.458E+02 | ≥ --- | ≥ |
|-------------------------------------------|-------------|-------------|-------|---|

## RAD\_SHAPE(23)

|                                           |             |             |       |   |
|-------------------------------------------|-------------|-------------|-------|---|
| SEXT ≥ Outer annular radius (m), ring 24: | ≥ 1.080E+02 | ≥ 1.590E+02 | ≥ --- | ≥ |
|-------------------------------------------|-------------|-------------|-------|---|

## RAD\_SHAPE(24)

|                                                |   |   |   |   |
|------------------------------------------------|---|---|---|---|
| SEXT ≥ Fractions of annular areas within AREA: | ≥ | ≥ | ≥ | ≥ |
|------------------------------------------------|---|---|---|---|

|                |             |             |       |             |
|----------------|-------------|-------------|-------|-------------|
| SEXT ≥ Ring 13 | ≥ 1.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ FRACA(13) |
|----------------|-------------|-------------|-------|-------------|

|                |             |             |       |             |
|----------------|-------------|-------------|-------|-------------|
| SEXT ≥ Ring 14 | ≥ 1.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ FRACA(14) |
|----------------|-------------|-------------|-------|-------------|

|                |             |             |       |             |
|----------------|-------------|-------------|-------|-------------|
| SEXT ≥ Ring 15 | ≥ 1.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ FRACA(15) |
|----------------|-------------|-------------|-------|-------------|

|                |             |             |       |             |
|----------------|-------------|-------------|-------|-------------|
| SEXT ≥ Ring 16 | ≥ 1.000E+00 | ≥ 2.400E-02 | ≥ --- | ≥ FRACA(16) |
|----------------|-------------|-------------|-------|-------------|

|                |             |             |       |             |
|----------------|-------------|-------------|-------|-------------|
| SEXT ≥ Ring 17 | ≥ 1.000E+00 | ≥ 1.900E-01 | ≥ --- | ≥ FRACA(17) |
|----------------|-------------|-------------|-------|-------------|

|                |             |             |       |             |
|----------------|-------------|-------------|-------|-------------|
| SEXT ≥ Ring 18 | ≥ 1.000E+00 | ≥ 2.400E-01 | ≥ --- | ≥ FRACA(18) |
|----------------|-------------|-------------|-------|-------------|

|                |             |             |       |             |
|----------------|-------------|-------------|-------|-------------|
| SEXT ≥ Ring 19 | ≥ 9.600E-01 | ≥ 2.000E-01 | ≥ --- | ≥ FRACA(19) |
|----------------|-------------|-------------|-------|-------------|

|                |             |             |       |             |
|----------------|-------------|-------------|-------|-------------|
| SEXT ≥ Ring 20 | ≥ 7.000E-01 | ≥ 1.700E-01 | ≥ --- | ≥ FRACA(20) |
|----------------|-------------|-------------|-------|-------------|

|                |             |             |       |             |
|----------------|-------------|-------------|-------|-------------|
| SEXT ≥ Ring 21 | ≥ 5.700E-01 | ≥ 1.500E-01 | ≥ --- | ≥ FRACA(21) |
|----------------|-------------|-------------|-------|-------------|

|                |             |             |       |             |
|----------------|-------------|-------------|-------|-------------|
| SEXT ≥ Ring 22 | ≥ 4.800E-01 | ≥ 1.300E-01 | ≥ --- | ≥ FRACA(22) |
|----------------|-------------|-------------|-------|-------------|

|                |             |             |       |             |
|----------------|-------------|-------------|-------|-------------|
| SEXT ≥ Ring 23 | ≥ 2.000E-01 | ≥ 1.200E-01 | ≥ --- | ≥ FRACA(23) |
|----------------|-------------|-------------|-------|-------------|

|                |             |             |       |             |
|----------------|-------------|-------------|-------|-------------|
| SEXT ≥ Ring 24 | ≥ 4.300E-02 | ≥ 5.200E-02 | ≥ --- | ≥ FRACA(24) |
|----------------|-------------|-------------|-------|-------------|

|   |   |   |   |   |
|---|---|---|---|---|
| ≥ | ≥ | ≥ | ≥ | ≥ |
|---|---|---|---|---|

|                                                            |             |             |       |        |
|------------------------------------------------------------|-------------|-------------|-------|--------|
| OCCU ≥ Fraction of time spent indoors on contaminated site | ≥ 0.000E+00 | ≥ 0.000E+00 | ≥ --- | ≥ FIND |
|------------------------------------------------------------|-------------|-------------|-------|--------|

|                                                             |             |             |       |        |
|-------------------------------------------------------------|-------------|-------------|-------|--------|
| OCCU ≥ Fraction of time spent outdoors on contaminated site | ≥ 2.053E-01 | ≥ 0.000E+00 | ≥ --- | ≥ FOTD |
|-------------------------------------------------------------|-------------|-------------|-------|--------|

|                                                           |             |             |       |             |
|-----------------------------------------------------------|-------------|-------------|-------|-------------|
| OCCU ≥ Fraction of time spent indoors in Offsite Dwelling | ≥ 0.000E+00 | ≥ 5.000E-01 | ≥ --- | ≥ FINDDWELL |
|-----------------------------------------------------------|-------------|-------------|-------|-------------|

|                                                            |             |             |       |             |
|------------------------------------------------------------|-------------|-------------|-------|-------------|
| OCCU ≥ Fraction of time spent outdoors in Offsite Dwelling | ≥ 0.000E+00 | ≥ 1.000E-01 | ≥ --- | ≥ FOTDDWELL |
|------------------------------------------------------------|-------------|-------------|-------|-------------|

|                                                        |             |             |       |   |
|--------------------------------------------------------|-------------|-------------|-------|---|
| OCCU ≥ Fraction of time spent outdoors in agri. area 1 | ≥ 0.000E+00 | ≥ 1.000E-01 | ≥ --- | ≥ |
|--------------------------------------------------------|-------------|-------------|-------|---|

## OCCUPANCY(1)

|                                                        |             |             |       |   |
|--------------------------------------------------------|-------------|-------------|-------|---|
| OCCU ≥ Fraction of time spent outdoors in agri. area 2 | ≥ 0.000E+00 | ≥ 1.000E-01 | ≥ --- | ≥ |
|--------------------------------------------------------|-------------|-------------|-------|---|

## OCCUPANCY(2)

|                              |                    |                  |         |
|------------------------------|--------------------|------------------|---------|
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|------------------------------|--------------------|------------------|---------|

Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

Site-Specific Parameter Summary (continued)

| 0            | ≥ |                                               | ≥          | User       | ≥         |            | ≥          | RESRAD     | ≥   |            |
|--------------|---|-----------------------------------------------|------------|------------|-----------|------------|------------|------------|-----|------------|
| Parameter    |   |                                               |            |            |           |            |            |            |     |            |
| Menu         | ≥ | Parameter                                     |            | Input      | ≥         | Default    | ≥          | computed   | ≥   | Name       |
| fffff        | ≈ | ffffffffff                                    | ffffffffff | ffffffffff | ≈         | ffffffffff | ≈          | ffffffffff | ≈   | ffffffffff |
| fffff        |   |                                               |            |            |           |            |            |            |     |            |
| OCCU         | ≥ | Fraction of time spent outdoors in agri. area | 3          | ≥          | 0.000E+00 | ≥          | 1.000E-01  | ≥          | --- | ≥          |
| OCCUPANCY(3) |   |                                               |            |            |           |            |            |            |     |            |
| OCCU         | ≥ | Fraction of time spent outdoors in agri. area | 4          | ≥          | 0.000E+00 | ≥          | 1.000E-01  | ≥          | --- | ≥          |
| OCCUPANCY(4) |   |                                               |            |            |           |            |            |            |     |            |
|              | ≥ |                                               |            | ≥          |           | ≥          |            | ≥          |     | ≥          |
| RADN         | ≥ | Diffusion coefficient for radon gas (m/sec):  |            | ≥          |           | ≥          |            | ≥          |     | ≥          |
| RADN         | ≥ | in cover material                             |            | ≥          | not used  | ≥          | 2.000E-06  | ≥          | --- | ≥ DIFCV    |
| RADN         | ≥ | in foundation material                        |            | ≥          | not used  | ≥          | 3.000E-07  | ≥          | --- | ≥ DIFFL    |
| RADN         | ≥ | in contaminated zone soil                     |            | ≥          | not used  | ≥          | 2.000E-06  | ≥          | --- | ≥ DIFCZ    |
| RADN         | ≥ | Thickness of building foundation (m)          |            | ≥          | not used  | ≥          | 1.500E-01  | ≥          | --- | ≥ FLOOR1   |
| RADN         | ≥ | Bulk density of building foundation (g/cm**3) |            | ≥          | not used  | ≥          | 2.400E+00  | ≥          | --- | ≥ DENSFL   |
| RADN         | ≥ | Total porosity of the building foundation     |            | ≥          | not used  | ≥          | 1.000E-01  | ≥          | --- | ≥ TPFL     |
| RADN         | ≥ | Volumetric water content of the foundation    |            | ≥          | not used  | ≥          | 3.000E-02  | ≥          | --- | ≥ PH2OFL   |
| RADN         | ≥ | Building depth below ground surface (m)       |            | ≥          | not used  | ≥          | -1.000E+00 | ≥          | --- | ≥ DMFL     |
| RADN         | ≥ | Radon vertical dimension of mixing (m)        |            | ≥          | 2.000E+00 | ≥          | 2.000E+00  | ≥          | --- | ≥ HMIX     |
| RADN         | ≥ | Height of the building (room) (m)             |            | ≥          | not used  | ≥          | 2.500E+00  | ≥          | --- | ≥ HRM      |
| RADN         | ≥ | Average building air exchange rate (1/hr)     |            | ≥          | not used  | ≥          | 5.000E-01  | ≥          | --- | ≥ REXG     |
| RADN         | ≥ | Building interior area factor                 |            | ≥          | not used  | ≥          | 0.000E+00  | ≥          | --- | ≥ FAI      |
| RADN         | ≥ | Emanating power of Rn-222 gas                 |            | ≥          | not used  | ≥          | 2.500E-01  | ≥          | --- | ≥ EMANA(1) |
| RADN         | ≥ | Emanating power of Rn-220 gas                 |            | ≥          | not used  | ≥          | 1.500E-01  | ≥          | --- | ≥ EMANA(2) |
|              | ≥ |                                               |            | ≥          |           | ≥          |            | ≥          |     | ≥          |
| C14          | ≥ | C-14 evasion layer thickness in soil (m)      |            | ≥          | not used  | ≥          | 3.000E-01  | ≥          | --- | ≥ DMC      |
| C14          | ≥ | C-14 evasion flux rate from soil (1/sec)      |            | ≥          | not used  | ≥          | 7.000E-07  | ≥          | --- | ≥ C14EVS   |
| C14          | ≥ | C-12 evasion flux rate from soil (1/sec)      |            | ≥          | not used  | ≥          | 1.000E-10  | ≥          | --- | ≥ C12EVS   |
| C14          | ≥ | Fraction of vegetation carbon from air        |            | ≥          | not used  | ≥          | 9.800E-01  | ≥          | --- | ≥ CAIR     |
| C14          | ≥ | Fraction of vegetation carbon from soil       |            | ≥          | not used  | ≥          | 2.000E-02  | ≥          | --- | ≥ CSOIL    |
|              | ≥ |                                               |            | ≥          |           | ≥          |            | ≥          |     | ≥          |

[illegible]

Title : Industrial No Cap Base  
File : INDUSTRIAL NO CAP BASE.ROF

Summary of Pathway Selections

| Pathway                     | ≥ | User Selection |
|-----------------------------|---|----------------|
| 1 -- external gamma         | ≥ | active         |
| 2 -- inhalation (w/o radon) | ≥ | active         |
| 3 -- plant ingestion        | ≥ | suppressed     |
| 4 -- meat ingestion         | ≥ | suppressed     |
| 5 -- milk ingestion         | ≥ | suppressed     |
| 6 -- aquatic foods          | ≥ | suppressed     |
| 7 -- drinking water         | ≥ | active         |
| 8 -- soil ingestion         | ≥ | active         |
| 9 -- radon                  | ≥ | suppressed     |

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Parent Dose Report  
Title : Industrial No Cap Base  
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| Contaminated Zone Dimensions | Initial Soil Concentrations, pCi/g |           |
|------------------------------|------------------------------------|-----------|
| Area: 21000.00 square meters | Ac-227                             | 2.340E+00 |
| Thickness: 7.26 meters       | Al-26                              | 7.640E+02 |
| Cover Depth: 1.00 meters     | Am-241                             | 1.410E+03 |
|                              | Cf-249                             | 3.240E-03 |
|                              | Cf-251                             | 1.340E-02 |
|                              | Cf-252                             | 1.510E-07 |

|         |           |
|---------|-----------|
| Cl-36   | 2.790E-01 |
| Co-60   | 4.860E+00 |
| Cs-134  | 2.620E-06 |
| Cs-137  | 3.050E+03 |
| Eu-154  | 9.920E-03 |
| Eu-155  | 8.720E-03 |
| H-3     | 3.780E+04 |
| Ho-166m | 5.020E-01 |
| Na-22   | 1.120E-03 |
| Np-237  | 1.620E-03 |
| Pb-210  | 2.850E+00 |
| Pm-147  | 1.370E-08 |
| Pu-238  | 1.470E+04 |
| Pu-239  | 9.250E+03 |
| Pu-240  | 2.380E+03 |
| Pu-241  | 3.820E+03 |
| Pu-242  | 2.520E-01 |
| Ra-226  | 3.850E+00 |
| Ra-228  | 4.190E+00 |
| Ru-106  | 7.770E-09 |
| Sb-125  | 5.400E-04 |
| Sm-151  | 2.110E-02 |
| Sn-121m | 5.020E-01 |
| Sn-126  | 1.220E-01 |
| Sr-90   | 4.300E+02 |
| Th-228  | 8.930E-03 |
| Th-230  | 8.370E+01 |
| Th-232  | 9.880E-03 |
| U-233   | 2.790E+00 |
| U-234   | 4.260E+01 |
| U-235   | 2.180E+02 |
| U-236   | 4.070E-01 |
| U-238   | 5.350E+01 |



0

Total Dose TDOSE(t), mrem/yr  
Basic Radiation Dose Limit = 1.500E+01 mrem/yr  
Total Mixture Sum M(t) = Fraction of Basic Dose Limit Received at Time (t)  
ffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff  
t (years): 0.000E+00 1.000E+00 6.000E+00 1.200E+01 3.000E+01 1.000E+02 3.000E+02 1.000E+03  
TDOSE(t): 7.266E-02 7.277E-02 7.251E-02 7.192E-02 7.095E-02 7.035E-02 7.220E-02 8.013E-02  
M(t): 4.844E-03 4.851E-03 4.834E-03 4.795E-03 4.730E-03 4.690E-03 4.813E-03 5.342E-03  
0Maximum TDOSE(t): 8.048E-02 mrem/yr at t = 1030 years  
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Parent Dose Report  
Title : Industrial No Cap Base  
File : INDUSTRIAL NO CAP BASE.ROF

| Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways |                                                             |     |               |     |               |     |               |     |               |     |               |     |               |     |  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------|-----|---------------|-----|---------------|-----|---------------|-----|---------------|-----|---------------|-----|---------------|-----|--|
| (p)                                                                                 | in mrem/yr and as a Percentage of Total Dose at t = 0 years |     |               |     |               |     |               |     |               |     |               |     |               |     |  |
| 0                                                                                   | From releases to ground water and to surface water          |     |               |     |               |     |               |     |               |     |               |     |               |     |  |
| 0                                                                                   | Ground                                                      |     | Fish          |     | Radon         |     | Plant         |     | Meat          |     | Milk          |     | Soil          |     |  |
| Water                                                                               |                                                             |     |               |     |               |     |               |     |               |     |               |     |               |     |  |
| Radio-                                                                              | fffffffffffff                                               |     | fffffffffffff |     | fffffffffffff |     | fffffffffffff |     | fffffffffffff |     | fffffffffffff |     | fffffffffffff |     |  |
| fffffffffffff                                                                       |                                                             |     |               |     |               |     |               |     |               |     |               |     |               |     |  |
| Nuclide                                                                             | Dose                                                        | %   | Dose          | %   | Dose          | %   | Dose          | %   | Dose          | %   | Dose          | %   | Dose          | %   |  |
| Dose                                                                                | %                                                           |     |               |     |               |     |               |     |               |     |               |     |               |     |  |
| ffffffffff                                                                          | ffffffffff                                                  | fff | ffffffffff    | fff | ffffffffff    | fff | ffffffffff    | fff | ffffffffff    | fff | ffffffffff    | fff | ffffffffff    | fff |  |
| ffffffffff                                                                          | fff                                                         |     |               |     |               |     |               |     |               |     |               |     |               |     |  |
| Ac-227                                                                              | 0.00E+00                                                    | 0   | 0.00E+00      | 0   | 0.00E+00      | 0   | 0.00E+00      | 0   | 0.00E+00      | 0   | 0.00E+00      | 0   | 0.00E+00      | 0   |  |
| 0.00E+00                                                                            | 0                                                           |     |               |     |               |     |               |     |               |     |               |     |               |     |  |
| Al-26                                                                               | 0.00E+00                                                    | 0   | 0.00E+00      | 0   | 0.00E+00      | 0   | 0.00E+00      | 0   | 0.00E+00      | 0   | 0.00E+00      | 0   | 0.00E+00      | 0   |  |
| 0.00E+00                                                                            | 0                                                           |     |               |     |               |     |               |     |               |     |               |     |               |     |  |
| Am-241                                                                              | 0.00E+00                                                    | 0   | 0.00E+00      | 0   | 0.00E+00      | 0   | 0.00E+00      | 0   | 0.00E+00      | 0   | 0.00E+00      | 0   | 0.00E+00      | 0   |  |
| 0.00E+00                                                                            | 0                                                           |     |               |     |               |     |               |     |               |     |               |     |               |     |  |
| Cf-249                                                                              | 0.00E+00                                                    | 0   | 0.00E+00      | 0   | 0.00E+00      | 0   | 0.00E+00      | 0   | 0.00E+00      | 0   | 0.00E+00      | 0   | 0.00E+00      | 0   |  |

|          |          |   |          |   |          |   |          |   |          |   |          |   |          |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cf-251   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cf-252   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cl-36    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Co-60    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cs-134   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cs-137   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Eu-154   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Eu-155   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| H-3      | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ho-166m  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Na-22    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Np-237   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pb-210   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pm-147   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-238   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-239   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |

|          |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| Pu-240   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-241   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-242   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ra-226   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ra-228   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ru-106   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sb-125   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sm-151   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sn-121m  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sn-126   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sr-90    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Th-228   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Th-230   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Th-232   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| U-233    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| U-234    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| U-235    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |

```

0.00E+00  0
U-236  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0
0.00E+00  0
U-238  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0
0.00E+00  0
00000000 00000000 000 00000000 000 00000000 000 00000000 000 00000000 000 00000000 000 00000000 000
00000000 000
Total  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0
0.00E+00  0

```

1RESRAD-OFFSITE, Version 2.6 T Limit = 30 days 09/19/2012 14:54 Page 69

Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways

(p)

in mrem/yr and as a Percentage of Total Dose at t = 0 years

0 Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)

0 Ground Inhalation Radon Plant Meat Milk Soil

All Pathways\*

```

Radio- ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff
fffffff

```

```

Nuclide Dose % Dose % Dose % Dose % Dose % Dose % Dose %
Dose %

```

```

ffffff fffffff fff fffffff fff fffffff fff fffffff fff fffffff fff fffffff fff fffffff fff
ffffff fff

```

```

Ac-227 2.59E-07 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
2.59E-07 0

```

```

Al-26 6.87E-02 95 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
6.87E-02 95

```

```

Am-241 2.96E-12 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
2.96E-12 0

```

```

Cf-249 4.06E-10 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0

```

|          |          |   |          |   |          |   |          |   |          |   |          |   |          |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|
| 4.06E-10 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cf-251   | 3.55E-12 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 3.55E-12 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cf-252   | 1.44E-23 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 1.44E-23 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cl-36    | 9.98E-13 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 9.98E-13 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Co-60    | 2.54E-04 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 2.54E-04 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cs-134   | 8.91E-12 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 8.91E-12 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cs-137   | 3.28E-03 | 5 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 3.28E-03 | 5        |   |          |   |          |   |          |   |          |   |          |   |          |
| Eu-154   | 1.23E-07 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 1.23E-07 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Eu-155   | 6.40E-16 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 6.40E-16 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| H-3      | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ho-166m  | 2.16E-06 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 2.16E-06 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Na-22    | 1.31E-08 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 1.31E-08 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Np-237   | 2.10E-11 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 2.10E-11 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pb-210   | 6.28E-11 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 6.28E-11 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pm-147   | 1.88E-26 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 1.88E-26 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-238   | 1.64E-13 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 1.64E-13 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-239   | 2.78E-09 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 2.78E-09 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |

|          |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| Pu-240   | 1.19E-15 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.19E-15 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-241   | 7.94E-12 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 7.94E-12 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-242   | 1.91E-18 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.91E-18 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ra-226   | 1.95E-04 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.95E-04 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ra-228   | 1.84E-04 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.84E-04 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ru-106   | 2.03E-15 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 2.03E-15 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sb-125   | 2.44E-10 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 2.44E-10 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sm-151   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sn-121m  | 5.32E-17 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 5.32E-17 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sn-126   | 4.37E-07 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 4.37E-07 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sr-90    | 1.27E-07 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.27E-07 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Th-228   | 1.71E-06 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.71E-06 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Th-230   | 9.19E-07 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 9.19E-07 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Th-232   | 2.19E-08 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 2.19E-08 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| U-233    | 1.30E-10 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.30E-10 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| U-234    | 1.59E-12 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.59E-12 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| U-235    | 1.23E-07 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |

```

1.23E-07  0
U-236     2.35E-17  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0
2.35E-17  0
U-238     4.35E-06  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0
4.35E-06  0
00000000 00000000 000 00000000 000 00000000 000 00000000 000 00000000 000 00000000 000 00000000 000
00000000 000
Total      7.27E-02 100 0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0
7.27E-02 100

```

0\*Sum of dose from all releases and from primary contamination.

1RESRAD-OFFSITE, Version 2.6

T' Limit = 30 days

09/19/2012 14:54 Page 70

Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

# Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways

(p)

in mrem/yr and as a Percentage of Total Dose at t = 1 years

From releases to ground water and to surface water

```

0
0          Ground      Fish      Radon      Plant      Meat      Milk      Soil
Water
Radio- ffffffffff ffffffffff ffffffffff ffffffffff ffffffffff ffffffffff ffffffffff
fffffffff
Nuclide Dose %      Dose %      Dose %      Dose %      Dose %      Dose %      Dose %
Dose %
ffffff fffffff fff fffffff fff fffffff fff fffffff fff fffffff fff fffffff fff fffffff fff
ffffffff fff
Ac-227  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0
0.00E+00  0
Al-26   0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0
0.00E+00  0
Am-241  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0
0.00E+00  0

```

|                     |               |   |          |   |          |   |          |   |          |   |          |   |          |   |
|---------------------|---------------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| Cf-249<br>0.00E+00  | 0.00E+00<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Cf-251<br>0.00E+00  | 0.00E+00<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Cf-252<br>0.00E+00  | 0.00E+00<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Cl-36<br>0.00E+00   | 0.00E+00<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Co-60<br>0.00E+00   | 0.00E+00<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Cs-134<br>0.00E+00  | 0.00E+00<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Cs-137<br>0.00E+00  | 0.00E+00<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Eu-154<br>0.00E+00  | 0.00E+00<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Eu-155<br>0.00E+00  | 0.00E+00<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| H-3<br>0.00E+00     | 0.00E+00<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Ho-166m<br>0.00E+00 | 0.00E+00<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Na-22<br>0.00E+00   | 0.00E+00<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Np-237<br>0.00E+00  | 0.00E+00<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Pb-210<br>0.00E+00  | 0.00E+00<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Pm-147<br>0.00E+00  | 0.00E+00<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Pu-238<br>0.00E+00  | 0.00E+00<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Pu-239              | 0.00E+00      | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |



|          |          |   |          |   |          |   |          |   |          |   |          |   |          |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-240   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-241   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-242   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ra-226   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ra-228   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ru-106   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sb-125   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sm-151   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sn-121m  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sn-126   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sr-90    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Th-228   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Th-230   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Th-232   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| U-233    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| U-234    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |

1RESRAD-OFFSITE, Version 2.6                      T Limit = 30 days                      09/19/2012 14:54    Page 71  
Parent Dose Report  
Title : Industrial No Cap Base  
File : INDUSTRIAL NO CAP BASE.ROF

(p)

|   |                                                                                                |            |       |       |      |      |      |
|---|------------------------------------------------------------------------------------------------|------------|-------|-------|------|------|------|
| 0 | Directly from primary contamination and from release to atmosphere (Inhalation excludes radon) |            |       |       |      |      |      |
| 0 | Ground                                                                                         | Inhalation | Radon | Plant | Meat | Milk | Soil |

Radio- ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff  
ffffffff

[illegible]

ffffffff ffffffff fff ffffffff fff ffffffff fff ffffffff fff ffffffff fff ffffffff fff  
 ffffffff fff

[illegible][illegible][illegible]

|          |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| Cf-249   | 4.06E-10 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 4.06E-10 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cf-251   | 3.55E-12 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 3.55E-12 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cf-252   | 1.11E-23 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.11E-23 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cl-36    | 9.98E-13 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 9.98E-13 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Co-60    | 2.22E-04 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 2.22E-04 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cs-134   | 6.37E-12 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 6.37E-12 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cs-137   | 3.21E-03 | 4 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 3.21E-03 | 4        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Eu-154   | 1.14E-07 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.14E-07 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Eu-155   | 5.57E-16 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 5.57E-16 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| H-3      | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ho-166m  | 2.16E-06 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 2.16E-06 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Na-22    | 1.01E-08 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.01E-08 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Np-237   | 2.10E-11 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 2.10E-11 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pb-210   | 9.95E-11 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 9.95E-11 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pm-147   | 1.44E-26 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.44E-26 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-238   | 1.68E-13 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.68E-13 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-239   | 2.78E-09 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |

|          |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| 2.78E-09 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-240   | 1.19E-15 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.19E-15 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-241   | 7.59E-12 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 7.59E-12 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-242   | 5.09E-18 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 5.09E-18 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ra-226   | 1.95E-04 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.95E-04 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ra-228   | 3.92E-04 | 1 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 3.92E-04 | 1        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ru-106   | 1.02E-15 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.02E-15 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sb-125   | 1.90E-10 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.90E-10 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sm-151   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sn-121m  | 5.26E-17 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 5.26E-17 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sn-126   | 4.38E-07 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 4.38E-07 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sr-90    | 1.24E-07 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.24E-07 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Th-228   | 1.19E-06 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.19E-06 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Th-230   | 2.76E-06 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 2.76E-06 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Th-232   | 1.07E-07 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.07E-07 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| U-233    | 3.86E-10 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 3.86E-10 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| U-234    | 1.00E-11 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.00E-11 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |



|          |          |   |          |   |          |   |          |   |          |   |          |   |          |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cf-249   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cf-251   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cf-252   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cl-36    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Co-60    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cs-134   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cs-137   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Eu-154   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Eu-155   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| H-3      | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ho-166m  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Na-22    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Np-237   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pb-210   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pm-147   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-238   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |

|          |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| Pu-239   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-240   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-241   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-242   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ra-226   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ra-228   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ru-106   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sb-125   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sm-151   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sn-121m  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sn-126   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sr-90    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Th-228   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Th-230   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Th-232   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| U-233    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| U-234    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |

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0.00E+00  0
U-235  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0
0.00E+00  0
U-236  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0
0.00E+00  0
U-238  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0
0.00E+00  0
00000000 00000000 000 00000000 000 00000000 000 00000000 000 00000000 000 00000000 000 00000000 000
00000000 000
Total  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0
0.00E+00  0

```

1RESRAD-OFFSITE, Version 2.6      T Limit = 30 days      09/19/2012 14:54 Page 73

Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways

(p)

in mrem/yr and as a Percentage of Total Dose at t = 6 years

0      Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)

0      Ground      Inhalation      Radon      Plant      Meat      Milk      Soil

All Pathways\*

```

Radio-  ffffffffff ffffffffff ffffffffff ffffffffff ffffffffff ffffffffff ffffffffff
ffffffff

```

| Nuclide | Dose | % | Dose | % | Dose | % | Dose | % | Dose | % | Dose | % | Dose | % |
|---------|------|---|------|---|------|---|------|---|------|---|------|---|------|---|
|---------|------|---|------|---|------|---|------|---|------|---|------|---|------|---|

```

Dose %
ffffff fffffff fff fffffff fff fffffff fff fffffff fff fffffff fff fffffff fff fffffff fff
ffffff fff

```

|          |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| Ac-227   | 2.14E-07 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 2.14E-07 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |

|          |          |    |          |   |          |   |          |   |          |   |          |   |          |   |
|----------|----------|----|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| Al-26    | 6.88E-02 | 95 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 6.88E-02 | 95       |    |          |   |          |   |          |   |          |   |          |   |          |   |

|        |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
|--------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| Am-241 | 3.83E-11 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
|--------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|



|          |          |   |          |   |          |   |          |   |          |   |          |   |          |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|
| 3.83E-11 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cf-249   | 4.02E-10 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 4.02E-10 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cf-251   | 3.54E-12 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 3.54E-12 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cf-252   | 3.03E-24 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 3.03E-24 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cl-36    | 9.98E-13 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 9.98E-13 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Co-60    | 1.15E-04 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 1.15E-04 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cs-134   | 1.19E-12 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 1.19E-12 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cs-137   | 2.86E-03 | 4 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 2.86E-03 | 4        |   |          |   |          |   |          |   |          |   |          |   |          |
| Eu-154   | 7.67E-08 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 7.67E-08 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Eu-155   | 2.77E-16 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 2.77E-16 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| H-3      | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ho-166m  | 2.15E-06 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 2.15E-06 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Na-22    | 2.66E-09 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 2.66E-09 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Np-237   | 2.10E-11 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 2.10E-11 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pb-210   | 9.19E-11 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 9.19E-11 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pm-147   | 3.86E-27 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 3.86E-27 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-238   | 5.32E-13 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 5.32E-13 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |

|          |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| Pu-239   | 2.78E-09 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 2.78E-09 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-240   | 1.19E-15 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.19E-15 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-241   | 6.45E-12 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 6.45E-12 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-242   | 2.10E-17 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 2.10E-17 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ra-226   | 1.95E-04 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.95E-04 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ra-228   | 5.36E-04 | 1 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 5.36E-04 | 1        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ru-106   | 3.29E-17 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 3.29E-17 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sb-125   | 5.44E-11 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 5.44E-11 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sm-151   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sn-121m  | 4.95E-17 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 4.95E-17 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sn-126   | 4.38E-07 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 4.38E-07 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sr-90    | 1.10E-07 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.10E-07 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Th-228   | 1.95E-07 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.95E-07 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Th-230   | 1.19E-05 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.19E-05 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Th-232   | 8.70E-07 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 8.70E-07 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| U-233    | 1.66E-09 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.66E-09 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| U-234    | 1.78E-10 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |

|          |          |     |          |     |          |     |          |     |          |     |          |     |          |     |
|----------|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|
| 1.78E-10 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-235    | 1.23E-07 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 1.23E-07 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-236    | 4.97E-15 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 4.97E-15 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-238    | 4.35E-06 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 4.35E-06 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| 00000000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 |
| 00000000 | 000      |     |          |     |          |     |          |     |          |     |          |     |          |     |
| Total    | 7.25E-02 | 100 | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 7.25E-02 | 100      |     |          |     |          |     |          |     |          |     |          |     |          |     |

0\*Sum of dose from all releases and from primary contamination.  
1RESRAD-OFFSITE, Version 2.6                      T' Limit = 30 days                      09/19/2012 14:54    Page 74  
Parent Dose Report  
Title : Industrial No Cap Base  
File : INDUSTRIAL NO CAP BASE.ROF

| Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways |              |     |              |     |              |     |              |     |              |     |              |     |              |     |
|-------------------------------------------------------------------------------------|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|
| (p)                                                                                 |              |     |              |     |              |     |              |     |              |     |              |     |              |     |
| in mrem/yr and as a Percentage of Total Dose at t = 12 years                        |              |     |              |     |              |     |              |     |              |     |              |     |              |     |
| From releases to ground water and to surface water                                  |              |     |              |     |              |     |              |     |              |     |              |     |              |     |
|                                                                                     | Ground       |     | Fish         |     | Radon        |     | Plant        |     | Meat         |     | Milk         |     | Soil         |     |
| Water                                                                               |              |     |              |     |              |     |              |     |              |     |              |     |              |     |
| Radio-                                                                              | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     |
| ffffffffffff                                                                        |              |     |              |     |              |     |              |     |              |     |              |     |              |     |
| Nuclide                                                                             | Dose         | %   | Dose         | %   | Dose         | %   | Dose         | %   | Dose         | %   | Dose         | %   | Dose         | %   |
| Dose                                                                                | %            |     |              |     |              |     |              |     |              |     |              |     |              |     |
| ffffff                                                                              | ffffff       | fff | ffffff       | fff | ffffff       | fff | ffffff       | fff | ffffff       | fff | ffffff       | fff | ffffff       | fff |
| ffffff                                                                              | fff          |     |              |     |              |     |              |     |              |     |              |     |              |     |
| Ac-227                                                                              | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   |
| 0.00E+00                                                                            | 0            |     |              |     |              |     |              |     |              |     |              |     |              |     |
| Al-26                                                                               | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   |
| 0.00E+00                                                                            | 0            |     |              |     |              |     |              |     |              |     |              |     |              |     |

|          |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| Am-241   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cf-249   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cf-251   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cf-252   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cl-36    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Co-60    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cs-134   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cs-137   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Eu-154   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Eu-155   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| H-3      | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ho-166m  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Na-22    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Np-237   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pb-210   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pm-147   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-238   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |

|          |          |   |          |   |          |   |          |   |          |   |          |   |          |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-239   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-240   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-241   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-242   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ra-226   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ra-228   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ru-106   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sb-125   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sm-151   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sn-121m  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sn-126   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sr-90    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Th-228   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Th-230   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Th-232   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| U-233    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |

|          |          |     |          |     |          |     |          |     |          |     |          |     |          |     |
|----------|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|
| U-234    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-235    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-236    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-238    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| 00000000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 |
| 00000000 | 000      |     |          |     |          |     |          |     |          |     |          |     |          |     |
| Total    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |

1RESRAD-OFFSITE, Version 2.6                      T' Limit = 30 days                      09/19/2012 14:54 Page 75  
Parent Dose Report  
Title : Industrial No Cap Base  
File : INDUSTRIAL NO CAP BASE.ROF

| Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)        |              |    |              |   |              |   |              |   |              |   |              |   |              |   |
|------------------------------------------------------------------------------------------------|--------------|----|--------------|---|--------------|---|--------------|---|--------------|---|--------------|---|--------------|---|
| in mrem/yr and as a Percentage of Total Dose at t = 12 years                                   |              |    |              |   |              |   |              |   |              |   |              |   |              |   |
| Directly from primary contamination and from release to atmosphere (Inhalation excludes radon) |              |    |              |   |              |   |              |   |              |   |              |   |              |   |
|                                                                                                | Ground       |    | Inhalation   |   | Radon        |   | Plant        |   | Meat         |   | Milk         |   | Soil         |   |
| All Pathways*                                                                                  |              |    |              |   |              |   |              |   |              |   |              |   |              |   |
| Radio-                                                                                         | ffffffffffff |    | ffffffffffff |   | ffffffffffff |   | ffffffffffff |   | ffffffffffff |   | ffffffffffff |   | ffffffffffff |   |
| Nuclide                                                                                        | Dose         | %  | Dose         | % | Dose         | % | Dose         | % | Dose         | % | Dose         | % | Dose         | % |
| Dose                                                                                           | %            |    |              |   |              |   |              |   |              |   |              |   |              |   |
| Ac-227                                                                                         | 1.77E-07     | 0  | 0.00E+00     | 0 | 0.00E+00     | 0 | 0.00E+00     | 0 | 0.00E+00     | 0 | 0.00E+00     | 0 | 0.00E+00     | 0 |
| Al-26                                                                                          | 6.88E-02     | 96 | 0.00E+00     | 0 | 0.00E+00     | 0 | 0.00E+00     | 0 | 0.00E+00     | 0 | 0.00E+00     | 0 | 0.00E+00     | 0 |

|          |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| Am-241   | 7.34E-11 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 7.34E-11 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cf-249   | 3.98E-10 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 3.98E-10 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cf-251   | 3.53E-12 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 3.53E-12 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cf-252   | 7.20E-25 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 7.20E-25 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cl-36    | 9.98E-13 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 9.98E-13 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Co-60    | 5.24E-05 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 5.24E-05 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cs-134   | 1.58E-13 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.58E-13 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cs-137   | 2.49E-03 | 3 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 2.49E-03 | 3        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Eu-154   | 4.79E-08 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 4.79E-08 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Eu-155   | 1.20E-16 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.20E-16 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| H-3      | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ho-166m  | 2.15E-06 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 2.15E-06 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Na-22    | 5.39E-10 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 5.39E-10 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Np-237   | 2.10E-11 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 2.10E-11 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pb-210   | 7.63E-11 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 7.63E-11 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pm-147   | 7.93E-28 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 7.93E-28 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-238   | 2.77E-12 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |

|          |          |   |          |   |          |   |          |   |          |   |          |   |          |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|
| 2.77E-12 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-239   | 2.78E-09 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 2.78E-09 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-240   | 1.21E-15 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 1.21E-15 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-241   | 6.12E-12 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 6.12E-12 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-242   | 4.01E-17 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 4.01E-17 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ra-226   | 1.94E-04 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 1.94E-04 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ra-228   | 3.11E-04 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 3.11E-04 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ru-106   | 5.34E-19 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 5.34E-19 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sb-125   | 1.21E-11 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 1.21E-11 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sm-151   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sn-121m  | 4.59E-17 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 4.59E-17 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sn-126   | 4.38E-07 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 4.38E-07 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sr-90    | 9.54E-08 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 9.54E-08 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Th-228   | 2.22E-08 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 2.22E-08 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Th-230   | 2.29E-05 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 2.29E-05 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Th-232   | 1.59E-06 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 1.59E-06 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| U-233    | 3.20E-09 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 3.20E-09 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |



|          |          |     |          |     |          |     |          |     |          |     |          |     |          |     |
|----------|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|
| U-234    | 6.58E-10 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 6.58E-10 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-235    | 1.24E-07 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 1.24E-07 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-236    | 2.04E-14 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 2.04E-14 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-238    | 4.36E-06 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 4.36E-06 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| 00000000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 |
| 00000000 | 000      |     |          |     |          |     |          |     |          |     |          |     |          |     |
| Total    | 7.19E-02 | 100 | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 7.19E-02 | 100      |     |          |     |          |     |          |     |          |     |          |     |          |     |

0\*Sum of dose from all releases and from primary contamination.  
1RESRAD-OFFSITE, Version 2.6                      T' Limit = 30 days                      09/19/2012 14:54    Page 76  
Parent Dose Report  
Title : Industrial No Cap Base  
File : INDUSTRIAL NO CAP BASE.ROF

| Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways |              |     |              |     |              |     |              |     |              |     |              |     |              |     |
|-------------------------------------------------------------------------------------|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|
| (p)                                                                                 |              |     |              |     |              |     |              |     |              |     |              |     |              |     |
| in mrem/yr and as a Percentage of Total Dose at t = 30 years                        |              |     |              |     |              |     |              |     |              |     |              |     |              |     |
| From releases to ground water and to surface water                                  |              |     |              |     |              |     |              |     |              |     |              |     |              |     |
|                                                                                     | Ground       |     | Fish         |     | Radon        |     | Plant        |     | Meat         |     | Milk         |     | Soil         |     |
| Water                                                                               |              |     |              |     |              |     |              |     |              |     |              |     |              |     |
| Radio-                                                                              | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     |
| ffffffffffff                                                                        |              |     |              |     |              |     |              |     |              |     |              |     |              |     |
| Nuclide                                                                             | Dose         | %   | Dose         | %   | Dose         | %   | Dose         | %   | Dose         | %   | Dose         | %   | Dose         | %   |
| Dose %                                                                              |              |     |              |     |              |     |              |     |              |     |              |     |              |     |
| ffffff                                                                              | ffffff       | fff | ffffff       | fff | ffffff       | fff | ffffff       | fff | ffffff       | fff | ffffff       | fff | ffffff       | fff |
| ffffff                                                                              | fff          |     |              |     |              |     |              |     |              |     |              |     |              |     |
| Ac-227                                                                              | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   |
| 0.00E+00                                                                            | 0            |     |              |     |              |     |              |     |              |     |              |     |              |     |
| Al-26                                                                               | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   |

|          |          |   |          |   |          |   |          |   |          |   |          |   |          |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Am-241   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cf-249   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cf-251   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cf-252   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cl-36    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Co-60    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cs-134   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cs-137   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Eu-154   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Eu-155   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| H-3      | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ho-166m  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Na-22    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Np-237   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pb-210   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pm-147   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |

|          |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| Pu-238   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-239   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-240   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-241   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-242   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ra-226   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ra-228   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ru-106   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sb-125   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sm-151   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sn-121m  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sn-126   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sr-90    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Th-228   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Th-230   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Th-232   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| U-233    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |

|          |          |     |          |     |          |     |          |     |          |     |          |     |          |     |
|----------|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-234    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-235    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-236    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-238    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| 00000000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 |
| 00000000 | 000      |     |          |     |          |     |          |     |          |     |          |     |          |     |
| Total    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |

1RESRAD-OFFSITE, Version 2.6                      T' Limit = 30 days                      09/19/2012 14:54 Page 77  
Parent Dose Report  
Title : Industrial No Cap Base  
File : INDUSTRIAL NO CAP BASE.ROF

| Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)        |              |     |              |     |              |     |              |     |              |     |              |     |              |     |
|------------------------------------------------------------------------------------------------|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|
| in mrem/yr and as a Percentage of Total Dose at t = 30 years                                   |              |     |              |     |              |     |              |     |              |     |              |     |              |     |
| Directly from primary contamination and from release to atmosphere (Inhalation excludes radon) |              |     |              |     |              |     |              |     |              |     |              |     |              |     |
|                                                                                                | Ground       |     | Inhalation   |     | Radon        |     | Plant        |     | Meat         |     | Milk         |     | Soil         |     |
| All Pathways*                                                                                  |              |     |              |     |              |     |              |     |              |     |              |     |              |     |
| Radio-                                                                                         | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     |
| ffffffffffff                                                                                   |              |     |              |     |              |     |              |     |              |     |              |     |              |     |
| Nuclide                                                                                        | Dose         | %   | Dose         | %   | Dose         | %   | Dose         | %   | Dose         | %   | Dose         | %   | Dose         | %   |
| Dose %                                                                                         |              |     |              |     |              |     |              |     |              |     |              |     |              |     |
| ffffff                                                                                         | ffffff       | fff | ffffff       | fff | ffffff       | fff | ffffff       | fff | ffffff       | fff | ffffff       | fff | ffffff       | fff |
| ffffff                                                                                         | fff          |     |              |     |              |     |              |     |              |     |              |     |              |     |
| Ac-227                                                                                         | 1.00E-07     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   |
| 1.00E-07                                                                                       | 0            |     |              |     |              |     |              |     |              |     |              |     |              |     |
| Al-26                                                                                          | 6.90E-02     | 97  | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   |

|          |          |   |          |   |          |   |          |   |          |   |          |   |          |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|
| 6.90E-02 | 97       |   |          |   |          |   |          |   |          |   |          |   |          |
| Am-241   | 1.77E-10 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 1.77E-10 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cf-249   | 3.85E-10 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 3.85E-10 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cf-251   | 3.50E-12 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 3.50E-12 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cf-252   | 3.08E-25 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 3.08E-25 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cl-36    | 1.00E-12 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 1.00E-12 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Co-60    | 4.93E-06 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 4.93E-06 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cs-134   | 3.75E-16 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 3.75E-16 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cs-137   | 1.65E-03 | 2 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 1.65E-03 | 2        |   |          |   |          |   |          |   |          |   |          |   |          |
| Eu-154   | 1.16E-08 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 1.16E-08 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Eu-155   | 9.77E-18 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 9.77E-18 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| H-3      | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ho-166m  | 2.13E-06 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 2.13E-06 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Na-22    | 4.48E-12 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 4.48E-12 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Np-237   | 2.11E-11 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 2.11E-11 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pb-210   | 4.38E-11 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 4.38E-11 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pm-147   | 6.87E-30 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 6.87E-30 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |

|          |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| Pu-238   | 3.69E-11 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 3.69E-11 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-239   | 2.79E-09 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 2.79E-09 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-240   | 1.39E-15 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.39E-15 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-241   | 9.56E-12 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 9.56E-12 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-242   | 9.77E-17 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 9.77E-17 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ra-226   | 1.93E-04 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.93E-04 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ra-228   | 3.74E-05 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 3.74E-05 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ru-106   | 2.27E-24 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 2.27E-24 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sb-125   | 1.34E-13 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.34E-13 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sm-151   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sn-121m  | 3.68E-17 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 3.68E-17 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sn-126   | 4.40E-07 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 4.40E-07 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sr-90    | 6.24E-08 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 6.24E-08 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Th-228   | 3.28E-11 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 3.28E-11 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Th-230   | 5.59E-05 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 5.59E-05 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Th-232   | 2.27E-06 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 2.27E-06 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| U-233    | 7.81E-09 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |

|          |          |     |          |     |          |     |          |     |          |     |          |     |          |     |
|----------|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|
| 7.81E-09 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-234    | 3.91E-09 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 3.91E-09 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-235    | 1.30E-07 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 1.30E-07 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-236    | 9.52E-14 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 9.52E-14 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-238    | 4.37E-06 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 4.37E-06 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| 00000000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 |
| 00000000 | 000      |     |          |     |          |     |          |     |          |     |          |     |          |     |
| Total    | 7.10E-02 | 100 | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 7.10E-02 | 100      |     |          |     |          |     |          |     |          |     |          |     |          |     |

0\*Sum of dose from all releases and from primary contamination.

1RESRAD-OFFSITE, Version 2.6                      T' Limit = 30 days                      09/19/2012 14:54    Page 78

Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways

(p)

in mrem/yr and as a Percentage of Total Dose at t = 100 years  
From releases to ground water and to surface water

|              |              |     |              |     |              |     |              |     |              |     |              |     |              |     |
|--------------|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|
| 0            |              |     |              |     |              |     |              |     |              |     |              |     |              |     |
| 0            | Ground       |     | Fish         |     | Radon        |     | Plant        |     | Meat         |     | Milk         |     | Soil         |     |
| Water        |              |     |              |     |              |     |              |     |              |     |              |     |              |     |
| Radio-       | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     |
| ffffffffffff |              |     |              |     |              |     |              |     |              |     |              |     |              |     |
| Nuclide      | Dose         | %   | Dose         | %   | Dose         | %   | Dose         | %   | Dose         | %   | Dose         | %   | Dose         | %   |
| Dose         | %            |     |              |     |              |     |              |     |              |     |              |     |              |     |
| ffffff       | ffffff       | fff | ffffff       | fff | ffffff       | fff | ffffff       | fff | ffffff       | fff | ffffff       | fff | ffffff       | fff |
| ffffff       | fff          |     |              |     |              |     |              |     |              |     |              |     |              |     |
| Ac-227       | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   |
| 0.00E+00     | 0            |     |              |     |              |     |              |     |              |     |              |     |              |     |

|          |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| Al-26    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Am-241   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cf-249   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cf-251   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cf-252   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cl-36    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Co-60    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cs-134   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cs-137   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Eu-154   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Eu-155   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| H-3      | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ho-166m  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Na-22    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Np-237   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pb-210   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pm-147   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |



|          |          |   |          |   |          |   |          |   |          |   |          |   |          |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-238   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-239   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-240   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-241   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-242   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ra-226   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ra-228   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ru-106   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sb-125   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sm-151   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sn-121m  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sn-126   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sr-90    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Th-228   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Th-230   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Th-232   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |

|          |          |     |          |     |          |     |          |     |          |     |          |     |          |     |
|----------|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|
| U-233    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-234    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-235    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-236    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-238    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| 00000000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 |
| 00000000 | 000      |     |          |     |          |     |          |     |          |     |          |     |          |     |
| Total    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |

1RESRAD-OFFSITE, Version 2.6

T' Limit = 30 days

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

## Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways

(p)

in mrem/yr and as a Percentage of Total Dose at t = 100 years

0 Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)

0 Ground Inhalation Radon Plant Meat Milk Soil

All Pathways\*

Radio- ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff

Nuclide Dose % Dose % Dose % Dose % Dose % Dose % Dose % Dose %

Dose %

ffffff fffffff fff fffffff fff fffffff fff fffffff fff fffffff fff fffffff fff fffffff fff fffffff fff

Ac-227 1.09E-08 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0

1.09E-08 0

|          |          |    |          |   |          |   |          |   |          |   |          |   |          |   |
|----------|----------|----|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| Al-26    | 6.96E-02 | 99 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 6.96E-02 | 99       |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Am-241   | 5.61E-10 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 5.61E-10 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Cf-249   | 3.40E-10 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 3.40E-10 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Cf-251   | 3.38E-12 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 3.38E-12 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Cf-252   | 1.11E-24 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.11E-24 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Cl-36    | 1.00E-12 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.00E-12 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Co-60    | 5.00E-10 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 5.00E-10 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Cs-134   | 2.28E-26 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 2.28E-26 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Cs-137   | 3.31E-04 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 3.31E-04 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Eu-154   | 4.74E-11 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 4.74E-11 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Eu-155   | 5.65E-22 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 5.65E-22 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| H-3      | 0.00E+00 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Ho-166m  | 2.07E-06 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 2.07E-06 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Na-22    | 3.60E-20 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 3.60E-20 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Np-237   | 2.14E-11 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 2.14E-11 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Pb-210   | 5.03E-12 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 5.03E-12 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Pm-147   | 6.54E-38 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |

|          |          |   |          |   |          |   |          |   |          |   |          |   |          |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|
| 6.54E-38 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-238   | 1.16E-09 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 1.16E-09 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-239   | 2.84E-09 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 2.84E-09 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-240   | 4.59E-15 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 4.59E-15 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-241   | 4.08E-11 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 4.08E-11 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-242   | 3.25E-16 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 3.25E-16 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ra-226   | 1.89E-04 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 1.89E-04 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ra-228   | 8.16E-09 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 8.16E-09 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ru-106   | 2.80E-45 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 2.80E-45 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sb-125   | 3.32E-21 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 3.32E-21 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sm-151   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sn-121m  | 1.56E-17 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 1.56E-17 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sn-126   | 4.44E-07 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 4.44E-07 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sr-90    | 1.20E-08 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 1.20E-08 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Th-228   | 3.19E-22 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 3.19E-22 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Th-230   | 1.83E-04 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 1.83E-04 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Th-232   | 2.38E-06 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 2.38E-06 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |

|          |          |     |          |     |          |     |          |     |          |     |          |     |          |     |
|----------|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|
| U-233    | 2.59E-08 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 2.59E-08 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-234    | 4.24E-08 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 4.24E-08 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-235    | 1.64E-07 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 1.64E-07 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-236    | 4.32E-13 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 4.32E-13 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-238    | 4.42E-06 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 4.42E-06 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| 00000000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 |
| 00000000 | 000      |     |          |     |          |     |          |     |          |     |          |     |          |     |
| Total    | 7.03E-02 | 100 | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 7.03E-02 | 100      |     |          |     |          |     |          |     |          |     |          |     |          |     |

0\*Sum of dose from all releases and from primary contamination.

1RESRAD-OFFSITE, Version 2.6                      T' Limit = 30 days                      09/19/2012 14:54    Page 80

Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways

(p)

in mrem/yr and as a Percentage of Total Dose at t = 300 years

From releases to ground water and to surface water

|              |              |     |              |     |              |     |              |     |              |     |              |     |              |     |
|--------------|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|
| 0            |              |     |              |     |              |     |              |     |              |     |              |     |              |     |
| 0            | Ground       |     | Fish         |     | Radon        |     | Plant        |     | Meat         |     | Milk         |     | Soil         |     |
| Water        |              |     |              |     |              |     |              |     |              |     |              |     |              |     |
| Radio-       | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     |
| ffffffffffff |              |     |              |     |              |     |              |     |              |     |              |     |              |     |
| Nuclide      | Dose         | %   | Dose         | %   | Dose         | %   | Dose         | %   | Dose         | %   | Dose         | %   | Dose         | %   |
| Dose         | %            |     |              |     |              |     |              |     |              |     |              |     |              |     |
| ffffff       | ffffff       | fff | ffffff       | fff | ffffff       | fff | ffffff       | fff | ffffff       | fff | ffffff       | fff | ffffff       | fff |
| ffffff       | fff          |     |              |     |              |     |              |     |              |     |              |     |              |     |
| Ac-227       | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   | 0.00E+00     | 0   |

|          |          |   |          |   |          |   |          |   |          |   |          |   |          |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Al-26    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Am-241   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cf-249   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cf-251   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cf-252   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cl-36    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Co-60    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cs-134   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Cs-137   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Eu-154   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Eu-155   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| H-3      | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ho-166m  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Na-22    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Np-237   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pb-210   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |

|          |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| Pm-147   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-238   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-239   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-240   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-241   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pu-242   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ra-226   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ra-228   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ru-106   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sb-125   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sm-151   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sn-121m  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sn-126   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Sr-90    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Th-228   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Th-230   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Th-232   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |

|          |          |     |          |     |          |     |          |     |          |     |          |     |          |     |
|----------|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-233    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-234    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-235    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-236    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-238    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| 00000000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 |
| 00000000 | 000      |     |          |     |          |     |          |     |          |     |          |     |          |     |
| Total    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |

1RESRAD-OFFSITE, Version 2.6

T' Limit = 30 days

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

Total Dose Contributions TD0SE(i,p,t) for Individual Radionuclides (i) and Pathways

(p)

in mrem/yr and as a Percentage of Total Dose at t = 300 years

0 Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)

0 Ground Inhalation Radon Plant Meat Milk Soil

All Pathways\*

Radio- ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff

Nuclide Dose % Dose % Dose % Dose % Dose % Dose % Dose % Dose %

Dose %

ffffff ffffffff fff ffffffff fff ffffffff fff ffffffff fff ffffffff fff ffffffff fff ffffffff fff fff fff

Ac-227 1.94E-11 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0



|          |          |    |          |   |          |   |          |   |          |   |          |   |          |   |
|----------|----------|----|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| 1.94E-11 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Al-26    | 7.15E-02 | 99 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 7.15E-02 | 99       |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Am-241   | 1.50E-09 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.50E-09 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Cf-249   | 2.37E-10 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 2.37E-10 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Cf-251   | 3.06E-12 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 3.06E-12 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Cf-252   | 3.50E-24 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 3.50E-24 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Cl-36    | 1.02E-12 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.02E-12 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Co-60    | 1.94E-21 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.94E-21 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Cs-134   | 0.00E+00 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Cs-137   | 3.37E-06 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 3.37E-06 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Eu-154   | 7.02E-18 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 7.02E-18 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Eu-155   | 4.39E-34 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 4.39E-34 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| H-3      | 0.00E+00 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Ho-166m  | 1.91E-06 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.91E-06 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Na-22    | 2.70E-43 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 2.70E-43 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Np-237   | 2.24E-11 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 2.24E-11 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Pb-210   | 1.04E-14 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.04E-14 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |

|                     |               |   |          |   |          |   |          |   |          |   |          |   |          |   |
|---------------------|---------------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| Pm-147<br>0.00E+00  | 0.00E+00<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Pu-238<br>2.26E-08  | 2.26E-08<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Pu-239<br>2.96E-09  | 2.96E-09<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Pu-240<br>3.68E-14  | 3.68E-14<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Pu-241<br>1.28E-10  | 1.28E-10<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Pu-242<br>1.00E-15  | 1.00E-15<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Ra-226<br>1.78E-04  | 1.78E-04<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Ra-228<br>2.82E-19  | 2.82E-19<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Ru-106<br>0.00E+00  | 0.00E+00<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Sb-125<br>6.11E-43  | 6.11E-43<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Sm-151<br>0.00E+00  | 0.00E+00<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Sn-121m<br>1.34E-18 | 1.34E-18<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Sn-126<br>4.59E-07  | 4.59E-07<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Sr-90<br>1.07E-10   | 1.07E-10<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Th-228<br>0.00E+00  | 0.00E+00<br>0 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Th-230<br>5.38E-04  | 5.38E-04<br>1 | 1 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| Th-232<br>2.43E-06  | 2.43E-06      | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |

|          |          |     |          |     |          |     |          |     |          |     |          |     |          |     |
|----------|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|
| 2.43E-06 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-233    | 7.89E-08 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 7.89E-08 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-234    | 3.78E-07 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 3.78E-07 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-235    | 2.83E-07 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 2.83E-07 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-236    | 1.43E-12 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 1.43E-12 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-238    | 4.56E-06 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 4.56E-06 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| 00000000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 |
| 00000000 | 000      |     |          |     |          |     |          |     |          |     |          |     |          |     |
| Total    | 7.22E-02 | 100 | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 7.22E-02 | 100      |     |          |     |          |     |          |     |          |     |          |     |          |     |

0\*Sum of dose from all releases and from primary contamination.  
1RESRAD-OFFSITE, Version 2.6                    T' Limit = 30 days                    09/19/2012 14:54 Page 82  
Parent Dose Report  
Title : Industrial No Cap Base  
File : INDUSTRIAL NO CAP BASE.ROF

|                                                                                     |              |     |              |     |              |     |              |     |              |     |              |     |              |
|-------------------------------------------------------------------------------------|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|
| Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways |              |     |              |     |              |     |              |     |              |     |              |     |              |
| (p)                                                                                 |              |     |              |     |              |     |              |     |              |     |              |     |              |
| in mrem/yr and as a Percentage of Total Dose at t = 1000 years                      |              |     |              |     |              |     |              |     |              |     |              |     |              |
| From releases to ground water and to surface water                                  |              |     |              |     |              |     |              |     |              |     |              |     |              |
| 0                                                                                   | Ground       |     | Fish         |     | Radon        |     | Plant        |     | Meat         |     | Milk         |     | Soil         |
| 0                                                                                   |              |     |              |     |              |     |              |     |              |     |              |     |              |
| Water                                                                               |              |     |              |     |              |     |              |     |              |     |              |     |              |
| Radio-                                                                              | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     | ffffffffffff |     | ffffffffffff |
| ffffffffffff                                                                        |              |     |              |     |              |     |              |     |              |     |              |     |              |
| Nuclide                                                                             | Dose         | %   | Dose         | %   | Dose         | %   | Dose         | %   | Dose         | %   | Dose         | %   | Dose %       |
| Dose %                                                                              |              |     |              |     |              |     |              |     |              |     |              |     |              |
| ffffff                                                                              | ffffff       | fff | ffffff       | fff | ffffff       | fff | ffffff       | fff | ffffff       | fff | ffffff       | fff | ffffff       |
| ffffff                                                                              | fff          |     | ffffff       | fff | ffffff       | fff | ffffff       | fff | ffffff       | fff | ffffff       | fff | ffffff       |

|          |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| Ac-227   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Al-26    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Am-241   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cf-249   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cf-251   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cf-252   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cl-36    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Co-60    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cs-134   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Cs-137   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Eu-154   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Eu-155   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| H-3      | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Ho-166m  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Na-22    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Np-237   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Pb-210   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |

|          |          |   |          |   |          |   |          |   |          |   |          |   |          |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pm-147   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-238   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-239   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-240   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-241   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-242   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ra-226   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ra-228   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ru-106   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sb-125   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sm-151   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sn-121m  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sn-126   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sr-90    | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Th-228   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Th-230   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |

|          |          |     |          |     |          |     |          |     |          |     |          |     |          |     |
|----------|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|
| Th-232   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-233    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-234    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-235    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-236    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-238    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| 00000000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 |
| 00000000 | 000      |     |          |     |          |     |          |     |          |     |          |     |          |     |
| Total    | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 0.00E+00 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |

1RESRAD-OFFSITE, Version 2.6                      T' Limit = 30 days                      09/19/2012 14:54 Page 83  
Parent Dose Report  
Title : Industrial No Cap Base  
File : INDUSTRIAL NO CAP BASE.ROF

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)

in mrem/yr and as a Percentage of Total Dose at t = 1000 years

0 Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)

0 Ground Inhalation Radon Plant Meat Milk Soil

All Pathways\*

|         |              |              |              |              |              |              |              |     |        |     |        |     |
|---------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----|--------|-----|--------|-----|
| Radio-  | ffffffffffff | ffffffffffff | ffffffffffff | ffffffffffff | ffffffffffff | ffffffffffff | ffffffffffff |     |        |     |        |     |
| Nuclide | Dose         | %            | Dose         | %            | Dose         | %            | Dose         | %   | Dose   | %   | Dose   | %   |
| Dose    | %            |              |              |              |              |              |              |     |        |     |        |     |
| ffffff  | ffffff       | fff          | ffffff       | fff          | ffffff       | fff          | ffffff       | fff | ffffff | fff | ffffff | fff |
| ffffff  | fff          |              |              |              |              |              |              |     |        |     |        |     |

|          |          |    |          |   |          |   |          |   |          |   |          |   |          |   |
|----------|----------|----|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| Ac-227   | 4.60E-21 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 4.60E-21 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Al-26    | 7.83E-02 | 98 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 7.83E-02 | 98       |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Am-241   | 3.65E-09 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 3.65E-09 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Cf-249   | 6.77E-11 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 6.77E-11 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Cf-251   | 2.17E-12 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 2.17E-12 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Cf-252   | 1.31E-23 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.31E-23 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Cl-36    | 1.07E-12 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.07E-12 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Co-60    | 0.00E+00 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Cs-134   | 0.00E+00 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Cs-137   | 3.58E-13 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 3.58E-13 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Eu-154   | 8.81E-42 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 8.81E-42 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Eu-155   | 0.00E+00 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| H-3      | 0.00E+00 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Ho-166m  | 1.43E-06 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 1.43E-06 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Na-22    | 0.00E+00 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 0.00E+00 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Np-237   | 2.61E-11 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |
| 2.61E-11 | 0        |    |          |   |          |   |          |   |          |   |          |   |          |   |
| Pb-210   | 4.14E-24 | 0  | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 |

|          |          |   |          |   |          |   |          |   |          |   |          |   |          |
|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|
| 4.14E-24 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pm-147   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-238   | 4.07E-07 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 4.07E-07 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-239   | 3.43E-09 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 3.43E-09 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-240   | 4.39E-13 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 4.39E-13 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-241   | 3.26E-10 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 3.26E-10 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Pu-242   | 3.71E-15 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 3.71E-15 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ra-226   | 1.44E-04 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 1.44E-04 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ra-228   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Ru-106   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sb-125   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sm-151   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sn-121m  | 2.48E-22 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 2.48E-22 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sn-126   | 5.13E-07 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 5.13E-07 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Sr-90    | 7.15E-18 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 7.15E-18 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Th-228   | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 0.00E+00 | 0        |   |          |   |          |   |          |   |          |   |          |   |          |
| Th-230   | 1.69E-03 | 2 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 | 0 | 0.00E+00 |
| 1.69E-03 | 2        |   |          |   |          |   |          |   |          |   |          |   |          |



|          |          |     |          |     |          |     |          |     |          |     |          |     |          |     |
|----------|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|
| Th-232   | 2.63E-06 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 2.63E-06 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-233    | 2.80E-07 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 2.80E-07 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-234    | 4.16E-06 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 4.16E-06 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-235    | 7.65E-07 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 7.65E-07 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-236    | 5.28E-12 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 5.28E-12 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| U-238    | 5.08E-06 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 5.08E-06 | 0        |     |          |     |          |     |          |     |          |     |          |     |          |     |
| 00000000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 | 00000000 | 000 |
| 00000000 | 000      |     |          |     |          |     |          |     |          |     |          |     |          |     |
| Total    | 8.01E-02 | 100 | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   | 0.00E+00 | 0   |
| 8.01E-02 | 100      |     |          |     |          |     |          |     |          |     |          |     |          |     |

0\*Sum of dose from all releases and from primary contamination.  
1RESRAD-OFFSITE, Version 2.6                      T' Limit = 30 days                      09/19/2012 14:54 Page 84  
Parent Dose Report  
Title : Industrial No Cap Base  
File : INDUSTRIAL NO CAP BASE.ROF

| Dose/Source Ratios Summed Over All Pathways                       |          |           |                            |           |           |           |           |           |           |        |        |        |        |
|-------------------------------------------------------------------|----------|-----------|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--------|--------|--------|--------|
| Parent and Progeny Principal Radionuclide Contributions Indicated |          |           |                            |           |           |           |           |           |           |        |        |        |        |
| 0 Parent                                                          | Product  | Thread    | DSR(j,t) (mrem/yr)/(pCi/g) |           |           |           |           |           |           |        |        |        |        |
| (i)                                                               | (j)      | Fraction  | 0.000E+00                  | 1.000E+00 | 6.000E+00 | 1.200E+01 | 3.000E+01 | 1.000E+02 | 3.000E+02 |        |        |        |        |
| 1.000E+03                                                         |          |           |                            |           |           |           |           |           |           |        |        |        |        |
| ffffff                                                            | ffffff   | ffffff    | ffffff                     | ffffff    | ffffff    | ffffff    | ffffff    | ffffff    | ffffff    | ffffff | ffffff | ffffff | ffffff |
| ffffff                                                            |          |           |                            |           |           |           |           |           |           |        |        |        |        |
| Ac-227+D                                                          | Ac-227+D | 1.000E+00 | 1.106E-07                  | 1.072E-07 | 9.146E-08 | 7.564E-08 | 4.278E-08 | 4.664E-09 | 8.293E-12 |        |        |        |        |
| 1.966E-21                                                         |          |           |                            |           |           |           |           |           |           |        |        |        |        |
| 0Al-26                                                            | Al-26    | 1.000E+00 | 8.996E-05                  | 8.998E-05 | 9.003E-05 | 9.010E-05 | 9.032E-05 | 9.114E-05 | 9.354E-05 |        |        |        |        |
| 1.025E-04                                                         |          |           |                            |           |           |           |           |           |           |        |        |        |        |

|                      |          |           |           |           |           |           |           |           |           |
|----------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0Am-241<br>2.428E-22 | Am-241   | 1.000E+00 | 6.987E-22 | 6.979E-22 | 6.942E-22 | 6.898E-22 | 6.768E-22 | 6.286E-22 | 5.088E-22 |
| Am-241<br>2.569E-12  | Np-237+D | 1.000E+00 | 2.098E-15 | 6.290E-15 | 2.718E-14 | 5.208E-14 | 1.257E-13 | 3.978E-13 | 1.065E-12 |
| Am-241<br>5.089E-19  | U-233    | 1.000E+00 | 2.399E-25 | 1.518E-24 | 2.702E-23 | 9.953E-23 | 5.890E-22 | 6.268E-21 | 5.313E-20 |
| Am-241<br>1.701E-14  | Th-229+D | 1.000E+00 | 6.772E-24 | 8.534E-23 | 5.981E-21 | 4.217E-20 | 6.080E-19 | 2.132E-17 | 5.406E-16 |
| Am-241<br>2.586E-12  | %DSR(j)  |           | 2.098E-15 | 6.290E-15 | 2.718E-14 | 5.208E-14 | 1.257E-13 | 3.978E-13 | 1.065E-12 |
| 0Cf-249<br>1.087E-16 | Cf-249   | 5.200E-09 | 6.520E-16 | 6.509E-16 | 6.451E-16 | 6.382E-16 | 6.179E-16 | 5.451E-16 | 3.809E-16 |
| 0Cf-249<br>2.090E-08 | Cf-249   | 1.000E+00 | 1.254E-07 | 1.252E-07 | 1.240E-07 | 1.227E-07 | 1.188E-07 | 1.048E-07 | 7.325E-08 |
| Cf-249<br>2.684E-13  | Cm-245   | 1.000E+00 | 2.432E-16 | 7.293E-16 | 3.149E-15 | 6.029E-15 | 1.452E-14 | 4.548E-14 | 1.187E-13 |
| Cf-249<br>1.013E-18  | Pu-241   | 1.000E+00 | 1.616E-23 | 1.010E-22 | 1.665E-21 | 5.606E-21 | 2.594E-20 | 1.370E-19 | 4.212E-19 |
| Cf-249<br>2.496E-23  | Am-241   | 1.000E+00 | 2.277E-31 | 2.838E-30 | 1.879E-28 | 1.238E-27 | 1.478E-26 | 2.946E-25 | 3.023E-24 |
| Cf-249<br>4.645E-14  | Np-237+D | 1.000E+00 | 3.092E-25 | 7.383E-24 | 1.878E-21 | 2.391E-20 | 7.178E-19 | 5.104E-17 | 1.680E-15 |
| Cf-249<br>4.230E-21  | U-233    | 1.000E+00 | 0.000E+00 | 0.000E+00 | 7.582E-31 | 1.866E-29 | 1.398E-27 | 3.526E-25 | 3.852E-23 |
| Cf-249<br>8.350E-17  | Th-229+D | 1.000E+00 | 0.000E+00 | 0.000E+00 | 1.144E-27 | 9.728E-27 | 7.403E-25 | 6.459E-22 | 2.222E-19 |
| Cf-249<br>2.090E-08  | %DSR(j)  |           | 1.254E-07 | 1.252E-07 | 1.240E-07 | 1.227E-07 | 1.188E-07 | 1.048E-07 | 7.325E-08 |
| 0Cf-249<br>5.120E-13 | Cf-249   | 2.450E-05 | 3.072E-12 | 3.067E-12 | 3.039E-12 | 3.007E-12 | 2.911E-12 | 2.568E-12 | 1.795E-12 |
| Cf-249<br>6.576E-18  | Cm-245   | 2.450E-05 | 5.960E-21 | 1.787E-20 | 7.715E-20 | 1.477E-19 | 3.557E-19 | 1.114E-18 | 2.907E-18 |
| Cf-249               | Pu-241+D | 2.450E-05 | 1.531E-21 | 9.560E-21 | 1.576E-19 | 5.305E-19 | 2.453E-18 | 1.291E-17 | 3.933E-17 |

|           |          |           |           |           |           |           |           |           |           |  |
|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| 9.150E-17 |          |           |           |           |           |           |           |           |           |  |
| Cf-249    | Np-237+D | 2.450E-05 | 2.089E-26 | 2.604E-25 | 1.724E-23 | 1.136E-22 | 1.359E-21 | 2.736E-20 | 2.915E-19 |  |
| 2.766E-18 |          |           |           |           |           |           |           |           |           |  |
| Cf-249    | U-233    | 2.450E-05 | 1.283E-36 | 3.415E-35 | 8.750E-33 | 1.117E-31 | 3.375E-30 | 2.468E-28 | 8.836E-27 |  |
| 3.273E-25 |          |           |           |           |           |           |           |           |           |  |
| Cf-249    | Th-229+D | 2.450E-05 | 0.000E+00 | 0.000E+00 | 1.044E-30 | 2.910E-29 | 2.178E-27 | 5.559E-25 | 6.307E-23 |  |
| 7.860E-21 |          |           |           |           |           |           |           |           |           |  |
| Cf-249    | %DSR(j)  |           | 3.072E-12 | 3.067E-12 | 3.039E-12 | 3.007E-12 | 2.911E-12 | 2.568E-12 | 1.795E-12 |  |
| 5.121E-13 |          |           |           |           |           |           |           |           |           |  |
| 0Cf-251   | Cf-251   | 1.000E+00 | 2.650E-10 | 2.649E-10 | 2.642E-10 | 2.634E-10 | 2.609E-10 | 2.515E-10 | 2.264E-10 |  |
| 1.567E-10 |          |           |           |           |           |           |           |           |           |  |
| Cf-251    | Cm-247+D | 1.000E+00 | 3.090E-15 | 9.270E-15 | 4.013E-14 | 7.708E-14 | 1.874E-13 | 6.089E-13 | 1.752E-12 |  |
| 5.177E-12 |          |           |           |           |           |           |           |           |           |  |
| Cf-251    | Am-243+D | 1.000E+00 | 3.965E-22 | 2.510E-21 | 4.472E-20 | 1.649E-19 | 9.804E-19 | 1.061E-17 | 9.411E-17 |  |
| 1.024E-15 |          |           |           |           |           |           |           |           |           |  |
| Cf-251    | Pu-239   | 1.000E+00 | 1.888E-30 | 2.377E-29 | 1.668E-27 | 1.178E-26 | 1.708E-25 | 6.113E-24 | 1.639E-22 |  |
| 6.157E-21 |          |           |           |           |           |           |           |           |           |  |
| Cf-251    | U-235+D  | 1.000E+00 | 0.000E+00 | 2.835E-34 | 5.369E-33 | 6.784E-32 | 2.405E-30 | 2.846E-28 | 2.304E-26 |  |
| 2.976E-24 |          |           |           |           |           |           |           |           |           |  |
| Cf-251    | Pa-231   | 1.000E+00 | 0.000E+00 | 1.724E-33 | 1.645E-33 | 2.809E-33 | 3.319E-33 | 6.829E-31 | 1.673E-28 |  |
| 7.123E-26 |          |           |           |           |           |           |           |           |           |  |
| Cf-251    | Ac-227+D | 1.000E+00 | 0.000E+00 | 5.400E-32 | 1.381E-32 | 5.621E-32 | 0.000E+00 | 7.965E-30 | 3.715E-27 |  |
| 2.088E-24 |          |           |           |           |           |           |           |           |           |  |
| Cf-251    | %DSR(j)  |           | 2.650E-10 | 2.649E-10 | 2.642E-10 | 2.635E-10 | 2.611E-10 | 2.521E-10 | 2.281E-10 |  |
| 1.619E-10 |          |           |           |           |           |           |           |           |           |  |
| 0Cf-252   | Cf-252   | 3.092E-02 | 2.957E-18 | 2.274E-18 | 6.126E-19 | 1.269E-19 | 1.128E-21 | 1.185E-29 | 0.000E+00 |  |
| 0.000E+00 |          |           |           |           |           |           |           |           |           |  |
| 0Cf-252   | Cf-252   | 8.005E-02 | 7.654E-18 | 5.888E-18 | 1.586E-18 | 3.286E-19 | 2.921E-21 | 3.069E-29 | 0.000E+00 |  |
| 0.000E+00 |          |           |           |           |           |           |           |           |           |  |
| Cf-252    | Cm-248   | 8.005E-02 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| 0.000E+00 |          |           |           |           |           |           |           |           |           |  |
| Cf-252    | %DSR(j)  |           | 7.654E-18 | 5.888E-18 | 1.586E-18 | 3.286E-19 | 2.921E-21 | 3.069E-29 | 0.000E+00 |  |
| 0.000E+00 |          |           |           |           |           |           |           |           |           |  |

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T' Limit = 30 days

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

| Dose/Source Ratios Summed Over All Pathways                       |                |                    |                            |            |            |            |            |            |            |            |
|-------------------------------------------------------------------|----------------|--------------------|----------------------------|------------|------------|------------|------------|------------|------------|------------|
| Parent and Progeny Principal Radionuclide Contributions Indicated |                |                    |                            |            |            |            |            |            |            |            |
| Parent<br>(i)                                                     | Product<br>(j) | Thread<br>Fraction | DSR(j,t) (mrem/yr)/(pCi/g) |            |            |            |            |            |            |            |
|                                                                   |                |                    | 0.000E+00                  | 1.000E+00  | 6.000E+00  | 1.200E+01  | 3.000E+01  | 1.000E+02  | 3.000E+02  |            |
| 1.000E+03                                                         |                |                    |                            |            |            |            |            |            |            |            |
| ffffffffff                                                        | ffffffffff     | ffffffffff         | ffffffffff                 | ffffffffff | ffffffffff | ffffffffff | ffffffffff | ffffffffff | ffffffffff | ffffffffff |
| 0.000E+00                                                         |                |                    |                            |            |            |            |            |            |            |            |
| Cf-252                                                            | Cf-252         | 1.111E-03          | 1.063E-19                  | 8.174E-20  | 2.202E-20  | 4.562E-21  | 4.055E-23  | 4.260E-31  | 0.000E+00  |            |
| 0.000E+00                                                         |                |                    |                            |            |            |            |            |            |            |            |
| Cf-252                                                            | Cm-248         | 1.111E-03          | 0.000E+00                  | 0.000E+00  | 0.000E+00  | 0.000E+00  | 0.000E+00  | 0.000E+00  | 0.000E+00  |            |
| 0.000E+00                                                         |                |                    |                            |            |            |            |            |            |            |            |
| Cf-252                                                            | Pu-244         | 1.111E-03          | 0.000E+00                  | 0.000E+00  | 0.000E+00  | 0.000E+00  | 0.000E+00  | 0.000E+00  | 0.000E+00  |            |
| 0.000E+00                                                         |                |                    |                            |            |            |            |            |            |            |            |
| Cf-252                                                            | %DSR(j)        |                    | 1.063E-19                  | 8.174E-20  | 2.202E-20  | 4.562E-21  | 4.055E-23  | 4.260E-31  | 0.000E+00  |            |
| 0.000E+00                                                         |                |                    |                            |            |            |            |            |            |            |            |
| 0Cf-252                                                           | Cf-252         | 4.395E-08          | 4.203E-24                  | 3.233E-24  | 8.708E-25  | 1.804E-25  | 1.604E-27  | 1.684E-35  | 0.000E+00  |            |
| 0.000E+00                                                         |                |                    |                            |            |            |            |            |            |            |            |
| Cf-252                                                            | Cm-248         | 4.395E-08          | 0.000E+00                  | 0.000E+00  | 0.000E+00  | 0.000E+00  | 0.000E+00  | 0.000E+00  | 0.000E+00  |            |
| 0.000E+00                                                         |                |                    |                            |            |            |            |            |            |            |            |
| Cf-252                                                            | Pu-244+D       | 4.395E-08          | 1.697E-28                  | 1.004E-27  | 1.252E-26  | 3.270E-26  | 9.905E-26  | 3.627E-25  | 1.148E-24  |            |
| 4.303E-24                                                         |                |                    |                            |            |            |            |            |            |            |            |
| Cf-252                                                            | Pu-240         | 4.395E-08          | 0.000E+00                  | 0.000E+00  | 0.000E+00  | 0.000E+00  | 0.000E+00  | 0.000E+00  | 9.280E-39  |            |
| 1.021E-37                                                         |                |                    |                            |            |            |            |            |            |            |            |
| Cf-252                                                            | %DSR(j)        |                    | 4.203E-24                  | 3.234E-24  | 8.833E-25  | 2.131E-25  | 1.007E-25  | 3.627E-25  | 1.148E-24  |            |
| 4.303E-24                                                         |                |                    |                            |            |            |            |            |            |            |            |
| 0Cf-252                                                           | Cf-252         | 8.879E-01          | 8.490E-17                  | 6.531E-17  | 1.759E-17  | 3.645E-18  | 3.240E-20  | 3.404E-28  | 0.000E+00  |            |
| 0.000E+00                                                         |                |                    |                            |            |            |            |            |            |            |            |
| Cf-252                                                            | Cm-248         | 8.879E-01          | 0.000E+00                  | 0.000E+00  | 0.000E+00  | 0.000E+00  | 0.000E+00  | 0.000E+00  | 0.000E+00  |            |

|           |          |           |           |           |           |           |           |           |           |  |
|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| 0.000E+00 |          |           |           |           |           |           |           |           |           |  |
| Cf-252    | Pu-244+D | 8.879E-01 | 3.429E-21 | 2.028E-20 | 2.530E-19 | 6.606E-19 | 2.001E-18 | 7.328E-18 | 2.320E-17 |  |
| 8.693E-17 |          |           |           |           |           |           |           |           |           |  |
| Cf-252    | Pu-240   | 8.879E-01 | 3.712E-38 | 4.826E-37 | 2.556E-35 | 1.374E-34 | 1.128E-33 | 1.488E-32 | 1.499E-31 |  |
| 2.154E-30 |          |           |           |           |           |           |           |           |           |  |
| Cf-252    | U-236    | 8.879E-01 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.856E-38 | 6.867E-37 | 2.087E-35 |  |
| 9.886E-34 |          |           |           |           |           |           |           |           |           |  |
| Cf-252    | Th-232   | 8.879E-01 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| 0.000E+00 |          |           |           |           |           |           |           |           |           |  |
| Cf-252    | Ra-228+D | 8.879E-01 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.404E-32 |  |
| 4.053E-30 |          |           |           |           |           |           |           |           |           |  |
| Cf-252    | Th-228+D | 8.879E-01 | 2.539E-32 | 5.943E-32 | 1.629E-31 | 1.243E-31 | 1.287E-31 | 1.298E-31 | 7.265E-31 |  |
| 8.808E-29 |          |           |           |           |           |           |           |           |           |  |
| Cf-252    | %DSR(j)  |           | 8.491E-17 | 6.533E-17 | 1.785E-17 | 4.306E-18 | 2.033E-18 | 7.328E-18 | 2.320E-17 |  |
| 8.693E-17 |          |           |           |           |           |           |           |           |           |  |
| 0Cl-36    | Cl-36    | 1.000E+00 | 3.575E-12 | 3.576E-12 | 3.577E-12 | 3.578E-12 | 3.583E-12 | 3.601E-12 | 3.653E-12 |  |
| 3.839E-12 |          |           |           |           |           |           |           |           |           |  |
| 0Co-60    | Co-60    | 1.000E+00 | 5.219E-05 | 4.576E-05 | 2.373E-05 | 1.079E-05 | 1.014E-06 | 1.029E-10 | 3.995E-22 |  |
| 0.000E+00 |          |           |           |           |           |           |           |           |           |  |
| 0Cs-134   | Cs-134   | 1.000E+00 | 3.400E-06 | 2.430E-06 | 4.533E-07 | 6.043E-08 | 1.430E-10 | 8.720E-21 | 0.000E+00 |  |
| 0.000E+00 |          |           |           |           |           |           |           |           |           |  |
| 0Cs-137+D | Cs-137+D | 1.000E+00 | 1.076E-06 | 1.051E-06 | 9.376E-07 | 8.170E-07 | 5.406E-07 | 1.085E-07 | 1.104E-09 |  |
| 1.173E-16 |          |           |           |           |           |           |           |           |           |  |
| 0Eu-154   | Eu-154   | 1.000E+00 | 1.240E-05 | 1.146E-05 | 7.734E-06 | 4.826E-06 | 1.172E-06 | 4.773E-09 | 7.077E-16 |  |
| 8.880E-40 |          |           |           |           |           |           |           |           |           |  |
| 0Eu-155   | Eu-155   | 1.000E+00 | 7.340E-14 | 6.385E-14 | 3.180E-14 | 1.378E-14 | 1.121E-15 | 6.474E-20 | 5.034E-32 |  |
| 0.000E+00 |          |           |           |           |           |           |           |           |           |  |
| 0H-3      | H-3      | 1.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| 0.000E+00 |          |           |           |           |           |           |           |           |           |  |
| 0Ho-166m  | Ho-166m  | 1.000E+00 | 4.300E-06 | 4.299E-06 | 4.290E-06 | 4.279E-06 | 4.247E-06 | 4.126E-06 | 3.797E-06 |  |
| 2.839E-06 |          |           |           |           |           |           |           |           |           |  |
| 0Na-22    | Na-22    | 1.000E+00 | 1.174E-05 | 8.993E-06 | 2.377E-06 | 4.814E-07 | 3.996E-09 | 3.217E-17 | 2.415E-40 |  |
| 0.000E+00 |          |           |           |           |           |           |           |           |           |  |

|           |          |           |           |           |           |           |           |           |           |
|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0Np-237+D | Np-237+D | 1.000E+00 | 1.296E-08 | 1.296E-08 | 1.298E-08 | 1.299E-08 | 1.304E-08 | 1.323E-08 | 1.378E-08 |
| 1.592E-08 |          |           |           |           |           |           |           |           |           |
| Np-237+D  | U-233    | 1.000E+00 | 1.972E-18 | 5.918E-18 | 2.567E-17 | 4.945E-17 | 1.212E-16 | 4.060E-16 | 1.274E-15 |
| 5.015E-15 |          |           |           |           |           |           |           |           |           |
| Np-237+D  | Th-229+D | 1.000E+00 | 7.518E-17 | 4.760E-16 | 8.488E-15 | 3.134E-14 | 1.868E-13 | 2.043E-12 | 1.867E-11 |
| 2.235E-10 |          |           |           |           |           |           |           |           |           |
| Np-237    | %DSR(j)  |           | 1.296E-08 | 1.296E-08 | 1.298E-08 | 1.299E-08 | 1.304E-08 | 1.323E-08 | 1.380E-08 |
| 1.614E-08 |          |           |           |           |           |           |           |           |           |

1RESRAD-OFFSITE, Version 2.6                      T' Limit = 30 days                      09/19/2012 14:54 Page 86

Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

#### Dose/Source Ratios Summed Over All Pathways

#### Parent and Progeny Principal Radionuclide Contributions Indicated

| 0 Parent<br>(i) | Product<br>(j) | Thread<br>Fraction | DSR(j,t) (mrem/yr)/(pCi/g) |            |            |            |            |            |            |  |
|-----------------|----------------|--------------------|----------------------------|------------|------------|------------|------------|------------|------------|--|
|                 |                |                    | 0.000E+00                  | 1.000E+00  | 6.000E+00  | 1.200E+01  | 3.000E+01  | 1.000E+02  | 3.000E+02  |  |
| 1.000E+03       |                |                    | ffffffffff                 | ffffffffff | ffffffffff | ffffffffff | ffffffffff | ffffffffff | ffffffffff |  |
| Pb-210+D        | Pb-210+D       | 1.000E+00          | 5.184E-12                  | 5.027E-12  | 4.308E-12  | 3.580E-12  | 2.055E-12  | 2.371E-13  | 4.957E-16  |  |
| 2.072E-25       |                |                    |                            |            |            |            |            |            |            |  |
| Pb-210+D        | Po-210         | 1.000E+00          | 1.686E-11                  | 2.989E-11  | 2.793E-11  | 2.320E-11  | 1.330E-11  | 1.526E-12  | 3.144E-15  |  |
| 1.247E-24       |                |                    |                            |            |            |            |            |            |            |  |
| Pb-210          | %DSR(j)        |                    | 2.205E-11                  | 3.492E-11  | 3.224E-11  | 2.678E-11  | 1.535E-11  | 1.763E-12  | 3.639E-15  |  |
| 1.454E-24       |                |                    |                            |            |            |            |            |            |            |  |
| 0Pm-147         | Pm-147         | 1.000E+00          | 1.372E-18                  | 1.054E-18  | 2.818E-19  | 5.790E-20  | 5.018E-22  | 4.774E-30  | 0.000E+00  |  |
| 0.000E+00       |                |                    |                            |            |            |            |            |            |            |  |
| Pm-147          | Sm-147         | 1.000E+00          | 0.000E+00                  | 0.000E+00  | 0.000E+00  | 0.000E+00  | 0.000E+00  | 0.000E+00  | 0.000E+00  |  |
| 0.000E+00       |                |                    |                            |            |            |            |            |            |            |  |
| Pm-147          | %DSR(j)        |                    | 1.372E-18                  | 1.054E-18  | 2.818E-19  | 5.790E-20  | 5.018E-22  | 4.774E-30  | 0.000E+00  |  |
| 0.000E+00       |                |                    |                            |            |            |            |            |            |            |  |
| 0Pu-238         | Pu-238         | 1.840E-09          | 2.047E-26                  | 2.032E-26  | 1.956E-26  | 1.870E-26  | 1.632E-26  | 9.614E-27  | 2.121E-27  |  |

|           |          |           |           |           |           |           |           |           |           |  |
|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| 1.069E-29 |          |           |           |           |           |           |           |           |           |  |
| 0Pu-238   | Pu-238   | 1.000E+00 | 1.113E-17 | 1.104E-17 | 1.063E-17 | 1.016E-17 | 8.868E-18 | 5.225E-18 | 1.153E-18 |  |
| 5.809E-21 |          |           |           |           |           |           |           |           |           |  |
| Pu-238    | U-234    | 1.000E+00 | 1.350E-22 | 4.038E-22 | 1.719E-21 | 3.236E-21 | 7.413E-21 | 1.942E-20 | 3.438E-20 |  |
| 4.792E-20 |          |           |           |           |           |           |           |           |           |  |
| Pu-238    | Th-230   | 1.000E+00 | 4.374E-27 | 2.764E-26 | 4.871E-25 | 1.773E-24 | 1.013E-23 | 9.498E-23 | 6.040E-22 |  |
| 3.558E-21 |          |           |           |           |           |           |           |           |           |  |
| Pu-238    | Ra-226+D | 1.000E+00 | 2.926E-20 | 3.678E-19 | 2.557E-17 | 1.785E-16 | 2.500E-15 | 7.872E-14 | 1.539E-12 |  |
| 2.767E-11 |          |           |           |           |           |           |           |           |           |  |
| Pu-238    | Pb-210+D | 1.000E+00 | 2.129E-29 | 5.078E-28 | 1.306E-25 | 1.685E-24 | 5.226E-23 | 3.956E-21 | 1.267E-19 |  |
| 2.972E-18 |          |           |           |           |           |           |           |           |           |  |
| Pu-238    | Po-210   | 1.000E+00 | 3.485E-29 | 1.330E-27 | 6.157E-25 | 9.118E-24 | 3.110E-22 | 2.458E-20 | 7.855E-19 |  |
| 1.756E-17 |          |           |           |           |           |           |           |           |           |  |
| Pu-238    | %DSR(j)  |           | 1.115E-17 | 1.141E-17 | 3.620E-17 | 1.887E-16 | 2.508E-15 | 7.873E-14 | 1.539E-12 |  |
| 2.767E-11 |          |           |           |           |           |           |           |           |           |  |
| 0Pu-239   | Pu-239   | 1.000E+00 | 3.002E-13 | 3.003E-13 | 3.006E-13 | 3.010E-13 | 3.021E-13 | 3.065E-13 | 3.195E-13 |  |
| 3.693E-13 |          |           |           |           |           |           |           |           |           |  |
| Pu-239    | U-235+D  | 1.000E+00 | 2.768E-19 | 8.305E-19 | 3.603E-18 | 6.938E-18 | 1.700E-17 | 5.690E-17 | 1.780E-16 |  |
| 6.943E-16 |          |           |           |           |           |           |           |           |           |  |
| Pu-239    | Pa-231   | 1.000E+00 | 1.261E-23 | 7.986E-23 | 1.425E-21 | 5.262E-21 | 3.141E-20 | 3.454E-19 | 3.205E-18 |  |
| 4.045E-17 |          |           |           |           |           |           |           |           |           |  |
| Pu-239    | Ac-227+D | 1.000E+00 | 3.872E-24 | 4.845E-23 | 3.277E-21 | 2.213E-20 | 2.827E-19 | 6.756E-18 | 9.012E-17 |  |
| 1.289E-15 |          |           |           |           |           |           |           |           |           |  |
| Pu-239    | %DSR(j)  |           | 3.002E-13 | 3.003E-13 | 3.006E-13 | 3.010E-13 | 3.021E-13 | 3.066E-13 | 3.198E-13 |  |
| 3.713E-13 |          |           |           |           |           |           |           |           |           |  |
| 0Pu-240   | Pu-240   | 4.950E-08 | 2.472E-26 | 2.473E-26 | 2.476E-26 | 2.480E-26 | 2.492E-26 | 2.541E-26 | 2.684E-26 |  |
| 3.254E-26 |          |           |           |           |           |           |           |           |           |  |
| 0Pu-240   | Pu-240   | 1.000E+00 | 4.994E-19 | 4.995E-19 | 5.002E-19 | 5.010E-19 | 5.035E-19 | 5.133E-19 | 5.423E-19 |  |
| 6.573E-19 |          |           |           |           |           |           |           |           |           |  |
| Pu-240    | U-236    | 1.000E+00 | 3.542E-25 | 1.063E-24 | 4.612E-24 | 8.885E-24 | 2.179E-23 | 7.330E-23 | 2.324E-22 |  |
| 9.497E-22 |          |           |           |           |           |           |           |           |           |  |
| Pu-240    | Th-232   | 1.000E+00 | 5.399E-36 | 3.419E-35 | 6.103E-34 | 2.256E-33 | 1.350E-32 | 1.500E-31 | 1.432E-30 |  |
| 1.997E-29 |          |           |           |           |           |           |           |           |           |  |

|           |          |           |           |           |           |           |           |           |           |
|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Pu-240    | Ra-228+D | 1.000E+00 | 8.999E-26 | 1.106E-24 | 6.782E-23 | 4.118E-22 | 4.107E-21 | 6.351E-20 | 6.472E-19 |
| 8.052E-18 |          |           |           |           |           |           |           |           |           |
| Pu-240    | Th-228+D | 1.000E+00 | 1.569E-25 | 3.499E-24 | 6.232E-22 | 5.493E-21 | 7.493E-20 | 1.354E-18 | 1.427E-17 |
| 1.755E-16 |          |           |           |           |           |           |           |           |           |
| Pu-240    | %DSR(j)  |           | 4.994E-19 | 4.995E-19 | 5.009E-19 | 5.069E-19 | 5.826E-19 | 1.931E-18 | 1.546E-17 |
| 1.842E-16 |          |           |           |           |           |           |           |           |           |
| 0Pu-241   | Pu-241   | 1.000E+00 | 2.170E-17 | 2.069E-17 | 1.629E-17 | 1.222E-17 | 5.168E-18 | 1.817E-19 | 1.274E-23 |
| 3.674E-38 |          |           |           |           |           |           |           |           |           |
| Pu-241    | Am-241   | 1.000E+00 | 5.504E-25 | 1.618E-24 | 6.242E-24 | 1.048E-23 | 1.768E-23 | 2.146E-23 | 1.754E-23 |
| 8.368E-24 |          |           |           |           |           |           |           |           |           |
| Pu-241    | Np-237+D | 1.000E+00 | 1.248E-18 | 7.793E-18 | 1.285E-16 | 4.329E-16 | 2.006E-15 | 1.066E-14 | 3.350E-14 |
| 8.486E-14 |          |           |           |           |           |           |           |           |           |
| Pu-241    | U-233    | 1.000E+00 | 1.060E-28 | 1.322E-27 | 8.758E-26 | 5.778E-25 | 6.929E-24 | 1.412E-22 | 1.556E-21 |
| 1.640E-20 |          |           |           |           |           |           |           |           |           |
| Pu-241    | Th-229+D | 1.000E+00 | 2.159E-27 | 5.778E-26 | 1.480E-23 | 1.889E-22 | 5.706E-21 | 4.167E-19 | 1.486E-17 |
| 5.364E-16 |          |           |           |           |           |           |           |           |           |
| Pu-241    | %DSR(j)  |           | 2.295E-17 | 2.848E-17 | 1.448E-16 | 4.452E-16 | 2.011E-15 | 1.067E-14 | 3.351E-14 |
| 8.539E-14 |          |           |           |           |           |           |           |           |           |

1RESRAD-OFFSITE, Version 2.6

T' Limit = 30 days

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

## Dose/Source Ratios Summed Over All Pathways

Parent and Progeny Principal Radionuclide Contributions Indicated

| 0 Parent  | Product  | Thread    | DSR(j,t) (mrem/yr)/(pCi/g) |            |            |            |            |            |            |  |
|-----------|----------|-----------|----------------------------|------------|------------|------------|------------|------------|------------|--|
| (i)       | (j)      | Fraction  | 0.000E+00                  | 1.000E+00  | 6.000E+00  | 1.200E+01  | 3.000E+01  | 1.000E+02  | 3.000E+02  |  |
| 1.000E+03 |          |           | ffffffffff                 | ffffffffff | ffffffffff | ffffffffff | ffffffffff | ffffffffff | ffffffffff |  |
| Pu-241+D  | Pu-241+D | 2.450E-05 | 2.055E-15                  | 1.959E-15  | 1.542E-15  | 1.157E-15  | 4.887E-16  | 1.712E-17  | 1.189E-21  |  |
| 3.319E-36 |          |           |                            |            |            |            |            |            |            |  |
| Pu-241+D  | Np-237+D | 2.450E-05 | 5.051E-20                  | 1.486E-19  | 5.745E-19  | 9.682E-19  | 1.655E-18  | 2.164E-18  | 2.273E-18  |  |



|           |          |           |           |           |           |           |           |           |           |  |  |
|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|
| 2.624E-18 |          |           |           |           |           |           |           |           |           |  |  |
| Pu-241+D  | U-233    | 2.450E-05 | 5.803E-30 | 3.626E-29 | 5.998E-28 | 2.028E-27 | 9.505E-27 | 5.321E-26 | 1.955E-25 |  |  |
| 8.097E-25 |          |           |           |           |           |           |           |           |           |  |  |
| Pu-241+D  | Th-229+D | 2.450E-05 | 1.644E-28 | 2.050E-27 | 1.360E-25 | 8.988E-25 | 1.084E-23 | 2.262E-22 | 2.684E-21 |  |  |
| 3.538E-20 |          |           |           |           |           |           |           |           |           |  |  |
| Pu-241    | %DSR(j)  |           | 2.055E-15 | 1.959E-15 | 1.542E-15 | 1.158E-15 | 4.904E-16 | 1.929E-17 | 2.276E-18 |  |  |
| 2.659E-18 |          |           |           |           |           |           |           |           |           |  |  |
| 0Pu-242   | Pu-242   | 5.500E-06 | 7.093E-24 | 7.095E-24 | 7.108E-24 | 7.124E-24 | 7.171E-24 | 7.358E-24 | 7.918E-24 |  |  |
| 1.024E-23 |          |           |           |           |           |           |           |           |           |  |  |
| 0Pu-242   | Pu-242   | 5.400E-05 | 6.964E-23 | 6.966E-23 | 6.979E-23 | 6.994E-23 | 7.041E-23 | 7.224E-23 | 7.774E-23 |  |  |
| 1.005E-22 |          |           |           |           |           |           |           |           |           |  |  |
| Pu-242    | U-238    | 5.400E-05 | 0.000E+00 | 0.000E+00 | 5.605E-45 | 5.605E-45 | 1.682E-44 | 5.605E-44 | 1.892E-43 |  |  |
| 1.068E-42 |          |           |           |           |           |           |           |           |           |  |  |
| Pu-242    | %DSR(j)  |           | 6.964E-23 | 6.966E-23 | 6.979E-23 | 6.994E-23 | 7.041E-23 | 7.224E-23 | 7.774E-23 |  |  |
| 1.005E-22 |          |           |           |           |           |           |           |           |           |  |  |
| 0Pu-242   | Pu-242   | 9.999E-01 | 1.290E-18 | 1.290E-18 | 1.292E-18 | 1.295E-18 | 1.304E-18 | 1.338E-18 | 1.440E-18 |  |  |
| 1.861E-18 |          |           |           |           |           |           |           |           |           |  |  |
| Pu-242    | U-238+D  | 9.999E-01 | 6.303E-18 | 1.891E-17 | 8.201E-17 | 1.579E-16 | 3.863E-16 | 1.287E-15 | 3.969E-15 |  |  |
| 1.473E-14 |          |           |           |           |           |           |           |           |           |  |  |
| Pu-242    | U-234    | 9.999E-01 | 7.892E-33 | 4.998E-32 | 8.921E-31 | 3.298E-30 | 1.974E-29 | 2.194E-28 | 2.098E-27 |  |  |
| 2.944E-26 |          |           |           |           |           |           |           |           |           |  |  |
| Pu-242    | Th-230   | 9.999E-01 | 4.926E-36 | 9.440E-36 | 1.637E-34 | 1.172E-33 | 1.731E-32 | 6.324E-31 | 1.803E-29 |  |  |
| 8.342E-28 |          |           |           |           |           |           |           |           |           |  |  |
| Pu-242    | Ra-226+D | 9.999E-01 | 2.660E-25 | 3.964E-25 | 9.555E-26 | 0.000E+00 | 4.074E-24 | 3.713E-22 | 2.990E-20 |  |  |
| 3.790E-18 |          |           |           |           |           |           |           |           |           |  |  |
| Pu-242    | Pb-210+D | 9.999E-01 | 2.613E-32 | 3.668E-32 | 0.000E+00 | 0.000E+00 | 3.848E-32 | 1.554E-29 | 2.191E-27 |  |  |
| 3.857E-25 |          |           |           |           |           |           |           |           |           |  |  |
| Pu-242    | Po-210   | 9.999E-01 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 9.493E-29 | 1.355E-26 |  |  |
| 2.276E-24 |          |           |           |           |           |           |           |           |           |  |  |
| Pu-242    | %DSR(j)  |           | 7.593E-18 | 2.020E-17 | 8.331E-17 | 1.592E-16 | 3.876E-16 | 1.288E-15 | 3.970E-15 |  |  |
| 1.474E-14 |          |           |           |           |           |           |           |           |           |  |  |
| 0Ra-226+D | Ra-226+D | 1.000E+00 | 5.066E-05 | 5.065E-05 | 5.057E-05 | 5.048E-05 | 5.020E-05 | 4.915E-05 | 4.627E-05 |  |  |
| 3.745E-05 |          |           |           |           |           |           |           |           |           |  |  |

|                         |           |           |           |           |           |           |           |           |           |
|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Ra-226+D<br>4.367E-12   | Pb-210+D  | 1.000E+00 | 8.087E-14 | 2.395E-13 | 9.629E-13 | 1.695E-12 | 3.223E-12 | 4.992E-12 | 5.026E-12 |
| Ra-226+D<br>2.584E-11   | Po-210    | 1.000E+00 | 2.292E-13 | 1.019E-12 | 5.663E-12 | 1.040E-11 | 2.028E-11 | 3.157E-11 | 3.134E-11 |
| Ra-226<br>3.745E-05     | %DSR(j)   |           | 5.066E-05 | 5.065E-05 | 5.057E-05 | 5.048E-05 | 5.020E-05 | 4.915E-05 | 4.627E-05 |
| 0Ra-228+D<br>0.000E+00  | Ra-228+D  | 1.000E+00 | 9.457E-06 | 8.384E-06 | 4.592E-06 | 2.230E-06 | 2.554E-07 | 5.583E-11 | 1.945E-21 |
| Ra-228+D<br>0.000E+00   | Th-228+D  | 1.000E+00 | 3.453E-05 | 8.523E-05 | 1.234E-04 | 7.209E-05 | 8.671E-06 | 1.892E-09 | 6.546E-20 |
| Ra-228<br>0.000E+00     | %DSR(j)   |           | 4.398E-05 | 9.362E-05 | 1.280E-04 | 7.432E-05 | 8.927E-06 | 1.948E-09 | 6.741E-20 |
| 0Ru-106+D<br>0.000E+00  | Ru-106+D  | 1.000E+00 | 2.612E-07 | 1.314E-07 | 4.238E-09 | 6.871E-11 | 2.915E-16 | 3.607E-37 | 0.000E+00 |
| 0Sb-125<br>0.000E+00    | Sb-125    | 7.720E-01 | 3.485E-07 | 2.714E-07 | 7.770E-08 | 1.732E-08 | 1.918E-10 | 4.740E-18 | 8.745E-40 |
| 0Sb-125<br>0.000E+00    | Sb-125    | 2.280E-01 | 1.029E-07 | 8.015E-08 | 2.295E-08 | 5.116E-09 | 5.666E-11 | 1.400E-18 | 2.569E-40 |
| Sb-125<br>0.000E+00     | Te-125m   | 2.280E-01 | 3.092E-27 | 3.686E-27 | 1.064E-27 | 2.380E-28 | 2.658E-30 | 6.789E-38 | 0.000E+00 |
| Sb-125<br>0.000E+00     | %DSR(j)   |           | 1.029E-07 | 8.015E-08 | 2.295E-08 | 5.116E-09 | 5.666E-11 | 1.400E-18 | 2.569E-40 |
| 0Sm-151<br>0.000E+00    | Sm-151    | 1.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| 0Sn-121m+D<br>4.945E-22 | Sn-121m+D | 1.000E+00 | 1.061E-16 | 1.048E-16 | 9.853E-17 | 9.153E-17 | 7.339E-17 | 3.107E-17 | 2.668E-18 |

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T' Limit = 30 days

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

Dose/Source Ratios Summed Over All Pathways  
Parent and Progeny Principal Radionuclide Contributions Indicated

| 0 Parent<br>(i) | Product<br>(j) | Thread<br>Fraction | DSR(j,t) (mrem/yr)/(pCi/g) |            |            |            |            |            |            |            |
|-----------------|----------------|--------------------|----------------------------|------------|------------|------------|------------|------------|------------|------------|
| 1.000E+03       |                |                    | 0.000E+00                  | 1.000E+00  | 6.000E+00  | 1.200E+01  | 3.000E+01  | 1.000E+02  | 3.000E+02  |            |
| ffffffffff      | ffffffffff     | ffffffffff         | ffffffffff                 | ffffffffff | ffffffffff | ffffffffff | ffffffffff | ffffffffff | ffffffffff | ffffffffff |
| Sn-126+D        | Sn-126+D       | 1.000E+00          | 3.586E-06                  | 3.586E-06  | 3.589E-06  | 3.593E-06  | 3.603E-06  | 3.643E-06  | 3.761E-06  |            |
| 4.205E-06       |                |                    |                            |            |            |            |            |            |            |            |
| 0Sr-90+D        | Sr-90+D        | 1.000E+00          | 2.944E-10                  | 2.875E-10  | 2.555E-10  | 2.218E-10  | 1.450E-10  | 2.781E-11  | 2.480E-13  |            |
| 1.663E-20       |                |                    |                            |            |            |            |            |            |            |            |
| 0Th-228+D       | Th-228+D       | 1.000E+00          | 1.916E-04                  | 1.334E-04  | 2.183E-05  | 2.486E-06  | 3.672E-09  | 3.572E-20  | 0.000E+00  |            |
| 0.000E+00       |                |                    |                            |            |            |            |            |            |            |            |
| 0Th-230         | Th-230         | 1.000E+00          | 9.143E-16                  | 9.145E-16  | 9.160E-16  | 9.177E-16  | 9.230E-16  | 9.438E-16  | 1.006E-15  |            |
| 1.256E-15       |                |                    |                            |            |            |            |            |            |            |            |
| Th-230          | Ra-226+D       | 1.000E+00          | 1.097E-08                  | 3.292E-08  | 1.426E-07  | 2.741E-07  | 6.677E-07  | 2.186E-06  | 6.425E-06  |            |
| 2.022E-05       |                |                    |                            |            |            |            |            |            |            |            |
| Th-230          | Pb-210+D       | 1.000E+00          | 1.320E-17                  | 8.289E-17  | 1.407E-15  | 4.894E-15  | 2.468E-14  | 1.600E-13  | 6.183E-13  |            |
| 2.265E-12       |                |                    |                            |            |            |            |            |            |            |            |
| Th-230          | Po-210         | 1.000E+00          | 2.992E-17                  | 2.871E-16  | 7.623E-15  | 2.872E-14  | 1.522E-13  | 1.005E-12  | 3.847E-12  |            |
| 1.339E-11       |                |                    |                            |            |            |            |            |            |            |            |
| Th-230          | %DSR(j)        |                    | 1.097E-08                  | 3.292E-08  | 1.426E-07  | 2.741E-07  | 6.677E-07  | 2.186E-06  | 6.425E-06  |            |
| 2.022E-05       |                |                    |                            |            |            |            |            |            |            |            |
| 0Th-232         | Th-232         | 1.000E+00          | 1.968E-17                  | 1.968E-17  | 1.972E-17  | 1.976E-17  | 1.989E-17  | 2.041E-17  | 2.194E-17  |            |
| 2.830E-17       |                |                    |                            |            |            |            |            |            |            |            |
| Th-232          | Ra-228+D       | 1.000E+00          | 5.784E-07                  | 1.652E-06  | 5.451E-06  | 7.822E-06  | 9.823E-06  | 1.018E-05  | 1.048E-05  |            |
| 1.160E-05       |                |                    |                            |            |            |            |            |            |            |            |
| Th-232          | Th-228+D       | 1.000E+00          | 1.638E-06                  | 9.139E-06  | 8.261E-05  | 1.535E-04  | 2.198E-04  | 2.303E-04  | 2.354E-04  |            |
| 2.543E-04       |                |                    |                            |            |            |            |            |            |            |            |
| Th-232          | %DSR(j)        |                    | 2.217E-06                  | 1.079E-05  | 8.806E-05  | 1.613E-04  | 2.296E-04  | 2.404E-04  | 2.459E-04  |            |
| 2.659E-04       |                |                    |                            |            |            |            |            |            |            |            |
| 0U-233          | U-233          | 1.000E+00          | 9.019E-13                  | 9.021E-13  | 9.032E-13  | 9.045E-13  | 9.084E-13  | 9.236E-13  | 9.685E-13  |            |
| 1.143E-12       |                |                    |                            |            |            |            |            |            |            |            |
| U-233           | Th-229+D       | 1.000E+00          | 4.576E-11                  | 1.373E-10  | 5.951E-10  | 1.145E-09  | 2.799E-09  | 9.283E-09  | 2.828E-08  |            |
| 1.005E-07       |                |                    |                            |            |            |            |            |            |            |            |

|                       |          |           |           |           |           |           |           |           |           |
|-----------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| U-233<br>1.005E-07    | %DSR(j)  |           | 4.666E-11 | 1.382E-10 | 5.960E-10 | 1.146E-09 | 2.800E-09 | 9.284E-09 | 2.828E-08 |
| 0U-234<br>1.335E-16   | U-234    | 1.000E+00 | 9.551E-17 | 9.555E-17 | 9.571E-17 | 9.590E-17 | 9.648E-17 | 9.877E-17 | 1.056E-16 |
| U-234<br>1.134E-17    | Th-230   | 1.000E+00 | 4.115E-21 | 1.235E-20 | 5.360E-20 | 1.033E-19 | 2.534E-19 | 8.540E-19 | 2.722E-18 |
| U-234<br>9.765E-08    | Ra-226+D | 1.000E+00 | 3.712E-14 | 2.350E-13 | 4.188E-12 | 1.545E-11 | 9.188E-11 | 9.962E-10 | 8.878E-09 |
| U-234<br>1.057E-14    | Pb-210+D | 1.000E+00 | 3.316E-23 | 4.149E-22 | 2.808E-20 | 1.898E-19 | 2.429E-18 | 5.825E-17 | 7.720E-16 |
| U-234<br>6.247E-14    | Po-210   | 1.000E+00 | 6.422E-23 | 1.233E-21 | 1.415E-19 | 1.068E-18 | 1.470E-17 | 3.637E-16 | 4.794E-15 |
| U-234<br>9.765E-08    | %DSR(j)  |           | 3.722E-14 | 2.351E-13 | 4.188E-12 | 1.545E-11 | 9.188E-11 | 9.962E-10 | 8.878E-09 |
| 0U-235+D<br>7.144E-10 | U-235+D  | 1.000E+00 | 5.620E-10 | 5.622E-10 | 5.628E-10 | 5.636E-10 | 5.661E-10 | 5.757E-10 | 6.040E-10 |
| U-235+D<br>8.260E-11  | Pa-231   | 1.000E+00 | 3.409E-14 | 1.023E-13 | 4.436E-13 | 8.541E-13 | 2.091E-12 | 6.983E-12 | 2.170E-11 |
| U-235+D<br>2.714E-09  | Ac-227+D | 1.000E+00 | 1.409E-14 | 8.847E-14 | 1.500E-12 | 5.215E-12 | 2.625E-11 | 1.701E-10 | 6.721E-10 |
| U-235<br>3.511E-09    | %DSR(j)  |           | 5.621E-10 | 5.624E-10 | 5.648E-10 | 5.697E-10 | 5.944E-10 | 7.527E-10 | 1.298E-09 |
| 0U-236<br>3.378E-17   | U-236    | 1.000E+00 | 2.393E-17 | 2.394E-17 | 2.398E-17 | 2.403E-17 | 2.418E-17 | 2.477E-17 | 2.653E-17 |
| U-236<br>1.396E-24    | Th-232   | 1.000E+00 | 4.854E-28 | 1.457E-27 | 6.324E-27 | 1.219E-26 | 2.993E-26 | 1.012E-25 | 3.253E-25 |
| U-236<br>5.675E-13    | Ra-228+D | 1.000E+00 | 1.085E-17 | 6.649E-17 | 9.898E-16 | 2.998E-15 | 1.115E-14 | 4.631E-14 | 1.511E-13 |
| U-236<br>1.241E-11    | Th-228+D | 1.000E+00 | 2.307E-17 | 2.644E-16 | 1.121E-14 | 4.711E-14 | 2.227E-13 | 1.016E-12 | 3.361E-12 |
| U-236<br>1.297E-11    | %DSR(j)  |           | 5.785E-17 | 3.548E-16 | 1.222E-14 | 5.013E-14 | 2.339E-13 | 1.062E-12 | 3.512E-12 |
| 0U-238                | U-238    | 5.400E-05 | 3.254E-36 | 3.257E-36 | 3.269E-36 | 3.284E-36 | 3.328E-36 | 3.508E-36 | 4.076E-36 |

6.890E-36

1RESRAD-OFFSITE, Version 2.6

T' Limit = 30 days

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

## Dose/Source Ratios Summed Over All Pathways

## Parent and Progeny Principal Radionuclide Contributions Indicated

| 0          | Parent<br>(i) | Product<br>(j) | Thread<br>Fraction | DSR(j,t) (mrem/yr)/(pCi/g) |            |            |            |            |            |            |
|------------|---------------|----------------|--------------------|----------------------------|------------|------------|------------|------------|------------|------------|
|            |               |                |                    | 0.000E+00                  | 1.000E+00  | 6.000E+00  | 1.200E+01  | 3.000E+01  | 1.000E+02  | 3.000E+02  |
| 1.000E+03  | U-238+D       | U-238+D        | 9.999E-01          | 8.126E-08                  | 8.127E-08  | 8.133E-08  | 8.141E-08  | 8.164E-08  | 8.253E-08  | 8.514E-08  |
| 9.495E-08  | U-238+D       | U-234          | 9.999E-01          | 1.354E-22                  | 4.063E-22  | 1.764E-21  | 3.398E-21  | 8.342E-21  | 2.814E-20  | 9.000E-20  |
| 3.792E-19  | U-238+D       | Th-230         | 9.999E-01          | 4.383E-27                  | 2.776E-26  | 4.955E-25  | 1.832E-24  | 1.096E-23  | 1.217E-22  | 1.160E-21  |
| 1.611E-20  | U-238+D       | Ra-226+D       | 9.999E-01          | 2.768E-20                  | 3.688E-19  | 2.590E-17  | 1.829E-16  | 2.652E-15  | 9.496E-14  | 2.549E-12  |
| 9.564E-11  | U-238+D       | Pb-210+D       | 9.999E-01          | 0.000E+00                  | 5.296E-28  | 1.321E-25  | 1.718E-24  | 5.487E-23  | 4.655E-21  | 2.026E-19  |
| 1.003E-17  | U-238+D       | Po-210         | 9.999E-01          | 1.208E-27                  | 5.204E-27  | 6.275E-25  | 9.295E-24  | 3.263E-22  | 2.890E-20  | 1.256E-18  |
| 5.924E-17  | U-238         | %DSR(j)        |                    | 8.126E-08                  | 8.127E-08  | 8.133E-08  | 8.141E-08  | 8.164E-08  | 8.253E-08  | 8.514E-08  |
| 9.504E-08  |               |                |                    |                            |            |            |            |            |            |            |
| 0000000000 | 0000000000    | 0000000000     | 0000000000         | 0000000000                 | 0000000000 | 0000000000 | 0000000000 | 0000000000 | 0000000000 | 0000000000 |
| 0000000000 |               |                |                    |                            |            |            |            |            |            |            |

The DSR includes contributions from associated (half-life  $\hat{=}$  30 days) daughters.

1RESRAD-OFFSITE, Version 2.6

T' Limit = 30 days

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

## Single Radionuclide Soil Guidelines G(i,t) in pCi/g

Basic Radiation Dose Limit = 1.500E+01 mrem/yr

| 0Nuclide | (i)    | t= | 0.000E+00  | 1.000E+00  | 6.000E+00  | 1.200E+01  | 3.000E+01  | 1.000E+02  | 3.000E+02  | 1.000E+03  |
|----------|--------|----|------------|------------|------------|------------|------------|------------|------------|------------|
|          | ffffff |    | ffffff     | ffffff     | ffffff     | ffffff     | ffffff     | ffffff     | ffffff     | ffffff     |
| Ac-227   |        |    | 1.356E+08  | 1.400E+08  | 1.640E+08  | 1.983E+08  | 3.506E+08  | 3.216E+09  | 1.809E+12  | *7.232E+13 |
| Al-26    |        |    | 1.667E+05  | 1.667E+05  | 1.666E+05  | 1.665E+05  | 1.661E+05  | 1.646E+05  | 1.604E+05  | 1.464E+05  |
| Am-241   |        |    | *3.431E+12 | *3.431E+12 | *3.431E+12 | *3.431E+12 | *3.431E+12 | *3.431E+12 | *3.431E+12 | *3.431E+12 |
| Cf-249   |        |    | 1.196E+08  | 1.198E+08  | 1.209E+08  | 1.222E+08  | 1.262E+08  | 1.431E+08  | 2.048E+08  | 7.178E+08  |
| Cf-251   |        |    | 5.659E+10  | 5.662E+10  | 5.676E+10  | 5.694E+10  | 5.745E+10  | 5.950E+10  | 6.575E+10  | 9.266E+10  |
| Cf-252   |        |    | *5.376E+14 | *5.376E+14 | *5.376E+14 | *5.376E+14 | *5.376E+14 | *5.376E+14 | *5.376E+14 | *5.376E+14 |
| Cl-36    |        |    | *3.302E+10 | *3.302E+10 | *3.302E+10 | *3.302E+10 | *3.302E+10 | *3.302E+10 | *3.302E+10 | *3.302E+10 |
| Co-60    |        |    | 2.874E+05  | 3.278E+05  | 6.321E+05  | 1.390E+06  | 1.479E+07  | 1.458E+11  | *1.132E+15 | *1.132E+15 |
| Cs-134   |        |    | 4.411E+06  | 6.172E+06  | 3.309E+07  | 2.482E+08  | 1.049E+11  | *1.295E+15 | *1.295E+15 | *1.295E+15 |
| Cs-137   |        |    | 1.394E+07  | 1.427E+07  | 1.600E+07  | 1.836E+07  | 2.774E+07  | 1.382E+08  | 1.358E+10  | *8.704E+13 |
| Eu-154   |        |    | 1.210E+06  | 1.309E+06  | 1.939E+06  | 3.108E+06  | 1.280E+07  | 3.142E+09  | *2.639E+14 | *2.639E+14 |
| Eu-155   |        |    | 2.044E+14  | 2.349E+14  | *4.652E+14 | *4.652E+14 | *4.652E+14 | *4.652E+14 | *4.652E+14 | *4.652E+14 |
| H-3      |        |    | *9.597E+15 | *9.597E+15 | *9.597E+15 | *9.597E+15 | *9.597E+15 | *9.597E+15 | *9.597E+15 | *9.597E+15 |
| Ho-166m  |        |    | 3.488E+06  | 3.489E+06  | 3.497E+06  | 3.505E+06  | 3.532E+06  | 3.636E+06  | 3.951E+06  | 5.283E+06  |
| Na-22    |        |    | 1.278E+06  | 1.668E+06  | 6.311E+06  | 3.116E+07  | 3.754E+09  | *6.247E+15 | *6.247E+15 | *6.247E+15 |
| Np-237   |        |    | *7.047E+08 | *7.047E+08 | *7.047E+08 | *7.047E+08 | *7.047E+08 | *7.047E+08 | *7.047E+08 | *7.047E+08 |
| Pb-210   |        |    | 6.803E+11  | 4.295E+11  | 4.652E+11  | 5.601E+11  | 9.770E+11  | 8.507E+12  | *7.634E+13 | *7.634E+13 |
| Pm-147   |        |    | *9.275E+14 | *9.275E+14 | *9.275E+14 | *9.275E+14 | *9.275E+14 | *9.275E+14 | *9.275E+14 | *9.275E+14 |
| Pu-238   |        |    | *1.712E+13 | *1.712E+13 | *1.712E+13 | *1.712E+13 | *1.712E+13 | *1.712E+13 | 9.745E+12  | 5.422E+11  |
| Pu-239   |        |    | *6.214E+10 | *6.214E+10 | *6.214E+10 | *6.214E+10 | *6.214E+10 | *6.214E+10 | *6.214E+10 | *6.214E+10 |
| Pu-240   |        |    | *2.278E+11 | *2.278E+11 | *2.278E+11 | *2.278E+11 | *2.278E+11 | *2.278E+11 | *2.278E+11 | *2.278E+11 |
| Pu-241   |        |    | *1.030E+14 | *1.030E+14 | *1.030E+14 | *1.030E+14 | *1.030E+14 | *1.030E+14 | *1.030E+14 | *1.030E+14 |
| Pu-242   |        |    | *3.925E+09 | *3.925E+09 | *3.925E+09 | *3.925E+09 | *3.925E+09 | *3.925E+09 | *3.925E+09 | *3.925E+09 |
| Ra-226   |        |    | 2.961E+05  | 2.962E+05  | 2.966E+05  | 2.972E+05  | 2.988E+05  | 3.052E+05  | 3.242E+05  | 4.005E+05  |
| Ra-228   |        |    | 3.410E+05  | 1.602E+05  | 1.172E+05  | 2.018E+05  | 1.680E+06  | 7.701E+09  | *2.726E+14 | *2.726E+14 |
| Ru-106   |        |    | 5.742E+07  | 1.141E+08  | 3.539E+09  | 2.183E+11  | *3.348E+15 | *3.348E+15 | *3.348E+15 | *3.348E+15 |

|          |            |            |            |            |            |            |            |            |
|----------|------------|------------|------------|------------|------------|------------|------------|------------|
| Sb-125   | 3.323E+07  | 4.267E+07  | 1.490E+08  | 6.685E+08  | 6.036E+10  | *1.033E+15 | *1.033E+15 | *1.033E+15 |
| Sm-151   | *2.632E+13 | *2.632E+13 | *2.632E+13 | *2.632E+13 | *2.632E+13 | *2.632E+13 | *2.632E+13 | *2.632E+13 |
| Sn-121m  | *5.376E+13 | *5.376E+13 | *5.376E+13 | *5.376E+13 | *5.376E+13 | *5.376E+13 | *5.376E+13 | *5.376E+13 |
| Sn-126   | 4.183E+06  | 4.183E+06  | 4.179E+06  | 4.175E+06  | 4.163E+06  | 4.117E+06  | 3.988E+06  | 3.567E+06  |
| Sr-90    | 5.095E+10  | 5.217E+10  | 5.870E+10  | 6.763E+10  | 1.034E+11  | 5.395E+11  | 6.047E+13  | *1.365E+14 |
| Th-228   | 7.830E+04  | 1.125E+05  | 6.872E+05  | 6.033E+06  | 4.085E+09  | *8.195E+14 | *8.195E+14 | *8.195E+14 |
| Th-230   | 1.367E+09  | 4.556E+08  | 1.052E+08  | 5.473E+07  | 2.247E+07  | 6.861E+06  | 2.335E+06  | 7.418E+05  |
| Th-232   | *1.097E+05 | *1.097E+05 | *1.097E+05 | 9.301E+04  | 6.532E+04  | 6.239E+04  | 6.101E+04  | 5.641E+04  |
| U-233    | *9.678E+09 | *9.678E+09 | *9.678E+09 | *9.678E+09 | 5.358E+09  | 1.616E+09  | 5.304E+08  | 1.492E+08  |
| U-234    | *6.247E+09 | *6.247E+09 | *6.247E+09 | *6.247E+09 | *6.247E+09 | *6.247E+09 | 1.689E+09  | 1.536E+08  |
| U-235    | *2.161E+06 | *2.161E+06 | *2.161E+06 | *2.161E+06 | *2.161E+06 | *2.161E+06 | *2.161E+06 | *2.161E+06 |
| U-236    | *6.468E+07 | *6.468E+07 | *6.468E+07 | *6.468E+07 | *6.468E+07 | *6.468E+07 | *6.468E+07 | *6.468E+07 |
| U-238    | *3.361E+05 | *3.361E+05 | *3.361E+05 | *3.361E+05 | *3.361E+05 | *3.361E+05 | *3.361E+05 | *3.361E+05 |
| 00000000 | 0000000000 | 0000000000 | 0000000000 | 0000000000 | 0000000000 | 0000000000 | 0000000000 | 0000000000 |

\*At specific activity limit

1RESRAD-OFFSITE, Version 2.6

T' Limit = 30 days

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

Summed Dose/Source Ratios DSR(i,t) in (mrem/yr)/(pCi/g)

and Single Radionuclide Soil Guidelines G(i,t) in pCi/g

at tmin = time of minimum single radionuclide soil guideline

and at tmax = time of maximum total dose = 1030 years

| 0Nuclide   | Initial    | tmin       | DSR(i,tmin) | G(i,tmin)  | DSR(i,tmax) | G(i,tmax)  |
|------------|------------|------------|-------------|------------|-------------|------------|
| (i)        | (pCi/g)    | (years)    |             | (pCi/g)    |             | (pCi/g)    |
| ffffffffff | ffffffffff | ffffffffff | ffffffffff  | ffffffffff | ffffffffff  | ffffffffff |
| Ac-227     | 2.340E+00  | 0          | 1.106E-07   | 1.356E+08  | 7.727E-22   | *7.232E+13 |
| Al-26      | 7.640E+02  | 1030       | 1.029E-04   | 1.458E+05  | 1.029E-04   | 1.458E+05  |
| Am-241     | 1.410E+03  | 1030       | 2.633E-12   | 5.696E+12  | 2.633E-12   | *3.431E+12 |
| Cf-249     | 3.240E-03  | 0          | 1.254E-07   | *4.094E+12 | 3.964E-08   | 3.784E+08  |
| Cf-251     | 1.340E-02  | 0          | 2.650E-10   | *1.586E+12 | 1.596E-10   | 9.399E+10  |
| Cf-252     | 1.510E-07  | 0          | 9.562E-17   | *5.376E+14 | 8.992E-17   | *5.376E+14 |

|         |           |      |           |            |           |            |
|---------|-----------|------|-----------|------------|-----------|------------|
| Cl-36   | 2.790E-01 | 1030 | 3.847E-12 | *3.302E+10 | 3.847E-12 | *3.302E+10 |
| Co-60   | 4.860E+00 | 0    | 5.219E-05 | 2.874E+05  | 0.000E+00 | *1.132E+15 |
| Cs-134  | 2.620E-06 | 0    | 3.400E-06 | *1.295E+15 | 0.000E+00 | *1.295E+15 |
| Cs-137  | 3.050E+03 | 0    | 1.076E-06 | 1.394E+07  | 5.964E-17 | *8.704E+13 |
| Eu-154  | 9.920E-03 | 0    | 1.240E-05 | 1.210E+06  | 8.730E-41 | *2.639E+14 |
| Eu-155  | 8.720E-03 | 0    | 7.340E-14 | *4.652E+14 | 0.000E+00 | *4.652E+14 |
| H-3     | 3.780E+04 | 0    | 0.000E+00 | *9.597E+15 | 0.000E+00 | *9.597E+15 |
| Ho-166m | 5.020E-01 | 0    | 4.300E-06 | 3.488E+06  | 2.805E-06 | 5.348E+06  |
| Na-22   | 1.120E-03 | 0    | 1.174E-05 | 1.278E+06  | 0.000E+00 | *6.247E+15 |
| Np-237  | 1.620E-03 | 1030 | 1.625E-08 | *7.047E+08 | 1.625E-08 | *7.047E+08 |
| Pb-210  | 2.850E+00 | 2.01 | 3.605E-11 | 4.161E+11  | 5.841E-25 | *7.634E+13 |
| Pm-147  | 1.370E-08 | 0    | 1.372E-18 | *9.275E+14 | 0.000E+00 | *9.275E+14 |
| Pu-238  | 1.470E+04 | 1030 | 2.952E-11 | 5.081E+11  | 2.952E-11 | 5.081E+11  |
| Pu-239  | 9.250E+03 | 1030 | 3.737E-13 | 4.014E+13  | 3.737E-13 | *6.214E+10 |
| Pu-240  | 2.380E+03 | 1030 | 1.958E-16 | 7.661E+16  | 1.958E-16 | *2.278E+11 |
| Pu-241  | 3.820E+03 | 1030 | 8.699E-14 | 1.724E+14  | 1.740E-13 | 8.621E+13  |
| Pu-242  | 2.520E-01 | 1030 | 1.524E-14 | *3.925E+09 | 1.524E-14 | *3.925E+09 |
| Ra-226  | 3.850E+00 | 0    | 5.066E-05 | 2.961E+05  | 3.712E-05 | 4.041E+05  |
| Ra-228  | 4.190E+00 | 4.02 | 1.371E-04 | 1.094E+05  | 0.000E+00 | *2.726E+14 |
| Ru-106  | 7.770E-09 | 0    | 2.612E-07 | *3.348E+15 | 0.000E+00 | *3.348E+15 |
| Sb-125  | 5.400E-04 | 0    | 4.514E-07 | 3.323E+07  | 0.000E+00 | *1.033E+15 |
| Sm-151  | 2.110E-02 | 0    | 0.000E+00 | *2.632E+13 | 0.000E+00 | *2.632E+13 |
| Sn-121m | 5.020E-01 | 0    | 1.061E-16 | *5.376E+13 | 3.442E-22 | *5.376E+13 |
| Sn-126  | 1.220E-01 | 1030 | 4.225E-06 | 3.551E+06  | 4.225E-06 | 3.551E+06  |
| Sr-90   | 4.300E+02 | 0    | 2.944E-10 | 5.095E+10  | 8.290E-21 | *1.365E+14 |
| Th-228  | 8.930E-03 | 0    | 1.916E-04 | 7.830E+04  | 0.000E+00 | *8.195E+14 |
| Th-230  | 8.370E+01 | 1030 | 2.077E-05 | 7.221E+05  | 2.077E-05 | 7.221E+05  |
| Th-232  | 9.880E-03 | 1030 | 2.668E-04 | *1.097E+05 | 2.668E-04 | 5.623E+04  |
| U-233   | 2.790E+00 | 1030 | 1.038E-07 | 1.445E+08  | 1.038E-07 | 1.445E+08  |
| U-234   | 4.260E+01 | 1030 | 1.035E-07 | 1.450E+08  | 1.035E-07 | 1.450E+08  |
| U-235   | 2.180E+02 | 1030 | 3.615E-09 | 4.150E+09  | 3.615E-09 | *2.161E+06 |
| U-236   | 4.070E-01 | 1030 | 1.340E-11 | *6.468E+07 | 1.340E-11 | *6.468E+07 |
| U-238   | 5.350E+01 | 1030 | 9.549E-08 | 1.571E+08  | 9.549E-08 | *3.361E+05 |



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\*At specific activity limit

1RESRAD-OFFSITE, Version 2.6

T' Limit = 30 days

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

# Individual Nuclide Dose Summed Over All Pathways

Parent Nuclide and Thread Fraction Indicated

| 0Nuclide | Parent    | THF(i)    | DOSE(j,t), mrem/yr |           |           |           |           |           |           |           |           |
|----------|-----------|-----------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| (j)      | (i)       |           | t=                 | 0.000E+00 | 1.000E+00 | 6.000E+00 | 1.200E+01 | 3.000E+01 | 1.000E+02 | 3.000E+02 | 1.000E+03 |
| Ac-227   | Ac-227    | 1.000E+00 | 2.588E-07          | 2.507E-07 | 2.140E-07 | 1.770E-07 | 1.001E-07 | 1.091E-08 | 1.941E-11 |           |           |
| Ac-227   | Cf-251    | 1.000E+00 | 0.000E+00          | 7.236E-34 | 1.850E-34 | 7.532E-34 | 0.000E+00 | 1.067E-31 | 4.978E-29 |           |           |
| Ac-227   | Pu-239    | 1.000E+00 | 3.582E-20          | 4.482E-19 | 3.031E-17 | 2.047E-16 | 2.615E-15 | 6.250E-14 | 8.336E-13 |           |           |
| Ac-227   | U-235     | 1.000E+00 | 3.073E-12          | 1.929E-11 | 3.270E-10 | 1.137E-09 | 5.722E-09 | 3.708E-08 | 1.465E-07 |           |           |
| Ac-227   | %DOSE(j): |           | 2.588E-07          | 2.508E-07 | 2.144E-07 | 1.781E-07 | 1.058E-07 | 4.799E-08 | 1.465E-07 |           |           |
| Al-26    | Al-26     | 1.000E+00 | 6.873E-02          | 6.874E-02 | 6.879E-02 | 6.884E-02 | 6.900E-02 | 6.963E-02 | 7.147E-02 |           |           |
| Am-241   | Am-241    | 1.000E+00 | 9.851E-19          | 9.841E-19 | 9.789E-19 | 9.727E-19 | 9.544E-19 | 8.863E-19 | 7.174E-19 |           |           |
| Am-241   | Cf-249    | 1.000E+00 | 7.377E-34          | 9.195E-33 | 6.087E-31 | 4.010E-30 | 4.787E-29 | 9.544E-28 | 9.795E-27 |           |           |
| Am-241   | Pu-241    | 1.000E+00 | 2.103E-21          | 6.182E-21 | 2.384E-20 | 4.005E-20 | 6.755E-20 | 8.199E-20 | 6.699E-20 |           |           |

|           |                  |           |           |           |           |           |           |           |
|-----------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Am-241    | %DOSE(j):        | 9.872E-19 | 9.902E-19 | 1.003E-18 | 1.013E-18 | 1.022E-18 | 9.683E-19 | 7.844E-19 |
| 3.743E-19 |                  |           |           |           |           |           |           |           |
| 0Np-237   | Am-241 1.000E+00 | 2.958E-12 | 8.870E-12 | 3.832E-11 | 7.343E-11 | 1.773E-10 | 5.608E-10 | 1.501E-09 |
| 3.623E-09 |                  |           |           |           |           |           |           |           |
| Np-237    | Cf-249 1.000E+00 | 1.002E-27 | 2.392E-26 | 6.084E-24 | 7.748E-23 | 2.326E-21 | 1.654E-19 | 5.442E-18 |
| 1.505E-16 |                  |           |           |           |           |           |           |           |
| Np-237    | Cf-249 2.450E-05 | 6.768E-29 | 8.436E-28 | 5.586E-26 | 3.682E-25 | 4.403E-24 | 8.865E-23 | 9.444E-22 |
| 8.961E-21 |                  |           |           |           |           |           |           |           |
| Np-237    | Np-237 1.000E+00 | 2.100E-11 | 2.100E-11 | 2.102E-11 | 2.105E-11 | 2.113E-11 | 2.143E-11 | 2.233E-11 |
| 2.578E-11 |                  |           |           |           |           |           |           |           |
| Np-237    | Pu-241 1.000E+00 | 4.766E-15 | 2.977E-14 | 4.910E-13 | 1.654E-12 | 7.662E-12 | 4.074E-11 | 1.280E-10 |
| 3.242E-10 |                  |           |           |           |           |           |           |           |
| Np-237    | Pu-241 2.450E-05 | 1.930E-16 | 5.676E-16 | 2.195E-15 | 3.699E-15 | 6.321E-15 | 8.266E-15 | 8.681E-15 |
| 1.002E-14 |                  |           |           |           |           |           |           |           |
| Np-237    | %DOSE(j):        | 2.396E-11 | 2.990E-11 | 5.984E-11 | 9.614E-11 | 2.061E-10 | 6.230E-10 | 1.652E-09 |
| 3.973E-09 |                  |           |           |           |           |           |           |           |
| 0U-233    | Am-241 1.000E+00 | 3.383E-22 | 2.141E-21 | 3.810E-20 | 1.403E-19 | 8.305E-19 | 8.838E-18 | 7.492E-17 |
| 7.175E-16 |                  |           |           |           |           |           |           |           |
| U-233     | Cf-249 1.000E+00 | 0.000E+00 | 0.000E+00 | 2.456E-33 | 6.045E-32 | 4.530E-30 | 1.142E-27 | 1.248E-25 |
| 1.371E-23 |                  |           |           |           |           |           |           |           |
| U-233     | Cf-249 2.450E-05 | 4.156E-39 | 1.106E-37 | 2.835E-35 | 3.619E-34 | 1.093E-32 | 7.996E-31 | 2.863E-29 |
| 1.060E-27 |                  |           |           |           |           |           |           |           |
| U-233     | Np-237 1.000E+00 | 3.195E-21 | 9.587E-21 | 4.159E-20 | 8.010E-20 | 1.963E-19 | 6.577E-19 | 2.063E-18 |
| 8.124E-18 |                  |           |           |           |           |           |           |           |
| U-233     | Pu-241 1.000E+00 | 4.050E-25 | 5.049E-24 | 3.346E-22 | 2.207E-21 | 2.647E-20 | 5.393E-19 | 5.945E-18 |
| 6.265E-17 |                  |           |           |           |           |           |           |           |
| U-233     | Pu-241 2.450E-05 | 2.217E-26 | 1.385E-25 | 2.291E-24 | 7.746E-24 | 3.631E-23 | 2.033E-22 | 7.467E-22 |
| 3.093E-21 |                  |           |           |           |           |           |           |           |
| U-233     | U-233 1.000E+00  | 2.516E-12 | 2.517E-12 | 2.520E-12 | 2.524E-12 | 2.534E-12 | 2.577E-12 | 2.702E-12 |
| 3.190E-12 |                  |           |           |           |           |           |           |           |
| U-233     | %DOSE(j):        | 2.516E-12 | 2.517E-12 | 2.520E-12 | 2.524E-12 | 2.534E-12 | 2.577E-12 | 2.702E-12 |
| 3.191E-12 |                  |           |           |           |           |           |           |           |
| 0Th-229   | Am-241 1.000E+00 | 9.549E-21 | 1.203E-19 | 8.433E-18 | 5.946E-17 | 8.573E-16 | 3.007E-14 | 7.622E-13 |

2.398E-11  
Th-229 Cf-249 1.000E+00 0.000E+00 0.000E+00 3.706E-30 3.152E-29 2.399E-27 2.093E-24 7.200E-22  
2.706E-19  
Th-229 Cf-249 2.450E-05 0.000E+00 0.000E+00 3.381E-33 9.428E-32 7.057E-30 1.801E-27 2.043E-25  
2.547E-23  
Th-229 Np-237 1.000E+00 1.218E-19 7.711E-19 1.375E-17 5.077E-17 3.026E-16 3.310E-15 3.025E-14  
3.621E-13  
Th-229 Pu-241 1.000E+00 8.245E-24 2.207E-22 5.655E-20 7.216E-19 2.180E-17 1.592E-15 5.675E-14  
2.049E-12  
Th-229 Pu-241 2.450E-05 6.279E-25 7.830E-24 5.196E-22 3.434E-21 4.141E-20 8.643E-19 1.025E-17  
1.351E-16  
Th-229 U-233 1.000E+00 1.277E-10 3.830E-10 1.660E-09 3.195E-09 7.809E-09 2.590E-08 7.889E-08  
2.805E-07  
Th-229 %DOSE(j): 1.277E-10 3.830E-10 1.660E-09 3.195E-09 7.809E-09 2.590E-08 7.890E-08  
2.805E-07  
0Cf-249 Cf-249 5.200E-09 2.113E-18 2.109E-18 2.090E-18 2.068E-18 2.002E-18 1.766E-18 1.234E-18  
3.521E-19  
Cf-249 Cf-249 1.000E+00 4.063E-10 4.055E-10 4.019E-10 3.976E-10 3.850E-10 3.396E-10 2.373E-10  
6.770E-11  
Cf-249 %DOSE(j): 4.063E-10 4.055E-10 4.019E-10 3.976E-10 3.850E-10 3.396E-10 2.373E-10  
6.770E-11

1RESRAD-OFFSITE, Version 2.6 T Limit = 30 days 09/19/2012 14:54 Page 93  
Parent Dose Report  
Title : Industrial No Cap Base  
File : INDUSTRIAL NO CAP BASE.ROF

Individual Nuclide Dose Summed Over All Pathways  
Parent Nuclide and Thread Fraction Indicated  
DOSE(j,t), mrem/yr  
0Nuclide Parent THF(i)  
(j) (i) t= 0.000E+00 1.000E+00 6.000E+00 1.200E+01 3.000E+01 1.000E+02 3.000E+02 1.000E  
+03  
ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff  
ffffffff

|           |           |           |           |           |           |           |           |           |           |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Cm-245    | Cf-249    | 1.000E+00 | 7.881E-19 | 2.363E-18 | 1.020E-17 | 1.953E-17 | 4.703E-17 | 1.473E-16 | 3.845E-16 |
| 8.696E-16 |           |           |           |           |           |           |           |           |           |
| Cm-245    | %DOSE(j): |           | 7.881E-19 | 2.363E-18 | 1.020E-17 | 1.953E-17 | 4.703E-17 | 1.473E-16 | 3.845E-16 |
| 8.696E-16 |           |           |           |           |           |           |           |           |           |
| 0Pu-241   | Cf-249    | 1.000E+00 | 5.237E-26 | 3.271E-25 | 5.394E-24 | 1.816E-23 | 8.404E-23 | 4.438E-22 | 1.365E-21 |
| 3.282E-21 |           |           |           |           |           |           |           |           |           |
| Pu-241    | Cf-249    | 2.450E-05 | 4.959E-24 | 3.098E-23 | 5.106E-22 | 1.719E-21 | 7.947E-21 | 4.183E-20 | 1.274E-19 |
| 2.964E-19 |           |           |           |           |           |           |           |           |           |
| Pu-241    | Pu-241    | 1.000E+00 | 8.289E-14 | 7.902E-14 | 6.221E-14 | 4.669E-14 | 1.974E-14 | 6.941E-16 | 4.866E-20 |
| 1.404E-34 |           |           |           |           |           |           |           |           |           |
| Pu-241    | %DOSE(j): |           | 8.289E-14 | 7.902E-14 | 6.221E-14 | 4.669E-14 | 1.974E-14 | 6.941E-16 | 1.774E-19 |
| 2.997E-19 |           |           |           |           |           |           |           |           |           |
| 0Cf-249   | Cf-249    | 2.450E-05 | 9.953E-15 | 9.936E-15 | 9.847E-15 | 9.742E-15 | 9.433E-15 | 8.321E-15 | 5.815E-15 |
| 1.659E-15 |           |           |           |           |           |           |           |           |           |
| 0Cm-245   | Cf-249    | 2.450E-05 | 1.931E-23 | 5.789E-23 | 2.500E-22 | 4.786E-22 | 1.152E-21 | 3.610E-21 | 9.420E-21 |
| 2.131E-20 |           |           |           |           |           |           |           |           |           |
| 0Cf-251   | Cf-251    | 1.000E+00 | 3.552E-12 | 3.550E-12 | 3.540E-12 | 3.529E-12 | 3.496E-12 | 3.370E-12 | 3.034E-12 |
| 2.100E-12 |           |           |           |           |           |           |           |           |           |
| 0Cm-247   | Cf-251    | 1.000E+00 | 4.141E-17 | 1.242E-16 | 5.377E-16 | 1.033E-15 | 2.511E-15 | 8.159E-15 | 2.347E-14 |
| 6.937E-14 |           |           |           |           |           |           |           |           |           |
| 0Am-243   | Cf-251    | 1.000E+00 | 5.313E-24 | 3.363E-23 | 5.992E-22 | 2.210E-21 | 1.314E-20 | 1.422E-19 | 1.261E-18 |
| 1.372E-17 |           |           |           |           |           |           |           |           |           |
| 0Pu-239   | Cf-251    | 1.000E+00 | 2.530E-32 | 3.186E-31 | 2.236E-29 | 1.579E-28 | 2.289E-27 | 8.192E-26 | 2.197E-24 |
| 8.250E-23 |           |           |           |           |           |           |           |           |           |
| Pu-239    | Pu-239    | 1.000E+00 | 2.777E-09 | 2.778E-09 | 2.781E-09 | 2.784E-09 | 2.795E-09 | 2.835E-09 | 2.955E-09 |
| 3.416E-09 |           |           |           |           |           |           |           |           |           |
| Pu-239    | %DOSE(j): |           | 2.777E-09 | 2.778E-09 | 2.781E-09 | 2.784E-09 | 2.795E-09 | 2.835E-09 | 2.955E-09 |
| 3.416E-09 |           |           |           |           |           |           |           |           |           |
| 0U-235    | Cf-251    | 1.000E+00 | 0.000E+00 | 3.799E-36 | 7.195E-35 | 9.090E-34 | 3.223E-32 | 3.813E-30 | 3.088E-28 |
| 3.988E-26 |           |           |           |           |           |           |           |           |           |
| U-235     | Pu-239    | 1.000E+00 | 2.560E-15 | 7.682E-15 | 3.333E-14 | 6.417E-14 | 1.572E-13 | 5.263E-13 | 1.647E-12 |
| 6.422E-12 |           |           |           |           |           |           |           |           |           |
| U-235     | U-235     | 1.000E+00 | 1.225E-07 | 1.226E-07 | 1.227E-07 | 1.229E-07 | 1.234E-07 | 1.255E-07 | 1.317E-07 |

1.557E-07  
 U-235 %DOSE(j): 1.225E-07 1.226E-07 1.227E-07 1.229E-07 1.234E-07 1.255E-07 1.317E-07  
 1.557E-07  
 0Pa-231 Cf-251 1.000E+00 0.000E+00 2.310E-35 2.204E-35 3.764E-35 4.448E-35 9.151E-33 2.242E-30  
 9.545E-28  
 Pa-231 Pu-239 1.000E+00 1.167E-19 7.387E-19 1.318E-17 4.867E-17 2.905E-16 3.195E-15 2.964E-14  
 3.742E-13  
 Pa-231 U-235 1.000E+00 7.431E-12 2.230E-11 9.670E-11 1.862E-10 4.559E-10 1.522E-09 4.730E-09  
 1.801E-08  
 Pa-231 %DOSE(j): 7.431E-12 2.230E-11 9.670E-11 1.862E-10 4.559E-10 1.522E-09 4.730E-09  
 1.801E-08  
 0Cf-252 Cf-252 3.092E-02 4.464E-25 3.434E-25 9.251E-26 1.917E-26 1.704E-28 1.790E-36 0.000E+00 0.000E+00  
 Cf-252 Cf-252 8.005E-02 1.156E-24 8.891E-25 2.395E-25 4.962E-26 4.410E-28 4.634E-36 0.000E+00 0.000E+00  
 Cf-252 %DOSE(j): 1.602E-24 1.232E-24 3.320E-25 6.878E-26 6.114E-28 6.423E-36 0.000E+00 0.000E+00  
 0Cm-248 Cf-252 8.005E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00  
 Cm-248 Cf-252 4.395E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00  
 Cm-248 Cf-252 8.879E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00  
 Cm-248 %DOSE(j): 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00  
 0Cf-252 Cf-252 1.111E-03 1.605E-26 1.234E-26 3.325E-27 6.888E-28 6.123E-30 6.433E-38 0.000E+00 0.000E+00  
 Cf-252 Cf-252 4.395E-08 6.346E-31 4.882E-31 1.315E-31 2.724E-32 2.422E-34 2.543E-42 0.000E+00 0.000E+00  
 Cf-252 %DOSE(j): 1.605E-26 1.234E-26 3.325E-27 6.889E-28 6.123E-30 6.433E-38 0.000E+00 0.000E+00  
 1RESRAD-OFFSITE, Version 2.6 T' Limit = 30 days 09/19/2012 14:54 Page 94  
 Parent Dose Report

Title : Industrial No Cap Base  
File : INDUSTRIAL NO CAP BASE.ROF

|          |           | Individual Nuclide Dose Summed Over All Pathways<br>Parent Nuclide and Thread Fraction Indicated |                    |           |           |           |           |           |           |           |           |
|----------|-----------|--------------------------------------------------------------------------------------------------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0Nuclide | Parent    | THF(i)                                                                                           | DOSE(j,t), mrem/yr |           |           |           |           |           |           |           |           |
| (j)      | (i)       |                                                                                                  | t=                 | 0.000E+00 | 1.000E+00 | 6.000E+00 | 1.200E+01 | 3.000E+01 | 1.000E+02 | 3.000E+02 | 1.000E+03 |
| 0Cm-248  | Cf-252    | 1.111E-03                                                                                        | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| 0Pu-244  | Cf-252    | 1.111E-03                                                                                        | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| 0Pu-244  | Cf-252    | 4.395E-08                                                                                        | 2.563E-35          | 1.516E-34 | 1.891E-33 | 4.938E-33 | 1.496E-32 | 5.477E-32 | 1.734E-31 |           |           |
| 0Pu-244  | %DOSE(j): |                                                                                                  | 2.563E-35          | 1.516E-34 | 1.891E-33 | 4.938E-33 | 1.496E-32 | 5.477E-32 | 1.734E-31 |           |           |
| 0Pu-240  | Cf-252    | 4.395E-08                                                                                        | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.401E-45 |           |
| 0Pu-240  | Pu-240    | 4.950E-08                                                                                        | 5.883E-23          | 5.885E-23 | 5.893E-23 | 5.903E-23 | 5.932E-23 | 6.047E-23 | 6.389E-23 |           |           |
| 0Pu-240  | %DOSE(j): |                                                                                                  | 5.883E-23          | 5.885E-23 | 5.893E-23 | 5.903E-23 | 5.932E-23 | 6.047E-23 | 6.389E-23 |           |           |
| 0Cf-252  | Cf-252    | 8.879E-01                                                                                        | 1.282E-23          | 9.862E-24 | 2.656E-24 | 5.504E-25 | 4.892E-27 | 5.140E-35 | 0.000E+00 | 0.000E+00 |           |
| 0Pu-244  | Cf-252    | 8.879E-01                                                                                        | 5.177E-28          | 3.062E-27 | 3.820E-26 | 9.975E-26 | 3.022E-25 | 1.106E-24 | 3.503E-24 |           |           |
| 0Pu-240  | Cf-252    | 8.879E-01                                                                                        | 5.605E-45          | 7.287E-44 | 3.859E-42 | 2.075E-41 | 1.704E-40 | 2.247E-39 | 2.264E-38 |           |           |
| 0U-236   | Cf-252    | 8.879E-01                                                                                        | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.803E-45 | 1.037E-43 | 3.152E-42 |           |           |
| U-236    | Pu-240    | 1.000E+00                                                                                        | 8.430E-22          | 2.530E-21 | 1.098E-20 | 2.115E-20 | 5.187E-20 | 1.744E-19 | 5.530E-19 |           |           |

2.260E-18  
 U-236 U-236 1.000E+00 9.739E-18 9.742E-18 9.759E-18 9.779E-18 9.840E-18 1.008E-17 1.080E-17  
 1.375E-17  
 U-236 %DOSE(j): 9.740E-18 9.745E-18 9.770E-18 9.800E-18 9.892E-18 1.025E-17 1.135E-17  
 1.601E-17  
 0Th-232 Cf-252 8.879E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00  
 +00  
 Th-232 Pu-240 1.000E+00 1.285E-32 8.137E-32 1.453E-30 5.370E-30 3.213E-29 3.569E-28 3.407E-27  
 4.752E-26  
 Th-232 Th-232 1.000E+00 1.944E-19 1.945E-19 1.948E-19 1.953E-19 1.965E-19 2.016E-19 2.168E-19  
 2.796E-19  
 Th-232 U-236 1.000E+00 1.976E-28 5.929E-28 2.574E-27 4.960E-27 1.218E-26 4.118E-26 1.324E-25  
 5.682E-25  
 Th-232 %DOSE(j): 1.944E-19 1.945E-19 1.948E-19 1.953E-19 1.965E-19 2.016E-19 2.168E-19  
 2.796E-19  
 0Ra-228 Cf-252 8.879E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.630E-39  
 6.119E-37  
 Ra-228 Pu-240 1.000E+00 2.142E-22 2.632E-21 1.614E-19 9.800E-19 9.774E-18 1.511E-16 1.540E-15  
 1.916E-14  
 Ra-228 Ra-228 1.000E+00 3.962E-05 3.513E-05 1.924E-05 9.345E-06 1.070E-06 2.339E-10 8.149E-21 0.000E+00  
 +00  
 Ra-228 Th-232 1.000E+00 5.714E-09 1.633E-08 5.386E-08 7.728E-08 9.705E-08 1.006E-07 1.036E-07  
 1.146E-07  
 Ra-228 U-236 1.000E+00 4.414E-18 2.706E-17 4.029E-16 1.220E-15 4.536E-15 1.885E-14 6.148E-14  
 2.310E-13  
 Ra-228 %DOSE(j): 3.963E-05 3.515E-05 1.930E-05 9.422E-06 1.167E-06 1.008E-07 1.036E-07  
 1.146E-07  
 0Th-228 Cf-252 8.879E-01 3.834E-39 8.974E-39 2.460E-38 1.877E-38 1.943E-38 1.960E-38 1.097E-37  
 1.330E-35  
 Th-228 Pu-240 1.000E+00 3.734E-22 8.327E-21 1.483E-18 1.307E-17 1.783E-16 3.222E-15 3.395E-14  
 4.178E-13  
 Th-228 Ra-228 1.000E+00 1.447E-04 3.571E-04 5.172E-04 3.021E-04 3.633E-05 7.928E-09 2.743E-19 0.000E+00  
 +00

Th-228 Th-228 1.000E+00 1.711E-06 1.191E-06 1.949E-07 2.220E-08 3.279E-11 3.190E-22 0.000E+00 0.000E+00  
 Th-228 Th-232 1.000E+00 1.618E-08 9.029E-08 8.162E-07 1.516E-06 2.172E-06 2.275E-06 2.326E-06  
 2.512E-06  
 Th-228 U-236 1.000E+00 9.391E-18 1.076E-16 4.562E-15 1.917E-14 9.065E-14 4.135E-13 1.368E-12  
 5.049E-12  
 Th-228 %DOSE(j): 1.464E-04 3.584E-04 5.183E-04 3.036E-04 3.851E-05 2.283E-06 2.326E-06  
 2.512E-06  
 0Cl-36 Cl-36 1.000E+00 9.975E-13 9.976E-13 9.980E-13 9.984E-13 9.997E-13 1.005E-12 1.019E-12  
 1.071E-12  
 1RESRAD-OFFSITE, Version 2.6 T Limit = 30 days 09/19/2012 14:54 Page 95  
 Parent Dose Report  
 Title : Industrial No Cap Base  
 File : INDUSTRIAL NO CAP BASE.ROF

## Individual Nuclide Dose Summed Over All Pathways

Parent Nuclide and Thread Fraction Indicated

| 0Nuclide | Parent | THF(i)    | DOSE(j,t), mrem/yr |           |           |           |           |           |           |           |           |
|----------|--------|-----------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| (j)      | (i)    |           | t=                 | 0.000E+00 | 1.000E+00 | 6.000E+00 | 1.200E+01 | 3.000E+01 | 1.000E+02 | 3.000E+02 | 1.000E+03 |
| Co-60    | Co-60  | 1.000E+00 | 2.536E-04          | 2.224E-04 | 1.153E-04 | 5.244E-05 | 4.929E-06 | 4.999E-10 | 1.941E-21 | 0.000E+00 | 0.000E+00 |
| 0Cs-134  | Cs-134 | 1.000E+00 | 8.909E-12          | 6.368E-12 | 1.188E-12 | 1.583E-13 | 3.747E-16 | 2.285E-26 | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| 0Cs-137  | Cs-137 | 1.000E+00 | 3.281E-03          | 3.207E-03 | 2.860E-03 | 2.492E-03 | 1.649E-03 | 3.310E-04 | 3.368E-06 | 3.579E-13 | 8.809E-42 |
| 0Eu-154  | Eu-154 | 1.000E+00 | 1.230E-07          | 1.137E-07 | 7.673E-08 | 4.787E-08 | 1.163E-08 | 4.735E-11 | 7.021E-18 | 8.809E-42 | 0.000E+00 |
| 0Eu-155  | Eu-155 | 1.000E+00 | 6.400E-16          | 5.567E-16 | 2.773E-16 | 1.202E-16 | 9.773E-18 | 5.645E-22 | 4.390E-34 | 0.000E+00 | 0.000E+00 |
| 0H-3     | H-3    | 1.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |



+00

0Ho-166m Ho-166m 1.000E+00 2.159E-06 2.158E-06 2.153E-06 2.148E-06 2.132E-06 2.071E-06 1.906E-06  
1.425E-06

0Na-22 Na-22 1.000E+00 1.314E-08 1.007E-08 2.662E-09 5.391E-10 4.475E-12 3.603E-20 2.705E-43 0.000E  
+00

0Pb-210 Pb-210 1.000E+00 1.478E-11 1.433E-11 1.228E-11 1.020E-11 5.856E-12 6.757E-13 1.413E-15  
5.906E-25

Pb-210 Pu-238 1.000E+00 3.129E-25 7.464E-24 1.920E-21 2.477E-20 7.682E-19 5.815E-17 1.862E-15  
4.369E-14

Pb-210 Pu-242 9.999E-01 6.585E-33 9.244E-33 0.000E+00 0.000E+00 9.696E-33 3.917E-30 5.522E-28  
9.720E-26

Pb-210 Ra-226 1.000E+00 3.114E-13 9.222E-13 3.707E-12 6.525E-12 1.241E-11 1.922E-11 1.935E-11  
1.681E-11

Pb-210 Th-230 1.000E+00 1.105E-15 6.938E-15 1.177E-13 4.097E-13 2.066E-12 1.339E-11 5.175E-11  
1.896E-10

Pb-210 U-234 1.000E+00 1.413E-21 1.768E-20 1.196E-18 8.087E-18 1.035E-16 2.481E-15 3.289E-14  
4.504E-13

Pb-210 U-238 9.999E-01 0.000E+00 2.833E-26 7.069E-24 9.192E-23 2.936E-21 2.491E-19 1.084E-17  
5.367E-16

Pb-210 %DOSE(j): 1.509E-11 1.526E-11 1.610E-11 1.714E-11 2.033E-11 3.329E-11 7.114E-11  
2.069E-10

0Po-210 Pb-210 1.000E+00 4.806E-11 8.520E-11 7.961E-11 6.613E-11 3.790E-11 4.350E-12 8.960E-15  
3.554E-24

Po-210 Pu-238 1.000E+00 5.123E-25 1.955E-23 9.051E-21 1.340E-19 4.572E-18 3.613E-16 1.155E-14  
2.581E-13

Po-210 Pu-242 9.999E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 2.392E-29 3.415E-27  
5.737E-25

Po-210 Ra-226 1.000E+00 8.824E-13 3.925E-12 2.180E-11 4.006E-11 7.808E-11 1.216E-10 1.207E-10  
9.947E-11

Po-210 Th-230 1.000E+00 2.504E-15 2.403E-14 6.380E-13 2.403E-12 1.274E-11 8.410E-11 3.220E-10  
1.121E-09

Po-210 U-234 1.000E+00 2.736E-21 5.252E-20 6.026E-18 4.550E-17 6.264E-16 1.549E-14 2.042E-13  
2.661E-12

Po-210 U-238 9.999E-01 6.464E-26 2.784E-25 3.357E-23 4.973E-22 1.746E-20 1.546E-18 6.718E-17  
 3.169E-15  
 Po-210 %DOSE(j): 4.895E-11 8.915E-11 1.020E-10 1.086E-10 1.287E-10 2.100E-10 4.429E-10  
 1.223E-09  
 0Pm-147 Pm-147 1.000E+00 1.879E-26 1.444E-26 3.861E-27 7.933E-28 6.874E-30 6.540E-38 0.000E+00 0.000E  
 +00  
 0Sm-147 Pm-147 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E  
 +00  
 0Pu-238 Pu-238 1.840E-09 3.009E-22 2.986E-22 2.876E-22 2.748E-22 2.399E-22 1.413E-22 3.117E-23  
 1.571E-25  
 Pu-238 Pu-238 1.000E+00 1.635E-13 1.623E-13 1.563E-13 1.494E-13 1.304E-13 7.681E-14 1.694E-14  
 8.539E-17  
 Pu-238 %DOSE(j): 1.635E-13 1.623E-13 1.563E-13 1.494E-13 1.304E-13 7.681E-14 1.694E-14  
 8.539E-17

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T' Limit = 30 days

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

## Individual Nuclide Dose Summed Over All Pathways

Parent Nuclide and Thread Fraction Indicated

| 0Nuclide | Parent | THF(i)    | DOSE(j,t), mrem/yr |           |           |           |           |           |           |           |           |
|----------|--------|-----------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| (j)      | (i)    |           | t=                 | 0.000E+00 | 1.000E+00 | 6.000E+00 | 1.200E+01 | 3.000E+01 | 1.000E+02 | 3.000E+02 | 1.000E+03 |
| U-234    | Pu-238 | 1.000E+00 | 1.984E-18          | 5.936E-18 | 2.527E-17 | 4.757E-17 | 1.090E-16 | 2.855E-16 | 5.054E-16 |           |           |
| U-234    | Pu-242 | 9.999E-01 | 1.989E-33          | 1.259E-32 | 2.248E-31 | 8.311E-31 | 4.974E-30 | 5.529E-29 | 5.287E-28 |           |           |
| U-234    | U-234  | 1.000E+00 | 4.069E-15          | 4.070E-15 | 4.077E-15 | 4.085E-15 | 4.110E-15 | 4.207E-15 | 4.499E-15 |           |           |
| U-234    | U-238  | 9.999E-01 | 7.243E-21          | 2.174E-20 | 9.435E-20 | 1.818E-19 | 4.463E-19 | 1.506E-18 | 4.815E-18 |           |           |

2.029E-17  
 U-234 %DOSE(j): 4.071E-15 4.076E-15 4.102E-15 4.133E-15 4.219E-15 4.494E-15 5.009E-15  
 6.412E-15  
 0Th-230 Pu-238 1.000E+00 6.430E-23 4.063E-22 7.160E-21 2.606E-20 1.489E-19 1.396E-18 8.879E-18  
 5.230E-17  
 Th-230 Pu-242 9.999E-01 1.241E-36 2.379E-36 4.126E-35 2.953E-34 4.362E-33 1.594E-31 4.544E-30  
 2.102E-28  
 Th-230 Th-230 1.000E+00 7.652E-14 7.655E-14 7.667E-14 7.682E-14 7.726E-14 7.899E-14 8.418E-14  
 1.051E-13  
 Th-230 U-234 1.000E+00 1.753E-19 5.261E-19 2.283E-18 4.399E-18 1.080E-17 3.638E-17 1.160E-16  
 4.832E-16  
 Th-230 U-238 9.999E-01 2.345E-25 1.485E-24 2.651E-23 9.799E-23 5.863E-22 6.510E-21 6.207E-20  
 8.620E-19  
 Th-230 %DOSE(j): 7.652E-14 7.655E-14 7.667E-14 7.682E-14 7.727E-14 7.903E-14 8.430E-14  
 1.057E-13  
 0Ra-226 Pu-238 1.000E+00 4.301E-16 5.407E-15 3.759E-13 2.624E-12 3.674E-11 1.157E-09 2.263E-08  
 4.067E-07  
 Ra-226 Pu-242 9.999E-01 6.703E-26 9.988E-26 2.408E-26 0.000E+00 1.027E-24 9.356E-23 7.535E-21  
 9.551E-19  
 Ra-226 Ra-226 1.000E+00 1.950E-04 1.950E-04 1.947E-04 1.943E-04 1.933E-04 1.892E-04 1.781E-04  
 1.442E-04  
 Ra-226 Th-230 1.000E+00 9.186E-07 2.756E-06 1.194E-05 2.294E-05 5.588E-05 1.830E-04 5.377E-04  
 1.693E-03  
 Ra-226 U-234 1.000E+00 1.581E-12 1.001E-11 1.784E-10 6.581E-10 3.914E-09 4.244E-08 3.782E-07  
 4.160E-06  
 Ra-226 U-238 9.999E-01 1.481E-18 1.973E-17 1.386E-15 9.787E-15 1.419E-13 5.080E-12 1.364E-10  
 5.117E-09  
 Ra-226 %DOSE(j): 1.960E-04 1.977E-04 2.066E-04 2.173E-04 2.492E-04 3.723E-04 7.163E-04  
 1.841E-03  
 0Pu-240 Pu-240 1.000E+00 1.189E-15 1.189E-15 1.190E-15 1.192E-15 1.198E-15 1.222E-15 1.291E-15  
 1.564E-15  
 0Pu-241 Pu-241 2.450E-05 7.849E-12 7.483E-12 5.890E-12 4.419E-12 1.867E-12 6.541E-14 4.543E-18  
 1.268E-32

|           |           |           |           |           |           |           |           |           |           |           |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0Pu-242   | Pu-242    | 5.500E-06 | 1.787E-24 | 1.788E-24 | 1.791E-24 | 1.795E-24 | 1.807E-24 | 1.854E-24 | 1.995E-24 |           |
| 2.579E-24 |           |           |           |           |           |           |           |           |           |           |
| Pu-242    | Pu-242    | 5.400E-05 | 1.755E-23 | 1.755E-23 | 1.759E-23 | 1.763E-23 | 1.774E-23 | 1.820E-23 | 1.959E-23 |           |
| 2.532E-23 |           |           |           |           |           |           |           |           |           |           |
| Pu-242    | %DOSE(j): |           | 1.934E-23 | 1.934E-23 | 1.938E-23 | 1.942E-23 | 1.955E-23 | 2.006E-23 | 2.159E-23 |           |
| 2.790E-23 |           |           |           |           |           |           |           |           |           |           |
| 0U-238    | Pu-242    | 5.400E-05 | 0.000E+00 | 0.000E+00 | 1.401E-45 | 1.401E-45 | 4.204E-45 | 1.401E-44 | 4.764E-44 |           |
| 2.690E-43 |           |           |           |           |           |           |           |           |           |           |
| U-238     | Pu-242    | 9.999E-01 | 1.588E-18 | 4.766E-18 | 2.067E-17 | 3.978E-17 | 9.734E-17 | 3.243E-16 | 1.000E-15 |           |
| 3.713E-15 |           |           |           |           |           |           |           |           |           |           |
| U-238     | U-238     | 5.400E-05 | 1.741E-34 | 1.742E-34 | 1.749E-34 | 1.757E-34 | 1.781E-34 | 1.877E-34 | 2.180E-34 |           |
| 3.686E-34 |           |           |           |           |           |           |           |           |           |           |
| U-238     | %DOSE(j): |           | 1.588E-18 | 4.766E-18 | 2.067E-17 | 3.978E-17 | 9.734E-17 | 3.243E-16 | 1.000E-15 |           |
| 3.713E-15 |           |           |           |           |           |           |           |           |           |           |
| 0Pu-242   | Pu-242    | 9.999E-01 | 3.250E-19 | 3.251E-19 | 3.257E-19 | 3.264E-19 | 3.286E-19 | 3.371E-19 | 3.628E-19 |           |
| 4.690E-19 |           |           |           |           |           |           |           |           |           |           |
| 0Ru-106   | Ru-106    | 1.000E+00 | 2.030E-15 | 1.021E-15 | 3.293E-17 | 5.339E-19 | 2.265E-24 | 2.803E-45 | 0.000E+00 | 0.000E+00 |
| +00       |           |           |           |           |           |           |           |           |           |           |
| 0Sb-125   | Sb-125    | 7.720E-01 | 1.882E-10 | 1.466E-10 | 4.196E-11 | 9.354E-12 | 1.036E-13 | 2.559E-21 | 4.722E-43 | 0.000E+00 |
| +00       |           |           |           |           |           |           |           |           |           |           |
| Sb-125    | Sb-125    | 2.280E-01 | 5.558E-11 | 4.328E-11 | 1.239E-11 | 2.763E-12 | 3.059E-14 | 7.559E-22 | 1.387E-43 | 0.000E+00 |
| +00       |           |           |           |           |           |           |           |           |           |           |
| Sb-125    | %DOSE(j): |           | 2.438E-10 | 1.898E-10 | 5.435E-11 | 1.212E-11 | 1.342E-13 | 3.315E-21 | 6.110E-43 | 0.000E+00 |
| +00       |           |           |           |           |           |           |           |           |           |           |
| 0Te-125m  | Sb-125    | 2.280E-01 | 1.670E-30 | 1.990E-30 | 5.748E-31 | 1.285E-31 | 1.435E-33 | 3.666E-41 | 0.000E+00 | 0.000E+00 |
| +00       |           |           |           |           |           |           |           |           |           |           |
| 0Sm-151   | Sm-151    | 1.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| +00       |           |           |           |           |           |           |           |           |           |           |

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T' Limit = 30 days

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

## Individual Nuclide Dose Summed Over All Pathways

Parent Nuclide and Thread Fraction Indicated

| 0Nuclide Parent | THF(i)   | DOSE(j,t), mrem/yr |            |            |            |            |            |            |            |  |
|-----------------|----------|--------------------|------------|------------|------------|------------|------------|------------|------------|--|
| (j) (i)         | t=       | 0.000E+00          | 1.000E+00  | 6.000E+00  | 1.200E+01  | 3.000E+01  | 1.000E+02  | 3.000E+02  | 1.000E+03  |  |
| 0Sn-121m        | Sn-121m  | 1.000E+00          | 5.324E-17  | 5.259E-17  | 4.946E-17  | 4.595E-17  | 3.684E-17  | 1.560E-17  | 1.339E-18  |  |
| 2.482E-22       |          |                    |            |            |            |            |            |            |            |  |
| 0Sn-126         | Sn-126   | 1.000E+00          | 4.375E-07  | 4.375E-07  | 4.379E-07  | 4.383E-07  | 4.396E-07  | 4.445E-07  | 4.589E-07  |  |
| 5.130E-07       |          |                    |            |            |            |            |            |            |            |  |
| 0Sr-90          | Sr-90    | 1.000E+00          | 1.266E-07  | 1.236E-07  | 1.099E-07  | 9.537E-08  | 6.237E-08  | 1.196E-08  | 1.067E-10  |  |
| 7.151E-18       |          |                    |            |            |            |            |            |            |            |  |
| 0U-238          | U-238    | 9.999E-01          | 4.347E-06  | 4.348E-06  | 4.351E-06  | 4.355E-06  | 4.368E-06  | 4.415E-06  | 4.555E-06  |  |
| 5.080E-06       |          |                    |            |            |            |            |            |            |            |  |
| 00000000        | 00000000 | 0000000000         | 0000000000 | 0000000000 | 0000000000 | 0000000000 | 0000000000 | 0000000000 | 0000000000 |  |
| 0000000000      |          |                    |            |            |            |            |            |            |            |  |

THF(i) is the thread fraction of the parent nuclide.

1RESRAD-OFFSITE, Version 2.6

T' Limit = 30 days

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

## Individual Nuclide Soil Concentration

Parent Nuclide and Thread Fraction Indicated

| 0Nuclide Parent | THF(i) | S(j,t), pCi/g |           |           |           |           |           |           |           |  |
|-----------------|--------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| (j) (i)         | t=     | 0.000E+00     | 1.000E+00 | 6.000E+00 | 1.200E+01 | 3.000E+01 | 1.000E+02 | 3.000E+02 | 1.000E+03 |  |
| Ac-227          | Ac-227 | 1.000E+00     | 2.340E+00 | 2.267E+00 | 1.933E+00 | 1.597E+00 | 9.004E-01 | 9.697E-02 | 1.665E-04 |  |
| Ac-227          | Cf-251 | 1.000E+00     | 0.000E+00 | 0.000E+00 | 5.817E-27 | 2.067E-26 | 0.000E+00 | 9.344E-25 | 4.167E-22 |  |

2.086E-19

Ac-227 Pu-239 1.000E+00 0.000E+00 1.022E-12 2.110E-10 1.611E-09 2.210E-08 5.398E-07 7.015E-06

8.903E-05

Ac-227 U-235 1.000E+00 0.000E+00 7.285E-05 2.483E-03 9.346E-03 4.923E-02 3.221E-01 1.235E+00 4.419E+00

Ac-227 %S(j): 2.340E+00 2.267E+00 1.936E+00 1.606E+00 9.497E-01 4.190E-01 1.235E+00 4.420E+00

Al-26 Al-26 1.000E+00 7.640E+02 7.640E+02 7.640E+02 7.640E+02 7.640E+02 7.639E+02 7.638E+02 7.632E+02

Am-241 Am-241 1.000E+00 1.410E+03 1.408E+03 1.396E+03 1.383E+03 1.344E+03 1.201E+03 8.715E+02 2.836E+02

Am-241 Cf-249 1.000E+00 0.000E+00 3.380E-12 6.812E-10 5.060E-09 6.442E-08 1.278E-06 1.185E-05

Am-241 Pu-241 1.000E+00 0.000E+00 5.976E+00 3.176E+01 5.526E+01 9.440E+01 1.111E+02 8.138E+01 2.648E+01

Am-241 %S(j): 1.410E+03 1.414E+03 1.428E+03 1.438E+03 1.438E+03 1.312E+03 9.529E+02 3.101E+02

Np-237 Am-241 1.000E+00 0.000E+00 4.563E-04 2.727E-03 5.428E-03 1.338E-02 4.219E-02 1.087E-01

Np-237 Cf-249 1.000E+00 0.000E+00 2.758E-19 3.364E-16 5.067E-15 1.675E-13 1.229E-11 3.928E-10

Np-237 Cf-249 2.450E-05 0.000E+00 1.673E-20 3.379E-18 2.516E-17 3.229E-16 6.624E-15 6.828E-14

Np-237 Np-237 1.000E+00 1.620E-03 1.620E-03 1.620E-03 1.620E-03 1.620E-03 1.620E-03 1.620E-03

Np-237 Pu-241 1.000E+00 0.000E+00 9.787E-07 3.242E-05 1.181E-04 5.722E-04 3.061E-03 9.268E-03

Np-237 Pu-241 2.450E-05 0.000E+00 2.959E-08 1.580E-07 2.763E-07 4.811E-07 6.246E-07 6.296E-07

Np-237 %S(j): 1.620E-03 2.077E-03 4.380E-03 7.166E-03 1.557E-02 4.688E-02 1.196E-01

U-233 Am-241 1.000E+00 0.000E+00 1.001E-09 3.585E-08 1.429E-07 8.845E-07 9.471E-06 7.699E-05

6.235E-04

|           |        |           |           |           |           |           |           |           |           |
|-----------|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| U-233     | Cf-249 | 1.000E+00 | 0.000E+00 | 0.000E+00 | 1.801E-21 | 5.431E-20 | 4.603E-18 | 1.209E-15 | 1.278E-13 |
| 1.190E-11 |        |           |           |           |           |           |           |           |           |
| U-233     | Cf-249 | 2.450E-05 | 0.000E+00 | 1.734E-26 | 2.252E-23 | 3.399E-22 | 1.131E-20 | 8.506E-19 | 2.936E-17 |
| 9.210E-16 |        |           |           |           |           |           |           |           |           |
| U-233     | Np-237 | 1.000E+00 | 0.000E+00 | 7.085E-09 | 4.251E-08 | 8.501E-08 | 2.125E-07 | 7.082E-07 | 2.123E-06 |
| 7.062E-06 |        |           |           |           |           |           |           |           |           |
| U-233     | Pu-241 | 1.000E+00 | 0.000E+00 | 1.439E-12 | 2.907E-10 | 2.167E-09 | 2.786E-08 | 5.768E-07 | 6.108E-06 |
| 5.444E-05 |        |           |           |           |           |           |           |           |           |
| U-233     | Pu-241 | 2.450E-05 | 0.000E+00 | 6.542E-14 | 2.173E-12 | 7.945E-12 | 3.891E-11 | 2.186E-10 | 7.683E-10 |
| 2.688E-09 |        |           |           |           |           |           |           |           |           |
| U-233     | U-233  | 1.000E+00 | 2.790E+00 | 2.790E+00 | 2.790E+00 | 2.790E+00 | 2.790E+00 | 2.788E+00 | 2.785E+00 |
| +00       |        |           |           |           |           |           |           |           | 2.774E    |
| U-233     | %S(j): |           | 2.790E+00 | 2.790E+00 | 2.790E+00 | 2.790E+00 | 2.790E+00 | 2.788E+00 | 2.785E+00 |
| +00       |        |           |           |           |           |           |           |           | 2.775E    |
| 0Th-229   | Am-241 | 1.000E+00 | 0.000E+00 | 3.163E-14 | 6.782E-12 | 5.408E-11 | 8.381E-10 | 3.014E-08 | 7.499E-07 |
| 2.142E-05 |        |           |           |           |           |           |           |           |           |
| Th-229    | Cf-249 | 1.000E+00 | 0.000E+00 | 0.000E+00 | 1.355E-23 | 3.336E-23 | 2.225E-21 | 2.071E-18 | 7.057E-16 |
| 2.414E-13 |        |           |           |           |           |           |           |           |           |
| Th-229    | Cf-249 | 2.450E-05 | 0.000E+00 | 0.000E+00 | 2.911E-27 | 7.903E-26 | 6.691E-24 | 1.792E-21 | 2.006E-19 |
| 2.273E-17 |        |           |           |           |           |           |           |           |           |
| Th-229    | Np-237 | 1.000E+00 | 0.000E+00 | 3.355E-13 | 1.205E-11 | 4.816E-11 | 3.008E-10 | 3.334E-09 | 2.980E-08 |
| 3.235E-07 |        |           |           |           |           |           |           |           |           |
| Th-229    | Pu-241 | 1.000E+00 | 0.000E+00 | 3.212E-17 | 4.183E-14 | 6.316E-13 | 2.104E-11 | 1.592E-09 | 5.582E-08 |
| 1.830E-06 |        |           |           |           |           |           |           |           |           |
| Th-229    | Pu-241 | 2.450E-05 | 0.000E+00 | 2.076E-18 | 4.204E-16 | 3.140E-15 | 4.068E-14 | 8.689E-13 | 1.010E-11 |
| 1.207E-10 |        |           |           |           |           |           |           |           |           |
| Th-229    | U-233  | 1.000E+00 | 0.000E+00 | 2.635E-04 | 1.580E-03 | 3.160E-03 | 7.892E-03 | 2.622E-02 | 7.787E-02 |
| 2.507E-01 |        |           |           |           |           |           |           |           |           |
| Th-229    | %S(j): |           | 0.000E+00 | 2.635E-04 | 1.580E-03 | 3.160E-03 | 7.892E-03 | 2.622E-02 | 7.787E-02 |
| 2.507E-01 |        |           |           |           |           |           |           |           |           |
| 0Cf-249   | Cf-249 | 5.200E-09 | 1.685E-11 | 1.681E-11 | 1.665E-11 | 1.645E-11 | 1.588E-11 | 1.383E-11 | 9.310E-12 |
| 2.333E-12 |        |           |           |           |           |           |           |           |           |
| Cf-249    | Cf-249 | 1.000E+00 | 3.240E-03 | 3.234E-03 | 3.202E-03 | 3.164E-03 | 3.053E-03 | 2.659E-03 | 1.790E-03 |

4.487E-04

Cf-249 %S(j): 3.240E-03 3.234E-03 3.202E-03 3.164E-03 3.053E-03 2.659E-03 1.790E-03

4.487E-04

1RESRAD-OFFSITE, Version 2.6

T' Limit = 30 days

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

Individual Nuclide Soil Concentration  
Parent Nuclide and Thread Fraction Indicated

| 0Nuclide  | Parent | THF(i)    | S(j,t), pCi/g |           |           |           |           |           |           |           |           |
|-----------|--------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| (j)       | (i)    |           | t=            | 0.000E+00 | 1.000E+00 | 6.000E+00 | 1.200E+01 | 3.000E+01 | 1.000E+02 | 3.000E+02 | 1.000E+03 |
| Cm-245    | Cf-249 | 1.000E+00 | 0.000E+00     | 2.639E-07 | 1.575E-06 | 3.132E-06 | 7.686E-06 | 2.387E-05 | 5.899E-05 |           |           |
| 1.092E-04 |        |           |               |           |           |           |           |           |           |           |           |
| Cm-245    | %S(j): |           | 0.000E+00     | 2.639E-07 | 1.575E-06 | 3.132E-06 | 7.686E-06 | 2.387E-05 | 5.899E-05 |           |           |
| 1.092E-04 |        |           |               |           |           |           |           |           |           |           |           |
| 0Pu-241   | Cf-249 | 1.000E+00 | 0.000E+00     | 6.271E-09 | 2.076E-07 | 7.557E-07 | 3.649E-06 | 1.925E-05 | 5.592E-05 |           |           |
| 1.086E-04 |        |           |               |           |           |           |           |           |           |           |           |
| Pu-241    | Cf-249 | 2.450E-05 | 0.000E+00     | 1.537E-13 | 5.086E-12 | 1.852E-11 | 8.940E-11 | 4.717E-10 | 1.370E-09 |           |           |
| 2.660E-09 |        |           |               |           |           |           |           |           |           |           |           |
| Pu-241    | Pu-241 | 1.000E+00 | 3.820E+03     | 3.640E+03 | 2.862E+03 | 2.144E+03 | 9.014E+02 | 3.102E+01 | 2.045E-03 |           |           |
| 4.756E-18 |        |           |               |           |           |           |           |           |           |           |           |
| Pu-241    | %S(j): |           | 3.820E+03     | 3.640E+03 | 2.862E+03 | 2.144E+03 | 9.014E+02 | 3.102E+01 | 2.101E-03 |           |           |
| 1.086E-04 |        |           |               |           |           |           |           |           |           |           |           |
| 0Cf-249   | Cf-249 | 2.450E-05 | 7.938E-08     | 7.922E-08 | 7.844E-08 | 7.752E-08 | 7.481E-08 | 6.514E-08 | 4.387E-08 |           |           |
| 1.099E-08 |        |           |               |           |           |           |           |           |           |           |           |
| 0Cm-245   | Cf-249 | 2.450E-05 | 0.000E+00     | 6.467E-12 | 3.860E-11 | 7.673E-11 | 1.883E-10 | 5.849E-10 | 1.445E-09 |           |           |
| 2.675E-09 |        |           |               |           |           |           |           |           |           |           |           |
| 0Cf-251   | Cf-251 | 1.000E+00 | 1.340E-02     | 1.339E-02 | 1.334E-02 | 1.328E-02 | 1.309E-02 | 1.240E-02 | 1.063E-02 |           |           |
| 6.193E-03 |        |           |               |           |           |           |           |           |           |           |           |



|           |        |           |           |           |           |           |           |           |           |
|-----------|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0Cm-247   | Cf-251 | 1.000E+00 | 0.000E+00 | 5.952E-10 | 3.564E-09 | 7.112E-09 | 1.766E-08 | 5.730E-08 | 1.594E-07 |
| 4.149E-07 |        |           |           |           |           |           |           |           |           |
| 0Am-243   | Cf-251 | 1.000E+00 | 0.000E+00 | 2.803E-14 | 1.005E-12 | 4.013E-12 | 2.495E-11 | 2.717E-10 | 2.311E-09 |
| 2.125E-08 |        |           |           |           |           |           |           |           |           |
| 0Pu-239   | Cf-251 | 1.000E+00 | 0.000E+00 | 2.703E-19 | 5.798E-17 | 4.629E-16 | 7.201E-15 | 2.625E-13 | 6.784E-12 |
| 2.167E-10 |        |           |           |           |           |           |           |           |           |
| Pu-239    | Pu-239 | 1.000E+00 | 9.250E+03 | 9.250E+03 | 9.248E+03 | 9.247E+03 | 9.242E+03 | 9.223E+03 | 9.170E+03 |
| +03       |        |           |           |           |           |           |           |           | 8.987E    |
| Pu-239    | %S(j): |           | 9.250E+03 | 9.250E+03 | 9.248E+03 | 9.247E+03 | 9.242E+03 | 9.223E+03 | 9.170E+03 |
| +03       |        |           |           |           |           |           |           |           | 8.987E    |
| 0U-235    | Cf-251 | 1.000E+00 | 0.000E+00 | 0.000E+00 | 1.077E-25 | 1.395E-24 | 5.329E-23 | 6.493E-21 | 5.077E-19 |
| 5.565E-17 |        |           |           |           |           |           |           |           |           |
| U-235     | Pu-239 | 1.000E+00 | 0.000E+00 | 9.110E-06 | 5.466E-05 | 1.093E-04 | 2.732E-04 | 9.096E-04 | 2.721E-03 |
| 8.974E-03 |        |           |           |           |           |           |           |           |           |
| U-235     | U-235  | 1.000E+00 | 2.180E+02 | 2.180E+02 | 2.180E+02 | 2.180E+02 | 2.180E+02 | 2.180E+02 | 2.179E+02 |
| +02       |        |           |           |           |           |           |           |           | 2.177E    |
| U-235     | %S(j): |           | 2.180E+02 | 2.180E+02 | 2.180E+02 | 2.180E+02 | 2.180E+02 | 2.180E+02 | 2.179E+02 |
| +02       |        |           |           |           |           |           |           |           | 2.177E    |
| 0Pa-231   | Cf-251 | 1.000E+00 | 0.000E+00 | 0.000E+00 | 1.424E-26 | 3.609E-26 | 2.809E-26 | 2.743E-24 | 6.495E-22 |
| 2.413E-19 |        |           |           |           |           |           |           |           |           |
| Pa-231    | Pu-239 | 1.000E+00 | 0.000E+00 | 9.666E-11 | 3.471E-09 | 1.388E-08 | 8.670E-08 | 9.621E-07 | 8.630E-06 |
| 9.475E-05 |        |           |           |           |           |           |           |           |           |
| Pa-231    | U-235  | 1.000E+00 | 0.000E+00 | 4.612E-03 | 2.767E-02 | 5.534E-02 | 1.383E-01 | 4.607E-01 | 1.379E+00 |
| +00       |        |           |           |           |           |           |           |           | 4.561E    |
| Pa-231    | %S(j): |           | 0.000E+00 | 4.612E-03 | 2.767E-02 | 5.534E-02 | 1.383E-01 | 4.607E-01 | 1.379E+00 |
| +00       |        |           |           |           |           |           |           |           | 4.561E    |
| 0Cf-252   | Cf-252 | 3.092E-02 | 4.669E-09 | 3.590E-09 | 9.656E-10 | 1.997E-10 | 1.765E-12 | 1.813E-20 | 2.733E-43 |
| +00       |        |           |           |           |           |           |           |           | 0.000E    |
| Cf-252    | Cf-252 | 8.005E-02 | 1.209E-08 | 9.295E-09 | 2.500E-09 | 5.169E-10 | 4.569E-12 | 4.694E-20 | 7.063E-43 |
| +00       |        |           |           |           |           |           |           |           | 0.000E    |
| Cf-252    | %S(j): |           | 1.676E-08 | 1.289E-08 | 3.465E-09 | 7.166E-10 | 6.334E-12 | 6.507E-20 | 9.795E-43 |
| +00       |        |           |           |           |           |           |           |           | 0.000E    |
| 0Cm-248   | Cf-252 | 8.005E-02 | 0.000E+00 | 2.173E-14 | 7.460E-14 | 9.003E-14 | 9.402E-14 | 9.404E-14 | 9.400E-14 |

9.386E-14

Cm-248 Cf-252 4.395E-08 0.000E+00 1.193E-20 4.096E-20 4.944E-20 5.162E-20 5.164E-20 5.161E-20  
5.154E-20

Cm-248 Cf-252 8.879E-01 0.000E+00 2.410E-13 8.276E-13 9.987E-13 1.043E-12 1.043E-12 1.043E-12  
1.041E-12

Cm-248 %S(j): 0.000E+00 2.627E-13 9.022E-13 1.089E-12 1.137E-12 1.137E-12 1.137E-12  
1.135E-12

0Cf-252 Cf-252 1.111E-03 1.678E-10 1.290E-10 3.470E-11 7.177E-12 6.343E-14 6.517E-22 9.809E-45 0.000E  
+00

Cf-252 Cf-252 4.395E-08 6.637E-15 5.104E-15 1.373E-15 2.838E-16 2.509E-18 2.577E-26 0.000E+00 0.000E  
+00

Cf-252 %S(j): 1.678E-10 1.290E-10 3.471E-11 7.177E-12 6.343E-14 6.517E-22 9.809E-45 0.000E  
+00

1RESRAD-OFFSITE, Version 2.6

T' Limit = 30 days

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

Individual Nuclide Soil Concentration  
Parent Nuclide and Thread Fraction Indicated

| 0Nuclide<br>(j) | Parent<br>(i) | THF(i) | S(j,t), pCi/g |           |           |           |           |           |           |           |           |
|-----------------|---------------|--------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                 |               |        | t=            | 0.000E+00 | 1.000E+00 | 6.000E+00 | 1.200E+01 | 3.000E+01 | 1.000E+02 | 3.000E+02 | 1.000E+03 |

ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff  
ffffffff

Cm-248 Cf-252 1.111E-03 0.000E+00 3.016E-16 1.036E-15 1.250E-15 1.305E-15 1.306E-15 1.305E-15  
1.303E-15

0Pu-244 Cf-252 1.111E-03 0.000E+00 1.325E-24 3.267E-23 9.157E-23 2.870E-22 1.054E-21 3.245E-21  
1.090E-20

0Pu-244 Cf-252 4.395E-08 0.000E+00 5.239E-29 1.292E-27 3.622E-27 1.135E-26 4.169E-26 1.283E-25  
4.313E-25

Pu-244 %S(j): 0.000E+00 5.239E-29 1.292E-27 3.622E-27 1.135E-26 4.169E-26 1.283E-25  
4.313E-25

|                |           |           |           |           |           |           |           |           |        |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|
| 0Pu-240 Cf-252 | 4.395E-08 | 0.000E+00 | 1.900E-33 | 3.061E-31 | 1.847E-30 | 1.608E-29 | 2.122E-28 | 1.995E-27 |        |
| 2.201E-26      |           |           |           |           |           |           |           |           |        |
| Pu-240 Pu-240  | 4.950E-08 | 1.178E-04 | 1.178E-04 | 1.177E-04 | 1.177E-04 | 1.174E-04 | 1.166E-04 | 1.141E-04 |        |
| 1.060E-04      |           |           |           |           |           |           |           |           |        |
| Pu-240 %S(j):  |           | 1.178E-04 | 1.178E-04 | 1.177E-04 | 1.177E-04 | 1.174E-04 | 1.166E-04 | 1.141E-04 |        |
| 1.060E-04      |           |           |           |           |           |           |           |           |        |
| 0Cf-252 Cf-252 | 8.879E-01 | 1.341E-07 | 1.031E-07 | 2.773E-08 | 5.734E-09 | 5.068E-11 | 5.207E-19 | 7.842E-42 | 0.000E |
| +00            |           |           |           |           |           |           |           |           |        |
| 0Pu-244 Cf-252 | 8.879E-01 | 0.000E+00 | 1.058E-21 | 2.610E-20 | 7.317E-20 | 2.293E-19 | 8.421E-19 | 2.592E-18 |        |
| 8.713E-18      |           |           |           |           |           |           |           |           |        |
| 0Pu-240 Cf-252 | 8.879E-01 | 0.000E+00 | 3.838E-26 | 6.184E-24 | 3.732E-23 | 3.249E-22 | 4.287E-21 | 4.030E-20 |        |
| 4.445E-19      |           |           |           |           |           |           |           |           |        |
| 0U-236 Cf-252  | 8.879E-01 | 0.000E+00 | 4.404E-35 | 2.864E-31 | 3.707E-30 | 8.699E-29 | 4.085E-27 | 1.181E-25 |        |
| 4.408E-24      |           |           |           |           |           |           |           |           |        |
| U-236 Pu-240   | 1.000E+00 | 0.000E+00 | 7.045E-05 | 4.226E-04 | 8.449E-04 | 2.110E-03 | 7.008E-03 | 2.080E-02 |        |
| 6.680E-02      |           |           |           |           |           |           |           |           |        |
| U-236 U-236    | 1.000E+00 | 4.070E-01 | 4.070E-01 | 4.070E-01 | 4.070E-01 | 4.070E-01 | 4.069E-01 | 4.068E-01 |        |
| 4.065E-01      |           |           |           |           |           |           |           |           |        |
| U-236 %S(j):   |           | 4.070E-01 | 4.071E-01 | 4.074E-01 | 4.078E-01 | 4.091E-01 | 4.140E-01 | 4.276E-01 |        |
| 4.733E-01      |           |           |           |           |           |           |           |           |        |
| 0Th-232 Cf-252 | 8.879E-01 | 0.000E+00 | 2.713E-37 | 0.000E+00 | 0.000E+00 | 6.351E-37 | 8.544E-36 | 4.358E-34 |        |
| 5.445E-32      |           |           |           |           |           |           |           |           |        |
| Th-232 Pu-240  | 1.000E+00 | 0.000E+00 | 1.743E-15 | 6.258E-14 | 2.502E-13 | 1.563E-12 | 1.732E-11 | 1.547E-10 |        |
| 1.677E-09      |           |           |           |           |           |           |           |           |        |
| Th-232 Th-232  | 1.000E+00 | 9.880E-03 | 9.880E-03 | 9.880E-03 | 9.880E-03 | 9.880E-03 | 9.880E-03 | 9.880E-03 |        |
| 9.880E-03      |           |           |           |           |           |           |           |           |        |
| Th-232 U-236   | 1.000E+00 | 0.000E+00 | 2.008E-11 | 1.205E-10 | 2.409E-10 | 6.024E-10 | 2.008E-09 | 6.023E-09 |        |
| 2.007E-08      |           |           |           |           |           |           |           |           |        |
| Th-232 %S(j):  |           | 9.880E-03 | 9.880E-03 | 9.880E-03 | 9.880E-03 | 9.880E-03 | 9.880E-03 | 9.880E-03 |        |
| 9.880E-03      |           |           |           |           |           |           |           |           |        |
| 0Ra-228 Cf-252 | 8.879E-01 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 3.491E-34 |        |
| 5.265E-32      |           |           |           |           |           |           |           |           |        |
| Ra-228 Pu-240  | 1.000E+00 | 0.000E+00 | 6.826E-17 | 1.272E-14 | 8.716E-14 | 9.311E-13 | 1.469E-11 | 1.465E-10 |        |

1.650E-09  
 Ra-228 Ra-228 1.000E+00 4.190E+00 3.714E+00 2.033E+00 9.864E-01 1.127E-01 2.438E-05 8.251E-16 0.000E+00  
 Ra-228 Th-232 1.000E+00 0.000E+00 1.122E-03 5.086E-03 7.554E-03 9.614E-03 9.880E-03 9.880E-03  
 Ra-228 U-236 1.000E+00 0.000E+00 1.166E-12 3.473E-11 1.136E-10 4.403E-10 1.841E-09 5.856E-09  
 Ra-228 %S(j): 4.190E+00 3.715E+00 2.038E+00 9.940E-01 1.223E-01 9.904E-03 9.880E-03  
 Th-228 Cf-252 8.879E-01 0.000E+00 4.014E-35 9.763E-35 8.358E-35 9.083E-35 9.873E-35 4.688E-34  
 Th-228 Pu-240 1.000E+00 0.000E+00 5.820E-18 4.857E-15 5.020E-14 7.464E-13 1.384E-11 1.437E-10  
 Th-228 Ra-228 1.000E+00 0.000E+00 1.195E+00 2.332E+00 1.397E+00 1.687E-01 3.653E-05 1.236E-15 0.000E+00  
 Th-228 Th-228 1.000E+00 8.930E-03 6.217E-03 1.017E-03 1.158E-04 1.706E-07 1.647E-18 0.000E+00 0.000E+00  
 Th-228 Th-232 1.000E+00 0.000E+00 1.846E-04 3.257E-03 6.458E-03 9.482E-03 9.880E-03 9.880E-03  
 Th-228 U-236 1.000E+00 0.000E+00 1.307E-13 1.646E-11 7.737E-11 3.871E-10 1.786E-09 5.801E-09  
 Th-228 %S(j): 8.930E-03 1.201E+00 2.336E+00 1.403E+00 1.782E-01 9.916E-03 9.880E-03  
 Cl-36 Cl-36 1.000E+00 2.790E-01 2.790E-01 2.787E-01 2.785E-01 2.777E-01 2.745E-01 2.658E-01  
 2.375E-01

1RESRAD-OFFSITE, Version 2.6

T' Limit = 30 days

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

Individual Nuclide Soil Concentration  
 Parent Nuclide and Thread Fraction Indicated  
 S(j,t), pCi/g

Nuclide Parent THF(i)

| (j)        | (i)        | t=         | 0.000E+00  | 1.000E+00  | 6.000E+00  | 1.200E+01  | 3.000E+01  | 1.000E+02  | 3.000E+02  | 1.000E+03  |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| ffffffffff | ffffffffff | ffffffffff | ffffffffff | ffffffffff | ffffffffff | ffffffffff | ffffffffff | ffffffffff | ffffffffff | ffffffffff |
| Co-60      | Co-60      | 1.000E+00  | 4.860E+00  | 4.261E+00  | 2.208E+00  | 1.003E+00  | 9.407E-02  | 9.450E-06  | 3.571E-17  | 0.000E+00  |
| 0Cs-134    | Cs-134     | 1.000E+00  | 2.620E-06  | 1.872E-06  | 3.490E-07  | 4.647E-08  | 1.097E-10  | 6.611E-21  | 0.000E+00  | 0.000E+00  |
| 0Cs-137    | Cs-137     | 1.000E+00  | 3.050E+03  | 2.980E+03  | 2.655E+03  | 2.311E+03  | 1.525E+03  | 3.026E+02  | 2.978E+00  | 2.818E-07  |
| 0Eu-154    | Eu-154     | 1.000E+00  | 9.920E-03  | 9.169E-03  | 6.184E-03  | 3.855E-03  | 9.340E-04  | 3.765E-06  | 5.423E-13  | 6.146E-37  |
| 0Eu-155    | Eu-155     | 1.000E+00  | 8.720E-03  | 7.583E-03  | 3.771E-03  | 1.631E-03  | 1.318E-04  | 7.439E-09  | 5.411E-21  | 0.000E+00  |
| 0H-3       | H-3        | 1.000E+00  | 3.780E+04  | 3.573E+04  | 2.697E+04  | 1.924E+04  | 6.986E+03  | 1.359E+02  | 1.755E-03  | 1.360E-20  |
| 0Ho-166m   | Ho-166m    | 1.000E+00  | 5.020E-01  | 5.017E-01  | 5.003E-01  | 4.985E-01  | 4.934E-01  | 4.738E-01  | 4.221E-01  | 2.817E-01  |
| 0Na-22     | Na-22      | 1.000E+00  | 1.120E-03  | 8.582E-04  | 2.266E-04  | 4.586E-05  | 3.796E-07  | 3.024E-15  | 2.201E-38  | 0.000E+00  |
| 0Pb-210    | Pb-210     | 1.000E+00  | 2.850E+00  | 2.763E+00  | 2.365E+00  | 1.963E+00  | 1.122E+00  | 1.273E-01  | 2.542E-04  | 9.030E-14  |
| Pb-210     | Pu-238     | 1.000E+00  | 0.000E+00  | 2.118E-13  | 2.609E-10  | 3.982E-09  | 1.360E-07  | 1.061E-05  | 3.282E-04  | 6.570E-03  |
| Pb-210     | Pu-242     | 9.999E-01  | 0.000E+00  | 5.032E-21  | 0.000E+00  | 0.000E+00  | 0.000E+00  | 7.042E-19  | 9.711E-17  | 1.460E-14  |
| Pb-210     | Ra-226     | 1.000E+00  | 0.000E+00  | 1.178E-01  | 6.541E-01  | 1.195E+00  | 2.317E+00  | 3.564E+00  | 3.428E+00  | 2.532E+00  |
| Pb-210     | Th-230     | 1.000E+00  | 0.000E+00  | 5.593E-04  | 1.907E-02  | 7.182E-02  | 3.786E-01  | 2.468E+00  | 9.151E+00  | 2.853E+01  |
| Pb-210     | U-234      | 1.000E+00  | 0.000E+00  | 8.601E-10  | 1.777E-07  | 1.357E-06  | 1.863E-05  | 4.548E-04  | 5.805E-03  | 6.774E-02  |
| Pb-210     | U-238      | 9.999E-01  | 0.000E+00  | 0.000E+00  | 9.664E-13  | 1.477E-11  | 5.193E-10  | 4.540E-08  | 1.910E-06  |            |

8.068E-05

Pb-210 %S(j): 2.850E+00 2.881E+00 3.038E+00 3.230E+00 3.818E+00 6.160E+00 1.259E+01 3.113E+01

0Po-210 Pb-210 1.000E+00 0.000E+00 2.342E+00 2.406E+00 1.997E+00 1.141E+00 1.295E-01 2.586E-04  
9.186E-14

Po-210 Pu-238 1.000E+00 0.000E+00 5.833E-14 1.882E-10 3.359E-09 1.271E-07 1.041E-05 3.266E-04  
6.563E-03

Po-210 Pu-242 9.999E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 6.792E-19 9.635E-17  
1.457E-14

Po-210 Ra-226 1.000E+00 0.000E+00 6.406E-02 5.991E-01 1.150E+00 2.292E+00 3.562E+00 3.429E+00 2.532E+00

Po-210 Th-230 1.000E+00 0.000E+00 2.295E-04 1.599E-02 6.590E-02 3.668E-01 2.449E+00 9.133E+00 2.851E+01

Po-210 U-234 1.000E+00 0.000E+00 2.854E-10 1.376E-07 1.192E-06 1.771E-05 4.486E-04 5.782E-03  
6.767E-02

Po-210 U-238 9.999E-01 0.000E+00 2.790E-15 7.059E-13 1.245E-11 4.849E-10 4.452E-08 1.898E-06  
8.055E-05

Po-210 %S(j): 0.000E+00 2.406E+00 3.021E+00 3.212E+00 3.800E+00 6.142E+00 1.257E+01 3.112E+01

0Pm-147 Pm-147 1.000E+00 1.370E-08 1.052E-08 2.809E-09 5.757E-10 4.956E-12 4.597E-20 5.171E-43 0.000E+00

0Sm-147 Pm-147 1.000E+00 0.000E+00 7.870E-20 2.696E-19 3.248E-19 3.389E-19 3.391E-19 3.391E-19  
3.390E-19

0Pu-238 Pu-238 1.840E-09 2.705E-05 2.684E-05 2.580E-05 2.460E-05 2.134E-05 1.228E-05 2.528E-06  
1.003E-08

Pu-238 Pu-238 1.000E+00 1.470E+04 1.458E+04 1.402E+04 1.337E+04 1.160E+04 6.672E+03 1.374E+03 5.450E+00

Pu-238 %S(j): 1.470E+04 1.458E+04 1.402E+04 1.337E+04 1.160E+04 6.672E+03 1.374E+03 5.450E+00

1RESRAD-OFFSITE, Version 2.6

T' Limit = 30 days

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Parent Dose Report

Title : Industrial No Cap Base

File : INDUSTRIAL NO CAP BASE.ROF

Individual Nuclide Soil Concentration  
Parent Nuclide and Thread Fraction Indicated

| 0Nuclide<br>(j) | Parent<br>(i) | THF(i)    | S(j,t), pCi/g |           |           |           |           |           |           |           |           |
|-----------------|---------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                 |               |           | t=            | 0.000E+00 | 1.000E+00 | 6.000E+00 | 1.200E+01 | 3.000E+01 | 1.000E+02 | 3.000E+02 | 1.000E+03 |
| U-234           | Pu-238        | 1.000E+00 | 0.000E+00     | 4.151E-02 | 2.442E-01 | 4.771E-01 | 1.113E+00 | 2.880E+00 | 4.778E+00 | 5.255E+00 | 5.528E-11 |
| U-234           | Pu-242        | 9.999E-01 | 0.000E+00     | 5.558E-17 | 1.996E-15 | 7.981E-15 | 4.987E-14 | 5.540E-13 | 4.984E-12 |           |           |
| U-234           | U-234         | 1.000E+00 | 4.260E+01     | 4.260E+01 | 4.260E+01 | 4.260E+01 | 4.259E+01 | 4.258E+01 | 4.255E+01 | 4.243E+01 |           |
| U-234           | U-238         | 9.999E-01 | 0.000E+00     | 1.517E-04 | 9.100E-04 | 1.820E-03 | 4.550E-03 | 1.516E-02 | 4.546E-02 |           |           |
| U-234           | %S(j):        |           | 4.260E+01     | 4.264E+01 | 4.284E+01 | 4.308E+01 | 4.371E+01 | 4.548E+01 | 4.737E+01 | 4.783E+01 |           |
| Th-230          | Pu-238        | 1.000E+00 | 0.000E+00     | 1.876E-07 | 6.650E-06 | 2.618E-05 | 1.562E-04 | 1.465E-03 | 8.784E-03 |           |           |
| Th-230          | Pu-242        | 9.999E-01 | 0.000E+00     | 5.463E-21 | 3.420E-20 | 2.841E-19 | 4.492E-18 | 1.662E-16 | 4.484E-15 |           |           |
| Th-230          | Th-230        | 1.000E+00 | 8.370E+01     | 8.370E+01 | 8.370E+01 | 8.369E+01 | 8.368E+01 | 8.362E+01 | 8.347E+01 | 8.295E+01 |           |
| Th-230          | U-234         | 1.000E+00 | 0.000E+00     | 3.835E-04 | 2.301E-03 | 4.601E-03 | 1.150E-02 | 3.832E-02 | 1.148E-01 |           |           |
| Th-230          | U-238         | 9.999E-01 | 0.000E+00     | 6.846E-10 | 2.459E-08 | 9.831E-08 | 6.143E-07 | 6.823E-06 | 6.135E-05 |           |           |
| Th-230          | %S(j):        |           | 8.370E+01     | 8.370E+01 | 8.370E+01 | 8.370E+01 | 8.369E+01 | 8.366E+01 | 8.360E+01 | 8.337E+01 |           |
| Ra-226          | Pu-238        | 1.000E+00 | 0.000E+00     | 2.723E-11 | 5.786E-09 | 4.568E-08 | 6.878E-07 | 2.222E-05 | 4.275E-04 |           |           |
| Ra-226          | Pu-242        | 9.999E-01 | 0.000E+00     | 5.322E-21 | 1.053E-22 | 0.000E+00 | 1.654E-20 | 1.781E-18 | 1.420E-16 |           |           |

|                |           |           |           |           |           |           |           |           |           |  |  |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|
| 1.650E-14      |           |           |           |           |           |           |           |           |           |  |  |
| Ra-226 Ra-226  | 1.000E+00 | 3.850E+00 | 3.848E+00 | 3.840E+00 | 3.830E+00 | 3.800E+00 | 3.687E+00 | 3.381E+00 | 2.496E+00 |  |  |
| Ra-226 Th-230  | 1.000E+00 | 0.000E+00 | 3.625E-02 | 2.173E-01 | 4.340E-01 | 1.081E+00 | 3.547E+00 | 1.019E+01 | 2.929E+01 |  |  |
| Ra-226 U-234   | 1.000E+00 | 0.000E+00 | 8.329E-08 | 2.989E-06 | 1.194E-05 | 7.443E-05 | 8.184E-04 | 7.153E-03 |           |  |  |
| Ra-226 U-238   | 9.999E-01 | 0.000E+00 | 9.598E-14 | 2.132E-11 | 1.702E-10 | 2.653E-09 | 9.748E-08 | 2.574E-06 |           |  |  |
| Ra-226 %S(j):  |           | 3.850E+00 | 3.885E+00 | 4.057E+00 | 4.264E+00 | 4.881E+00 | 7.235E+00 | 1.358E+01 | 3.186E+01 |  |  |
| 0Pu-240 Pu-240 | 1.000E+00 | 2.380E+03 | 2.380E+03 | 2.378E+03 | 2.377E+03 | 2.372E+03 | 2.355E+03 | 2.305E+03 | 2.141E+03 |  |  |
| 0Pu-241 Pu-241 | 2.450E-05 | 9.359E-02 | 8.919E-02 | 7.011E-02 | 5.253E-02 | 2.209E-02 | 7.599E-04 | 5.010E-08 |           |  |  |
| 0Pu-242 Pu-242 | 5.500E-06 | 1.386E-06 | 1.386E-06 | 1.386E-06 | 1.386E-06 | 1.386E-06 | 1.386E-06 | 1.385E-06 |           |  |  |
| Pu-242 Pu-242  | 5.400E-05 | 1.361E-05 | 1.361E-05 | 1.361E-05 | 1.361E-05 | 1.361E-05 | 1.361E-05 | 1.360E-05 |           |  |  |
| Pu-242 %S(j):  |           | 1.499E-05 | 1.499E-05 | 1.499E-05 | 1.499E-05 | 1.499E-05 | 1.499E-05 | 1.499E-05 |           |  |  |
| 0U-238 Pu-242  | 5.400E-05 | 0.000E+00 | 2.111E-15 | 1.267E-14 | 2.533E-14 | 6.333E-14 | 2.111E-13 | 6.330E-13 |           |  |  |
| U-238 Pu-242   | 9.999E-01 | 0.000E+00 | 3.909E-11 | 2.345E-10 | 4.691E-10 | 1.173E-09 | 3.909E-09 | 1.172E-08 |           |  |  |
| U-238 U-238    | 5.400E-05 | 2.889E-03 | 2.889E-03 | 2.889E-03 | 2.889E-03 | 2.889E-03 | 2.889E-03 | 2.888E-03 |           |  |  |
| U-238 %S(j):   |           | 2.889E-03 | 2.889E-03 | 2.889E-03 | 2.889E-03 | 2.889E-03 | 2.889E-03 | 2.888E-03 |           |  |  |
| 0Pu-242 Pu-242 | 9.999E-01 | 2.520E-01 | 2.520E-01 | 2.520E-01 | 2.520E-01 | 2.520E-01 | 2.519E-01 | 2.518E-01 |           |  |  |
| 0Ru-106 Ru-106 | 1.000E+00 | 7.770E-09 | 3.909E-09 | 1.259E-10 | 2.040E-12 | 8.628E-18 | 1.061E-38 | 0.000E+00 | 0.000E+00 |  |  |



|          |        |           |           |           |           |           |           |           |           |           |
|----------|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0Sb-125  | Sb-125 | 7.720E-01 | 4.169E-04 | 3.246E-04 | 9.285E-05 | 2.068E-05 | 2.283E-07 | 5.573E-15 | 9.946E-37 | 0.000E+00 |
| 0Sb-125  | Sb-125 | 2.280E-01 | 1.231E-04 | 9.586E-05 | 2.742E-05 | 6.107E-06 | 6.742E-08 | 1.646E-15 | 2.937E-37 | 0.000E+00 |
| 0Sb-125  | %S(j): |           | 5.400E-04 | 4.204E-04 | 1.203E-04 | 2.679E-05 | 2.957E-07 | 7.219E-15 | 1.288E-36 | 0.000E+00 |
| 0Te-125m | Sb-125 | 2.280E-01 | 0.000E+00 | 9.992E-05 | 2.909E-05 | 6.478E-06 | 7.152E-08 | 1.746E-15 | 3.116E-37 | 0.000E+00 |
| 0Sm-151  | Sm-151 | 1.000E+00 | 2.110E-02 | 2.094E-02 | 2.015E-02 | 1.924E-02 | 1.675E-02 | 9.768E-03 | 2.093E-03 | 9.538E-06 |

1RESRAD-OFFSITE, Version 2.6                      T' Limit = 30 days                      09/19/2012 14:54    Page 103  
Parent Dose Report  
Title : Industrial No Cap Base  
File : INDUSTRIAL NO CAP BASE.ROF

Individual Nuclide Soil Concentration  
Parent Nuclide and Thread Fraction Indicated

| 0Nuclide                                                   | Parent                                                     | THF(i)                                                       | S(j,t), pCi/g                                                |                                                              |                                                              |                                                              |                                                            |                                                            |                                                            |                                                            |                                                            |
|------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|
| (j)                                                        | (i)                                                        |                                                              | t=                                                           | 0.000E+00                                                    | 1.000E+00                                                    | 6.000E+00                                                    | 1.200E+01                                                  | 3.000E+01                                                  | 1.000E+02                                                  | 3.000E+02                                                  | 1.000E+03                                                  |
| 00000000                                                   | 00000000                                                   | 0000000000                                                   | 0000000000                                                   | 0000000000                                                   | 0000000000                                                   | 0000000000                                                   | 0000000000                                                 | 0000000000                                                 | 0000000000                                                 | 0000000000                                                 | 0000000000                                                 |
| 0000000000                                                 | 0000000000                                                 | 000000000000                                                 | 000000000000                                                 | 000000000000                                                 | 000000000000                                                 | 000000000000                                                 | 000000000000                                               | 000000000000                                               | 000000000000                                               | 000000000000                                               | 000000000000                                               |
| 000000000000                                               | 000000000000                                               | 00000000000000                                               | 00000000000000                                               | 00000000000000                                               | 00000000000000                                               | 00000000000000                                               | 00000000000000                                             | 00000000000000                                             | 00000000000000                                             | 00000000000000                                             | 00000000000000                                             |
| 00000000000000                                             | 00000000000000                                             | 0000000000000000                                             | 0000000000000000                                             | 0000000000000000                                             | 0000000000000000                                             | 0000000000000000                                             | 0000000000000000                                           | 0000000000000000                                           | 0000000000000000                                           | 0000000000000000                                           | 0000000000000000                                           |
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THF(i) is the thread fraction of the parent nuclide.

1RESRAD-OFFSITE, Version 2.6      T' Limit = 30 days      09/19/2012 14:54 Page 104  
Parent Dose Report  
Title : Industrial No Cap Base  
File : INDUSTRIAL NO CAP BASE.ROF

Run Time Information

Res0Calc.EXE execution began at 14:54 on 09/19/2012

Res0Calc.EXE execution ended at 14:54 on 09/19/2012

Res0Calc.EXE execution time 31.874 seconds