



## 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 Cap Hydro

File : INDUSTRIAL CAP HYDRO.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 Cap Hydro

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## 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
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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File : INDUSTRIAL CAP HYDRO.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 CAP HYDRO.ROF

Default Library: ICRP 72 (Adult)

Menu	Parameter	Value	Default	Parameter Name
0				



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

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Parent Dose Report

Title : Industrial Cap Hydro

File : INDUSTRIAL CAP HYDRO.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	~	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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Title : Industrial Cap Hydro

File : INDUSTRIAL CAP HYDRO.ROF

#### 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	≥	Name

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fffff~ffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff
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
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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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
						≥
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
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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## 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	≥	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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Parent Dose Report

Title : Industrial Cap Hydro

File : INDUSTRIAL CAP HYDRO.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	≥		≥	≥	≥		
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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## Parent Dose Report

Title : Industrial Cap Hydro

File : INDUSTRIAL CAP HYDRO.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	fffff	fffff	fffff	fffff	fffff
TF	≥	Co-60 , fish	≥	3.000E+02	≥	3.000E+02	≥	BIOFA(22,1)
TF	≥	Co-60 , crustacea and mollusks	≥	2.000E+02	≥	2.000E+02	≥	BIOFA(22,2)
TF	≥		≥		≥		≥	
TF	≥	Cs-134 , fish	≥	2.000E+03	≥	2.000E+03	≥	BIOFA(23,1)
TF	≥	Cs-134 , crustacea and mollusks	≥	1.000E+02	≥	1.000E+02	≥	BIOFA(23,2)
TF	≥		≥		≥		≥	
TF	≥	Cs-137+D , fish	≥	2.000E+03	≥	2.000E+03	≥	BIOFA(24,1)
TF	≥	Cs-137+D , crustacea and mollusks	≥	1.000E+02	≥	1.000E+02	≥	BIOFA(24,2)
TF	≥		≥		≥		≥	
TF	≥	Eu-154 , fish	≥	5.000E+01	≥	5.000E+01	≥	BIOFA(25,1)
TF	≥	Eu-154 , crustacea and mollusks	≥	1.000E+03	≥	1.000E+03	≥	BIOFA(25,2)
TF	≥		≥		≥		≥	
TF	≥	Eu-155 , fish	≥	5.000E+01	≥	5.000E+01	≥	BIOFA(26,1)
TF	≥	Eu-155 , crustacea and mollusks	≥	1.000E+03	≥	1.000E+03	≥	BIOFA(26,2)
TF	≥		≥		≥		≥	
TF	≥	H-3 , fish	≥	1.000E+00	≥	1.000E+00	≥	BIOFA(27,1)
TF	≥	H-3 , crustacea and mollusks	≥	1.000E+00	≥	1.000E+00	≥	BIOFA(27,2)
TF	≥		≥		≥		≥	
TF	≥	Ho-166m , fish	≥	2.500E+01	≥	2.500E+01	≥	BIOFA(28,1)
TF	≥	Ho-166m , crustacea and mollusks	≥	1.000E+03	≥	1.000E+03	≥	BIOFA(28,2)
TF	≥		≥		≥		≥	
TF	≥	Na-22 , fish	≥	2.000E+01	≥	2.000E+01	≥	BIOFA(29,1)
TF	≥	Na-22 , crustacea and mollusks	≥	2.000E+02	≥	2.000E+02	≥	BIOFA(29,2)

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 Cap Hydro

File : INDUSTRIAL CAP HYDRO.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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Parent Dose Report

Title : Industrial Cap Hydro

File : INDUSTRIAL CAP HYDRO.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	fffff	fffff	fffff	fffff
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)		

[illegible]

File : INDUSTRIAL CAP HYDRO.ROF

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

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 fffff

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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## 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									
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
fffff~	fffff~	fffff~	fffff~	fffff~	fffff~
fffff	fffff	fffff	fffff	fffff	fffff
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	≥ 5.894E-07	≥ 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	≥ 5.894E-07	≥ 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	≥ 3.650E-08	≥ ALEACH(3)
DCLR ≥ Solubility constant	≥ 0.000E+00	≥ 0.000E+00	≥ not used	≥ SOLUB0(3)

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## Site-Specific Parameter Summary (continued)

0	≥	≥	User	≥	≥	RESRAD	≥		
Parameter									
Menu	≥	Parameter	≥	Input	≥	Default	≥ computed	≥	Name
~~~~~									
~~~~~									
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	≥	5.894E-07	≥ 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	≥ 5.894E-07	≥ 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	≥ 5.894E-07	≥ 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	≥ 2.005E-03	≥ 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	≥ 1.570E-04	≥ 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 ≥ 5.097E-06 ≥ ALEACH(23)
DCLR ≥ Solubility constant	≥ 0.000E+00 ≥ 0.000E+00 ≥ not used ≥ SOLUB0(23)
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## Site-Specific Parameter Summary (continued)

0 ≥	≥ User	≥ RESRAD	≥
Parameter			
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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) DCNUCSWB(24)	≥ 1.500E+01 ≥ 4.600E+03 ≥	---	≥
DCLR ≥ Agricultural area 1 (cm**3/g) DCNUCOF(24,1)	≥ 1.500E+01 ≥ 4.600E+03 ≥	---	≥
DCLR ≥ Agricultural area 2 (cm**3/g) DCNUCOF(24,2)	≥ 1.500E+01 ≥ 4.600E+03 ≥	---	≥
DCLR ≥ Agricultural area 3 (cm**3/g) DCNUCOF(24,3)	≥ 1.500E+01 ≥ 4.600E+03 ≥	---	≥
DCLR ≥ Agricultural area 4 (cm**3/g) DCNUCOF(24,4)	≥ 1.500E+01 ≥ 4.600E+03 ≥	---	≥
DCLR ≥ Offsite Dwelling (cm**3/g) DCNUCDWE(24)	≥ 1.500E+01 ≥ 4.600E+03 ≥	---	≥
DCLR ≥ Leach rate (/yr)	≥ 0.000E+00 ≥ 0.000E+00 ≥ 5.097E-06	≥ ALEACH(24)	
DCLR ≥ Solubility constant ≥	≥ 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) DCNUCU(25,1)	≥ 5.000E+01 ≥ 8.250E+02 ≥	---	≥
DCLR ≥ Unsaturated zone 2 (cm**3/g) DCNUCU(25,2)	≥ 5.000E+01 ≥ 8.250E+02 ≥	---	≥
DCLR ≥ Unsaturated zone 3 (cm**3/g) DCNUCU(25,3)	≥ 5.000E+01 ≥ 8.250E+02 ≥	---	≥
DCLR ≥ Unsaturated zone 4 (cm**3/g) 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) DCNUCSWB(25)	≥ 5.000E+01 ≥ 8.250E+02 ≥	---	≥
DCLR ≥ Agricultural area 1 (cm**3/g) DCNUCOF(25,1)	≥ 5.000E+01 ≥ 8.250E+02 ≥	---	≥
DCLR ≥ Agricultural area 2 (cm**3/g) 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	≥ 1.532E-06	≥ 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	≥ 1.532E-06	≥ ALEACH(26)	
DCLR ≥ Solubility constant	≥ 0.000E+00	≥ 0.000E+00	≥ not used	≥ SOLUB0(26)	

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0	≥	≥	User	≥	RESRAD	≥				
Parameter										
Menu	≥	Parameter	≥	Input	≥	Default	≥	computed	≥	Name
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fffff										
DCLR	≥	Distribution coefficients for H-3	≥		≥		≥		≥	
DCLR	≥	Contaminated zone (cm**3/g)	≥	0.000E+00	≥	0.000E+00	≥	---	≥	DCNUCC(27)
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	≥	---	≥	DCNUCS(27)
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	≥ 2.005E-03	≥ 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	≥ 3.065E-07	≥ 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	≥ 7.635E-06	≥ ALEACH(29)
DCLR ≥ Solubility constant	≥ 0.000E+00	≥ 0.000E+00	≥ not used	≥ SOLUB0(29)

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Parameter					
Menu ≥	Parameter	≥ Input	≥ Default	≥ computed	≥ Name



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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	≥ 1.017E-05	≥ 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	≥ 3.061E-06	≥ 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 ≥ 1.532E-06 ≥ 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
fffff~	fffff	fffff	fffff	fffff	fffff	fffff	fffff
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	≥ 1.079E-07	≥ 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) DCNUCOF(37,2)	≥ 7.100E+02 ≥ 2.000E+03 ≥ --- ≥
DCLR ≥ Agricultural area 3 (cm**3/g) DCNUCOF(37,3)	≥ 7.100E+02 ≥ 2.000E+03 ≥ --- ≥
DCLR ≥ Agricultural area 4 (cm**3/g) DCNUCOF(37,4)	≥ 7.100E+02 ≥ 2.000E+03 ≥ --- ≥
DCLR ≥ Offsite Dwelling (cm**3/g) DCNUCDWE(37)	≥ 7.100E+02 ≥ 2.000E+03 ≥ --- ≥
DCLR ≥ Leach rate (/yr)	≥ 0.000E+00 ≥ 0.000E+00 ≥ 1.079E-07 ≥ ALEACH(37)
DCLR ≥ Solubility constant ≥	≥ 0.000E+00 ≥ 0.000E+00 ≥ not used ≥ SOLUB0(37) ≥ ≥ ≥ ≥
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) DCNUCU(38,1)	≥ 4.100E+00 ≥ 2.000E+03 ≥ --- ≥
DCLR ≥ Unsaturated zone 2 (cm**3/g) DCNUCU(38,2)	≥ 4.100E+00 ≥ 2.000E+03 ≥ --- ≥
DCLR ≥ Unsaturated zone 3 (cm**3/g) DCNUCU(38,3)	≥ 4.100E+00 ≥ 2.000E+03 ≥ --- ≥
DCLR ≥ Unsaturated zone 4 (cm**3/g) 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) DCNUCSWB(38)	≥ 7.100E+02 ≥ 2.000E+03 ≥ --- ≥
DCLR ≥ Agricultural area 1 (cm**3/g) DCNUCOF(38,1)	≥ 7.100E+02 ≥ 2.000E+03 ≥ --- ≥
DCLR ≥ Agricultural area 2 (cm**3/g) DCNUCOF(38,2)	≥ 7.100E+02 ≥ 2.000E+03 ≥ --- ≥
DCLR ≥ Agricultural area 3 (cm**3/g) DCNUCOF(38,3)	≥ 7.100E+02 ≥ 2.000E+03 ≥ --- ≥
DCLR ≥ Agricultural area 4 (cm**3/g) 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 ≥ 1.079E-07 ≥ ALEACH(38)  
 DCLR ≥ Solubility constant ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used ≥ SOLUB0(38)  
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0	≥	≥ User	≥	≥ RESRAD	≥
Parameter					
Menu ≥	Parameter	≥ Input	≥ Default	≥ computed	≥ Name
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fffff	fffff	fffff	fffff	fffff	fffff
DCLR ≥	Distribution coefficients for Pu-241	≥	≥	≥	≥
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	≥ 1.079E-07	≥ 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	≥ 1.079E-07	≥ 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	≥ 7.664E-08	≥ ALEACH(48)
DCLR ≥ Solubility constant	≥ 0.000E+00	≥ 0.000E+00	≥ not used	≥ SOLUB0(48)
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Parent Dose Report				
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## Site-Specific Parameter Summary (continued)

0	≥	≥ User	≥	≥ RESRAD	≥
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Parameter Menu ≥	Parameter	≥	Input	≥	Default	≥	computed	≥	Name
fffff~ff~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	≥	7.664E-08	≥	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	≥ 2.005E-03	≥ 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	≥ 2.005E-03	≥ ALEACH(51)	
DCLR ≥ Solubility constant	≥ 0.000E+00	≥ 0.000E+00	≥ not used	≥ SOLUB0(51)	
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0 ≥					
Parameter	≥ User	≥	≥ RESRAD	≥	
Menu ≥	Parameter	≥ Input	≥ Default	≥ computed	≥ Name
fffff~ff~ffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff 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	≥ 1.532E-06	≥	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	≥ 1.532E-06	≥ 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 ≥ 1.532E-06 ≥ ALEACH(56)
DCLR ≥ Solubility constant	≥ 0.000E+00 ≥ 0.000E+00 ≥ not used ≥ SOLUB0(56)
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## Site-Specific Parameter Summary (continued)

0 ≥	≥ User ≥	≥ RESRAD ≥
Parameter		
Menu ≥	≥ Input ≥	≥ Default ≥ computed ≥ Name
fffff~ff~ffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff fffff		
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) DCNUCOF(57,2)	≥ 7.000E+01 ≥ 3.000E+01 ≥ --- ≥
DCLR ≥ Agricultural area 3 (cm**3/g) DCNUCOF(57,3)	≥ 7.000E+01 ≥ 3.000E+01 ≥ --- ≥
DCLR ≥ Agricultural area 4 (cm**3/g) DCNUCOF(57,4)	≥ 7.000E+01 ≥ 3.000E+01 ≥ --- ≥
DCLR ≥ Offsite Dwelling (cm**3/g) DCNUCDWE(57)	≥ 7.000E+01 ≥ 3.000E+01 ≥ --- ≥
DCLR ≥ Leach rate (/yr)	≥ 0.000E+00 ≥ 0.000E+00 ≥ 1.094E-06 ≥ ALEACH(57)
DCLR ≥ Solubility constant ≥	≥ 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) DCNUCU(59,1)	≥ 1.000E+04 ≥ 6.000E+04 ≥ --- ≥
DCLR ≥ Unsaturated zone 2 (cm**3/g) DCNUCU(59,2)	≥ 1.000E+04 ≥ 6.000E+04 ≥ --- ≥
DCLR ≥ Unsaturated zone 3 (cm**3/g) DCNUCU(59,3)	≥ 1.000E+04 ≥ 6.000E+04 ≥ --- ≥
DCLR ≥ Unsaturated zone 4 (cm**3/g) 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) DCNUCSWB(59)	≥ 1.000E+04 ≥ 6.000E+04 ≥ --- ≥
DCLR ≥ Agricultural area 1 (cm**3/g) DCNUCOF(59,1)	≥ 1.000E+04 ≥ 6.000E+04 ≥ --- ≥
DCLR ≥ Agricultural area 2 (cm**3/g) DCNUCOF(59,2)	≥ 1.000E+04 ≥ 6.000E+04 ≥ --- ≥
DCLR ≥ Agricultural area 3 (cm**3/g) DCNUCOF(59,3)	≥ 1.000E+04 ≥ 6.000E+04 ≥ --- ≥
DCLR ≥ Agricultural area 4 (cm**3/g) 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	≥ 7.664E-09	≥ 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	≥ 7.664E-09	≥ ALEACH(61)
DCLR ≥ Solubility constant	≥ 0.000E+00	≥ 0.000E+00	≥ not used	≥ SOLUB0(61)

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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
	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	≥ 7.664E-09	≥ 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	≥ 2.905E-05	≥ 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)	≥ 2.400E+00	≥ 5.000E+01	≥ ---	≥
DCNUCU(64,3)				
DCLR ≥ Unsaturated zone 4 (cm**3/g)	≥ 0.000E+00	≥ 5.000E+01	≥ ---	≥
DCNUCU(64,4)				
DCLR ≥ Saturated zone (cm**3/g)	≥ 0.000E+00	≥ 5.000E+01	≥ ---	≥ DCNUCS(64)
DCLR ≥ Sediment in surface water body (cm**3/g)	≥ 2.600E+00	≥ 5.000E+01	≥ ---	≥
DCNUCSWB(64)				
DCLR ≥ Agricultural area 1 (cm**3/g)	≥ 2.600E+00	≥ 5.000E+01	≥ ---	≥
DCNUCOF(64,1)				
DCLR ≥ Agricultural area 2 (cm**3/g)	≥ 2.600E+00	≥ 5.000E+01	≥ ---	≥
DCNUCOF(64,2)				
DCLR ≥ Agricultural area 3 (cm**3/g)	≥ 2.600E+00	≥ 5.000E+01	≥ ---	≥
DCNUCOF(64,3)				
DCLR ≥ Agricultural area 4 (cm**3/g)	≥ 2.600E+00	≥ 5.000E+01	≥ ---	≥
DCNUCOF(64,4)				
DCLR ≥ Offsite Dwelling (cm**3/g)	≥ 2.600E+00	≥ 5.000E+01	≥ ---	≥
DCNUCDWE(64)				
DCLR ≥ Leach rate (/yr)	≥ 0.000E+00	≥ 0.000E+00	≥ 2.905E-05	≥ ALEACH(64)
DCLR ≥ Solubility constant	≥ 0.000E+00	≥ 0.000E+00	≥ not used	≥ SOLUB0(64)
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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	≥ 2.905E-05	≥ 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	≥ 2.905E-05	≥ 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 ≥ 2.905E-05 ≥ ALEACH(67)  
 DCLR ≥ Solubility constant ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used ≥ SOLUB0(67)  
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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							
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	≥ 3.650E-08	≥ 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	≥ 1.532E-06	≥ 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	≥ 1.532E-06	≥ ALEACH(16)
DCLR ≥ Solubility constant	≥ 0.000E+00	≥ 0.000E+00	≥ not used	≥ SOLUB0(16)

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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	≥ 1.532E-06	≥ 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	≥ 1.532E-06	≥ 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	≥ ---	≥

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Parameter									
Menu	≥	Parameter	≥	Input	≥	Default	≥	computed	≥

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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	≥ 1.532E-06	≥ 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	≥ 1.532E-06	≥ 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)				

DCLR ≥ Agricultural area 1 (cm**3/g)	≥ 5.500E+03 ≥ 5.000E+01 ≥ --- ≥
DCNUCOF(31,1)	
DCLR ≥ Agricultural area 2 (cm**3/g)	≥ 5.500E+03 ≥ 5.000E+01 ≥ --- ≥
DCNUCOF(31,2)	
DCLR ≥ Agricultural area 3 (cm**3/g)	≥ 5.500E+03 ≥ 5.000E+01 ≥ --- ≥
DCNUCOF(31,3)	
DCLR ≥ Agricultural area 4 (cm**3/g)	≥ 5.500E+03 ≥ 5.000E+01 ≥ --- ≥
DCNUCOF(31,4)	
DCLR ≥ Offsite Dwelling (cm**3/g)	≥ 5.500E+03 ≥ 5.000E+01 ≥ --- ≥
DCNUCDWE(31)	
DCLR ≥ Leach rate (/yr)	≥ 0.000E+00 ≥ 0.000E+00 ≥ 1.394E-08 ≥ ALEACH(31)
DCLR ≥ Solubility constant	≥ 0.000E+00 ≥ 0.000E+00 ≥ not used ≥ SOLUB0(31)
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0 ≥	≥ User ≥	≥ RESRAD ≥
Parameter	≥ Input ≥	≥ Default ≥
Menu ≥	Parameter	≥ computed ≥
		Name
fffff~ffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff		
fffff		
DCLR ≥ Distribution coefficients for progeny Po-210	≥	≥
DCLR ≥ Contaminated zone (cm**3/g)	≥ 1.000E+01 ≥ 1.000E+01 ≥	≥ DCNUCC(34)
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	≥ 7.635E-06	≥ 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	≥ 1.079E-07	≥	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 ≥ 1.079E-07 ≥ ALEACH(46)  
 DCLR ≥ Solubility constant ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used ≥ SOLUB0(46)  
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0 ≥	≥ User	≥	≥ RESRAD	≥
Parameter	Input	Default	computed	Name
fffff~ffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff 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	≥ 1.079E-07	≥ 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	≥ 1.532E-06	≥ 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	≥ 2.005E-03	≥ ALEACH(58)
DCLR ≥ Solubility constant	≥ 0.000E+00	≥ 0.000E+00	≥ not used	≥ SOLUB0(58)
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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	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	≥	7.664E-09	≥	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 SOURCEXY(2)	≥ 1.200E+02 ≥ 1.000E+02 ≥	---	≥
LYOT ≥ Smaller X coordinate of Agricultural Area 1 AGRIX(1,1)	≥ 0.000E+00 ≥ 3.438E+01 ≥	---	≥
LYOT ≥ Larger X coordinate of Agricultural Area 1 AGRIX(2,1)	≥ 1.750E+02 ≥ 6.563E+01 ≥	---	≥
LYOT ≥ Smaller Y coordinate of Agricultural Area 1 AGRIX(3,1)	≥ 0.000E+00 ≥ 2.340E+02 ≥	---	≥
LYOT ≥ Larger Y coordinate of Agricultural Area 1 AGRIX(4,1)	≥ 1.200E+02 ≥ 2.660E+02 ≥	---	≥
LYOT ≥ Smaller X coordinate of Agricultural Area 2 AGRIX(1,2)	≥ 0.000E+00 ≥ 3.438E+01 ≥	---	≥
LYOT ≥ Larger X coordinate of Agricultural Area 2 AGRIX(2,2)	≥ 1.750E+02 ≥ 6.563E+01 ≥	---	≥
LYOT ≥ Smaller Y coordinate of Agricultural Area 2 AGRIX(3,2)	≥ 0.000E+00 ≥ 2.680E+02 ≥	---	≥
LYOT ≥ Larger Y coordinate of Agricultural Area 2 AGRIX(4,2)	≥ 1.200E+02 ≥ 3.000E+02 ≥	---	≥
LYOT ≥ Smaller X coordinate of Agricultural Area 3 AGRIX(1,3)	≥ 0.000E+00 ≥ 0.000E+00 ≥	---	≥
LYOT ≥ Larger X coordinate of Agricultural Area 3 AGRIX(2,3)	≥ 1.750E+02 ≥ 1.000E+02 ≥	---	≥
LYOT ≥ Smaller Y coordinate of Agricultural Area 3 AGRIX(3,3)	≥ 0.000E+00 ≥ 4.500E+02 ≥	---	≥
LYOT ≥ Larger Y coordinate of Agricultural Area 3 AGRIX(4,3)	≥ 1.200E+02 ≥ 5.500E+02 ≥	---	≥
LYOT ≥ Smaller X coordinate of Agricultural Area 4 AGRIX(1,4)	≥ 0.000E+00 ≥ 0.000E+00 ≥	---	≥
LYOT ≥ Larger X coordinate of Agricultural Area 4 AGRIX(2,4)	≥ 1.750E+02 ≥ 1.000E+02 ≥	---	≥
LYOT ≥ Smaller Y coordinate of Agricultural Area 4 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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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)	≥ 4.600E-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	≥ 9.980E-01	≥ 5.000E-01	≥ ---	≥ EVAPTR
PRCZ ≥ Runoff coefficient	≥ 2.500E-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)	≥ 3.000E+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~	fffff~	fffff~	fffff~	fffff~	fffff~
fffff	fffff	fffff	fffff	fffff	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	≥ 9.980E-01	≥ 5.000E-01	≥ ---	≥ EVAPTRN(1)	
AGRI ≥ Runoff coefficient in Agricultural Area 1	≥ 2.500E-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 ≥ --- ≥

## CONVPRACT(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 ≥ 9.980E-01 ≥ 5.000E-01 ≥ --- ≥ EVAPTRN(2)

AGRI ≥ Runoff coefficient in Agricultural Area 2 ≥ 2.500E-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 ≥ --- ≥

## CONVPRACT(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 ≥ 9.980E-01 ≥ 5.000E-01 ≥ --- ≥ EVAPTRN(3)

AGRI ≥ Runoff coefficient in Agricultural Area 3 ≥ 2.500E-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

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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	≥ 9.980E-01	≥ 5.000E-01	≥	---	≥
EVAPTRNDWELL					
DWEL ≥ Runoff coefficient in Offsite dwelling site	≥ 2.500E-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	≥ 1.248E-05	≥ 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	≥ 4.000E-01	≥ 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)

Site-Specific Parameter Summary (continued)					
Parameter Menu ≥	Parameter	≥ User	≥ Default	≥ RESRAD	≥ Name
<i>~~~~~</i>					
AIRT ≥ Joint Frequency in N Sector		≥	≥	≥	≥
AIRT ≥ for wind speed class 2 and stability class A DFREQ(2,1,1)		≥ 1.190E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 2 and stability class B DFREQ(2,2,1)		≥ 1.290E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 2 and stability class C DFREQ(2,3,1)		≥ 5.400E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 2 and stability class D DFREQ(2,4,1)		≥ 2.157E-02	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 2 and stability class E DFREQ(2,5,1)		≥ 7.290E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 2 and stability class F DFREQ(2,6,1)		≥	≥	≥	≥
AIRT ≥ Joint Frequency in N Sector		≥	≥	≥	≥
AIRT ≥ for wind speed class 3 and stability class A DFREQ(3,1,1)		≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 3 and stability class B DFREQ(3,2,1)		≥ 1.000E-05	≥ 0.000E+00	≥ ---	≥

AIRT ≥ for wind speed class 3 and stability class C DFREQ(3,3,1)	≥ 1.200E-03 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 3 and stability class D DFREQ(3,4,1)	≥ 3.140E-02 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 3 and stability class E DFREQ(3,5,1)	≥ 1.800E-03 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 3 and stability class F 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 DFREQ(4,1,1)	≥ 0.000E+00 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 4 and stability class B DFREQ(4,2,1)	≥ 0.000E+00 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 4 and stability class C DFREQ(4,3,1)	≥ 2.000E-05 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 4 and stability class D DFREQ(4,4,1)	≥ 8.450E-03 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 4 and stability class E DFREQ(4,5,1)	≥ 0.000E+00 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 4 and stability class F 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 DFREQ(5,1,1)	≥ 0.000E+00 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 5 and stability class B DFREQ(5,2,1)	≥ 0.000E+00 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 5 and stability class C DFREQ(5,3,1)	≥ 0.000E+00 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 5 and stability class D 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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Parent Dose Report					

Title : Industrial Cap Hydro  
File : INDUSTRIAL CAP HYDRO.ROF

## Site-Specific Parameter Summary (continued)

0	≥	≥	User	≥	RESRAD	≥				
Parameter										
Menu	≥	Parameter	≥	Input	≥	Default	≥	computed	≥	Name
~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ ~~~~~ 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AIRT ≥ for wind speed class 3 and stability class E DFREQ(3,5,2)	≥ 3.590E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 3 and stability class F 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 DFREQ(4,1,2)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class B DFREQ(4,2,2)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class C DFREQ(4,3,2)	≥ 1.000E-05	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class D DFREQ(4,4,2)	≥ 1.041E-02	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class E DFREQ(4,5,2)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class F 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 DFREQ(5,1,2)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 5 and stability class B DFREQ(5,2,2)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 5 and stability class C DFREQ(5,3,2)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 5 and stability class D DFREQ(5,4,2)	≥ 1.480E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 5 and stability class E DFREQ(5,5,2)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 5 and stability class F 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 DFREQ(6,1,2)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class B DFREQ(6,2,2)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class C DFREQ(6,3,2)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class D DFREQ(6,4,2)	≥ 8.000E-05	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class E DFREQ(6,5,2)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class F 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 DFREQ(1,1,3)	≥ 5.400E-04	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 1 and stability class B DFREQ(1,2,3)	≥ 1.000E-04	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 1 and stability class C DFREQ(1,3,3)	≥ 2.500E-04	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 1 and stability class D DFREQ(1,4,3)	≥ 3.890E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 1 and stability class E DFREQ(1,5,3)	≥ 1.730E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 1 and stability class F DFREQ(1,6,3)	≥ 6.140E-03	≥ 0.000E+00	≥ ---	≥

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Parent Dose Report

Title : Industrial Cap Hydro

File : INDUSTRIAL CAP HYDRO.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 DFREQ(4,1,3)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class B DFREQ(4,2,3)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class C DFREQ(4,3,3)	≥ 1.000E-05	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class D DFREQ(4,4,3)	≥ 1.176E-02	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class E DFREQ(4,5,3)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class F 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 DFREQ(5,1,3)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 5 and stability class B DFREQ(5,2,3)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 5 and stability class C DFREQ(5,3,3)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 5 and stability class D DFREQ(5,4,3)	≥ 2.460E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 5 and stability class E DFREQ(5,5,3)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 5 and stability class F 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 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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## Site-Specific Parameter Summary (continued)

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

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

AIRT ≥ for wind speed class 4 and stability class B DFREQ(4,2,4)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class C DFREQ(4,3,4)	≥ 1.000E-05	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class D DFREQ(4,4,4)	≥ 1.388E-02	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class E DFREQ(4,5,4)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class F 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 DFREQ(5,1,4)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 5 and stability class B DFREQ(5,2,4)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 5 and stability class C DFREQ(5,3,4)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 5 and stability class D DFREQ(5,4,4)	≥ 3.630E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 5 and stability class E DFREQ(5,5,4)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 5 and stability class F 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 DFREQ(6,1,4)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class B DFREQ(6,2,4)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class C 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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0	≥		≥	User	≥		≥	RESRAD	≥
Parameter									
Menu	≥	Parameter	≥	Input	≥	Default	≥	computed	≥
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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 DFREQ(4,4,5)	≥ 1.553E-02 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 4 and stability class E DFREQ(4,5,5)	≥ 0.000E+00 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 4 and stability class F 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 DFREQ(5,1,5)	≥ 0.000E+00 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 5 and stability class B DFREQ(5,2,5)	≥ 0.000E+00 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 5 and stability class C DFREQ(5,3,5)	≥ 0.000E+00 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 5 and stability class D DFREQ(5,4,5)	≥ 4.250E-03 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 5 and stability class E DFREQ(5,5,5)	≥ 0.000E+00 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 5 and stability class F 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 DFREQ(6,1,5)	≥ 0.000E+00 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 6 and stability class B DFREQ(6,2,5)	≥ 0.000E+00 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 6 and stability class C DFREQ(6,3,5)	≥ 0.000E+00 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 6 and stability class D DFREQ(6,4,5)	≥ 7.500E-04 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 6 and stability class E 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

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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 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 DFREQ(5,1,6)	≥ 0.000E+00	≥ 0.000E+00	≥	---	≥
AIRT ≥ for wind speed class 5 and stability class B DFREQ(5,2,6)	≥ 0.000E+00	≥ 0.000E+00	≥	---	≥
AIRT ≥ for wind speed class 5 and stability class C DFREQ(5,3,6)	≥ 0.000E+00	≥ 0.000E+00	≥	---	≥
AIRT ≥ for wind speed class 5 and stability class D DFREQ(5,4,6)	≥ 4.700E-03	≥ 0.000E+00	≥	---	≥
AIRT ≥ for wind speed class 5 and stability class E DFREQ(5,5,6)	≥ 0.000E+00	≥ 0.000E+00	≥	---	≥
AIRT ≥ for wind speed class 5 and stability class F 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 DFREQ(6,1,6)	≥ 0.000E+00	≥ 0.000E+00	≥	---	≥
AIRT ≥ for wind speed class 6 and stability class B DFREQ(6,2,6)	≥ 0.000E+00	≥ 0.000E+00	≥	---	≥
AIRT ≥ for wind speed class 6 and stability class C DFREQ(6,3,6)	≥ 0.000E+00	≥ 0.000E+00	≥	---	≥
AIRT ≥ for wind speed class 6 and stability class D DFREQ(6,4,6)	≥ 1.510E-03	≥ 0.000E+00	≥	---	≥
AIRT ≥ for wind speed class 6 and stability class E DFREQ(6,5,6)	≥ 0.000E+00	≥ 0.000E+00	≥	---	≥
AIRT ≥ for wind speed class 6 and stability class F 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
~~~~~							
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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 DFREQ(5,1,7)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 5 and stability class B DFREQ(5,2,7)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 5 and stability class C DFREQ(5,3,7)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 5 and stability class D DFREQ(5,4,7)	≥ 2.050E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 5 and stability class E DFREQ(5,5,7)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 5 and stability class F 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 DFREQ(6,1,7)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class B DFREQ(6,2,7)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class C DFREQ(6,3,7)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class D DFREQ(6,4,7)	≥ 6.000E-04	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class E DFREQ(6,5,7)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class F 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 DFREQ(1,1,8)	≥ 5.200E-04	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 1 and stability class B 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
~~~~~							
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 DFREQ(3,1,8)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 3 and stability class B DFREQ(3,2,8)	≥ 2.000E-05	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 3 and stability class C DFREQ(3,3,8)	≥ 2.200E-04	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 3 and stability class D DFREQ(3,4,8)	≥ 4.810E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 3 and stability class E DFREQ(3,5,8)	≥ 1.500E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 3 and stability class F 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 DFREQ(4,1,8)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class B DFREQ(4,2,8)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class C DFREQ(4,3,8)	≥ 1.000E-05	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class D DFREQ(4,4,8)	≥ 1.320E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class E DFREQ(4,5,8)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class F 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 DFREQ(5,1,8)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 5 and stability class B DFREQ(5,2,8)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥

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

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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 DFREQ(5,5,9)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 5 and stability class F 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 DFREQ(6,1,9)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class B DFREQ(6,2,9)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class C DFREQ(6,3,9)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class D DFREQ(6,4,9)	≥ 1.000E-05	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class E DFREQ(6,5,9)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class F 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 DFREQ(1,1,10)	≥ 1.280E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 1 and stability class B DFREQ(1,2,10)	≥ 3.600E-04	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 1 and stability class C DFREQ(1,3,10)	≥ 6.800E-04	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 1 and stability class D DFREQ(1,4,10)	≥ 4.340E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 1 and stability class E DFREQ(1,5,10)	≥ 1.400E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 1 and stability class F DFREQ(1,6,10)	≥ 4.370E-03	≥ 0.000E+00	≥ ---	≥

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≥		User	≥		RESRAD	≥
Parameter						
Menu ≥	Parameter	≥ Input	≥ Default	≥ computed	≥	Name
<i>ffffff~fffffffffffffffffffffffffffffffffffffffffffff~fffffffffff~ffffffffffff~ffffffffffff~ffffffffffff ffffff</i>						
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 DFREQ(6,1,10)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class B DFREQ(6,2,10)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class C DFREQ(6,3,10)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class D DFREQ(6,4,10)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class E DFREQ(6,5,10)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class F 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 DFREQ(1,1,11)	≥ 1.910E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 1 and stability class B DFREQ(1,2,11)	≥ 5.800E-04	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 1 and stability class C DFREQ(1,3,11)	≥ 7.500E-04	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 1 and stability class D DFREQ(1,4,11)	≥ 4.290E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 1 and stability class E DFREQ(1,5,11)	≥ 9.900E-04	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 1 and stability class F DFREQ(1,6,11)	≥ 2.530E-03	≥ 0.000E+00	≥ ---	≥

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0	≥	≥	User	≥	≥	RESRAD	≥		
Parameter									
Menu	≥	Parameter	≥	Input	≥	Default	≥ computed	≥	Name
fffff~	ffffffffff	ffffffffff	ffffffffff	ffffffffff	ffffffffff	ffffffffff	ffffffffff	ffffffffff	ffffffffff
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 DFREQ(6,2,11)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class C DFREQ(6,3,11)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class D DFREQ(6,4,11)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class E DFREQ(6,5,11)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class F 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 DFREQ(1,1,12)	≥ 3.250E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 1 and stability class B DFREQ(1,2,12)	≥ 1.040E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 1 and stability class C DFREQ(1,3,12)	≥ 1.620E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 1 and stability class D DFREQ(1,4,12)	≥ 4.740E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 1 and stability class E DFREQ(1,5,12)	≥ 8.200E-04	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 1 and stability class F DFREQ(1,6,12)	≥ 1.630E-03	≥ 0.000E+00	≥ ---	≥

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Parent Dose Report

Title : Industrial Cap Hydro

File : INDUSTRIAL CAP HYDRO.ROF

## Site-Specific Parameter Summary (continued)

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

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 fffff

AIRT ≥ Joint Frequency in WSW Sector	≥	≥	≥	≥
AIRT ≥ for wind speed class 2 and stability class A DFREQ(2,1,12)	≥ 1.130E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 2 and stability class B DFREQ(2,2,12)	≥ 1.430E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 2 and stability class C DFREQ(2,3,12)	≥ 3.870E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 2 and stability class D DFREQ(2,4,12)	≥ 7.670E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 2 and stability class E DFREQ(2,5,12)	≥ 8.200E-04	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 2 and stability class F 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 DFREQ(3,1,12)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 3 and stability class B DFREQ(3,2,12)	≥ 1.000E-05	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 3 and stability class C DFREQ(3,3,12)	≥ 4.000E-05	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 3 and stability class D DFREQ(3,4,12)	≥ 1.320E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 3 and stability class E DFREQ(3,5,12)	≥ 7.000E-05	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 3 and stability class F 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 DFREQ(6,4,12)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class E DFREQ(6,5,12)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class F 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 DFREQ(1,1,13)	≥ 3.520E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 1 and stability class B DFREQ(1,2,13)	≥ 1.240E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 1 and stability class C DFREQ(1,3,13)	≥ 1.970E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 1 and stability class D DFREQ(1,4,13)	≥ 6.080E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 1 and stability class E DFREQ(1,5,13)	≥ 9.000E-04	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 1 and stability class F DFREQ(1,6,13)	≥ 1.430E-03	≥ 0.000E+00	≥ ---	≥

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Parent Dose Report

Title : Industrial Cap Hydro

File : INDUSTRIAL CAP HYDRO.ROF

Site-Specific Parameter Summary (continued)

0	≥	≥	User	≥	≥	RESRAD	≥
Parameter							
Menu	≥	Parameter	≥	Input	≥	Default	≥ computed ≥ Name
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fffff							
AIRT ≥ Joint Frequency in W Sector	≥		≥		≥		≥

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



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)					

AIRT ≥ for wind speed class 6 and stability class F DFREQ(6,6,13)	≥ 0.000E+00 ≥ 0.000E+00 ≥ --- ≥
≥	≥ ≥ ≥ ≥
AIRT ≥ Joint Frequency in WNW Sector	≥ ≥ ≥ ≥
AIRT ≥ for wind speed class 1 and stability class A DFREQ(1,1,14)	≥ 2.690E-03 ≥ 0.000E+00 ≥ --- ≥
AIRT ≥ for wind speed class 1 and stability class B DFREQ(1,2,14)	≥ 9.500E-04 ≥ 0.000E+00 ≥ --- ≥
AIRT ≥ for wind speed class 1 and stability class C DFREQ(1,3,14)	≥ 1.290E-03 ≥ 0.000E+00 ≥ --- ≥
AIRT ≥ for wind speed class 1 and stability class D DFREQ(1,4,14)	≥ 4.270E-03 ≥ 0.000E+00 ≥ --- ≥
AIRT ≥ for wind speed class 1 and stability class E DFREQ(1,5,14)	≥ 6.600E-04 ≥ 0.000E+00 ≥ --- ≥
AIRT ≥ for wind speed class 1 and stability class F DFREQ(1,6,14)	≥ 1.330E-03 ≥ 0.000E+00 ≥ --- ≥

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Title : Industrial Cap Hydro

File : INDUSTRIAL CAP HYDRO.ROF

## Site-Specific Parameter Summary (continued)

0 ≥	≥ User ≥ RESRAD ≥
Parameter	
Menu ≥	≥ Input ≥ Default ≥ computed ≥ Name
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AIRT ≥ Joint Frequency in WNW Sector	≥ ≥ ≥ ≥
AIRT ≥ for wind speed class 2 and stability class A DFREQ(2,1,14)	≥ 1.620E-03 ≥ 0.000E+00 ≥ --- ≥
AIRT ≥ for wind speed class 2 and stability class B DFREQ(2,2,14)	≥ 1.970E-03 ≥ 0.000E+00 ≥ --- ≥

AIRT ≥ for wind speed class 2 and stability class C DFREQ(2,3,14)	≥ 5.130E-03 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 2 and stability class D DFREQ(2,4,14)	≥ 8.220E-03 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 2 and stability class E DFREQ(2,5,14)	≥ 8.100E-04 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 2 and stability class F 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 DFREQ(3,1,14)	≥ 1.000E-05 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 3 and stability class B DFREQ(3,2,14)	≥ 1.000E-05 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 3 and stability class C DFREQ(3,3,14)	≥ 9.000E-05 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 3 and stability class D DFREQ(3,4,14)	≥ 9.000E-04 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 3 and stability class E DFREQ(3,5,14)	≥ 6.000E-05 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 3 and stability class F 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 DFREQ(4,1,14)	≥ 0.000E+00 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 4 and stability class B DFREQ(4,2,14)	≥ 0.000E+00 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 4 and stability class C DFREQ(4,3,14)	≥ 0.000E+00 ≥ 0.000E+00 ≥	---	≥
AIRT ≥ for wind speed class 4 and stability class D 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	≥	≥	≥		≥

AIRT ≥ for wind speed class 1 and stability class A DFREQ(1,1,15)	≥ 2.370E-03 ≥ 0.000E+00 ≥ --- ≥
AIRT ≥ for wind speed class 1 and stability class B DFREQ(1,2,15)	≥ 7.400E-04 ≥ 0.000E+00 ≥ --- ≥
AIRT ≥ for wind speed class 1 and stability class C DFREQ(1,3,15)	≥ 1.250E-03 ≥ 0.000E+00 ≥ --- ≥
AIRT ≥ for wind speed class 1 and stability class D DFREQ(1,4,15)	≥ 4.150E-03 ≥ 0.000E+00 ≥ --- ≥
AIRT ≥ for wind speed class 1 and stability class E DFREQ(1,5,15)	≥ 7.900E-04 ≥ 0.000E+00 ≥ --- ≥
AIRT ≥ for wind speed class 1 and stability class F DFREQ(1,6,15)	≥ 1.300E-03 ≥ 0.000E+00 ≥ --- ≥

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File : INDUSTRIAL CAP HYDRO.ROF

Site-Specific Parameter Summary (continued)

0 ≥	≥ User ≥	≥ RESRAD ≥
Parameter	≥ Input ≥ Default ≥ computed ≥	Name
Menu ≥	Parameter	
fffff~ffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff fffff		
AIRT ≥ Joint Frequency in NW Sector	≥ ≥ ≥	≥
AIRT ≥ for wind speed class 2 and stability class A DFREQ(2,1,15)	≥ 1.630E-03 ≥ 0.000E+00 ≥ --- ≥	≥
AIRT ≥ for wind speed class 2 and stability class B DFREQ(2,2,15)	≥ 2.360E-03 ≥ 0.000E+00 ≥ --- ≥	≥
AIRT ≥ for wind speed class 2 and stability class C DFREQ(2,3,15)	≥ 6.430E-03 ≥ 0.000E+00 ≥ --- ≥	≥
AIRT ≥ for wind speed class 2 and stability class D DFREQ(2,4,15)	≥ 1.140E-02 ≥ 0.000E+00 ≥ --- ≥	≥

AIRT ≥ for wind speed class 2 and stability class E DFREQ(2,5,15)	≥ 1.150E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 2 and stability class F 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 DFREQ(3,1,15)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 3 and stability class B DFREQ(3,2,15)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 3 and stability class C DFREQ(3,3,15)	≥ 2.500E-04	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 3 and stability class D DFREQ(3,4,15)	≥ 3.490E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 3 and stability class E DFREQ(3,5,15)	≥ 1.400E-04	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 3 and stability class F 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 DFREQ(4,1,15)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class B DFREQ(4,2,15)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class C DFREQ(4,3,15)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class D DFREQ(4,4,15)	≥ 1.200E-04	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class E DFREQ(4,5,15)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class F 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 DFREQ(5,1,15)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 5 and stability class B DFREQ(5,2,15)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 5 and stability class C DFREQ(5,3,15)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 5 and stability class D DFREQ(5,4,15)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 5 and stability class E DFREQ(5,5,15)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 5 and stability class F 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 DFREQ(6,1,15)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class B DFREQ(6,2,15)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class C DFREQ(6,3,15)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class D DFREQ(6,4,15)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class E DFREQ(6,5,15)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 6 and stability class F 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 DFREQ(1,1,16)	≥ 2.100E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 1 and stability class B DFREQ(1,2,16)	≥ 6.100E-04	≥ 0.000E+00	≥ ---	≥

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

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## Site-Specific Parameter Summary (continued)

0 ≥	≥ User ≥	≥ RESRAD ≥
Parameter	≥ Input ≥	≥ Default ≥
Menu ≥	Parameter	≥ computed ≥
		Name
fffff~ffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff~ffffffffffff		
fffff		
AIRT ≥ Joint Frequency in NNW Sector	≥	≥
AIRT ≥ for wind speed class 2 and stability class A DFREQ(2,1,16)	≥ 1.640E-03 ≥ 0.000E+00 ≥ --- ≥	
AIRT ≥ for wind speed class 2 and stability class B DFREQ(2,2,16)	≥ 2.250E-03 ≥ 0.000E+00 ≥ --- ≥	
AIRT ≥ for wind speed class 2 and stability class C DFREQ(2,3,16)	≥ 8.170E-03 ≥ 0.000E+00 ≥ --- ≥	
AIRT ≥ for wind speed class 2 and stability class D DFREQ(2,4,16)	≥ 1.822E-02 ≥ 0.000E+00 ≥ --- ≥	
AIRT ≥ for wind speed class 2 and stability class E DFREQ(2,5,16)	≥ 2.150E-03 ≥ 0.000E+00 ≥ --- ≥	
AIRT ≥ for wind speed class 2 and stability class F 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 DFREQ(3,1,16)	≥ 1.000E-05	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 3 and stability class B DFREQ(3,2,16)	≥ 1.000E-05	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 3 and stability class C DFREQ(3,3,16)	≥ 6.600E-04	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 3 and stability class D DFREQ(3,4,16)	≥ 1.573E-02	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 3 and stability class E DFREQ(3,5,16)	≥ 3.000E-04	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 3 and stability class F 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 DFREQ(4,1,16)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class B DFREQ(4,2,16)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class C DFREQ(4,3,16)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class D DFREQ(4,4,16)	≥ 2.270E-03	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class E DFREQ(4,5,16)	≥ 0.000E+00	≥ 0.000E+00	≥ ---	≥
AIRT ≥ for wind speed class 4 and stability class F 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 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 distribution 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~	WTRU ≥ Fraction of irrigation water 4 from well water	≥ 1.000E+00	≥ 1.000E+00	≥ ---	≥ FWIR(4)
fffff	WTRU ≥ Irrigation rate in Offsite dwelling site (m/yr)	≥ 0.000E+00	≥ 2.000E-01	≥ ---	≥
fffff	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)

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



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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: RAD_SHAPE( 3)	≥ 2.700E+01 ≥ 1.800E+01 ≥ --- ≥
SEXT ≥ Outer annular radius (m), ring 4: RAD_SHAPE( 4)	≥ 3.600E+01 ≥ 2.400E+01 ≥ --- ≥
SEXT ≥ Outer annular radius (m), ring 5: RAD_SHAPE( 5)	≥ 4.500E+01 ≥ 3.000E+01 ≥ --- ≥
SEXT ≥ Outer annular radius (m), ring 6: RAD_SHAPE( 6)	≥ 5.400E+01 ≥ 3.600E+01 ≥ --- ≥
SEXT ≥ Outer annular radius (m), ring 7: RAD_SHAPE( 7)	≥ 6.300E+01 ≥ 4.200E+01 ≥ --- ≥
SEXT ≥ Outer annular radius (m), ring 8: RAD_SHAPE( 8)	≥ 7.200E+01 ≥ 4.800E+01 ≥ --- ≥
SEXT ≥ Outer annular radius (m), ring 9: RAD_SHAPE( 9)	≥ 8.100E+01 ≥ 5.400E+01 ≥ --- ≥
SEXT ≥ Outer annular radius (m), ring 10: RAD_SHAPE(10)	≥ 9.000E+01 ≥ 6.000E+01 ≥ --- ≥
SEXT ≥ Outer annular radius (m), ring 11: RAD_SHAPE(11)	≥ 9.900E+01 ≥ 6.600E+01 ≥ --- ≥
SEXT ≥ Outer annular radius (m), ring 12: 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~ffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff~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: RAD_SHAPE(13)	≥ 9.000E+00	≥ 1.325E+01	≥ ---	≥
SEXT ≥ Outer annular radius (m), ring 14: RAD_SHAPE(14)	≥ 1.800E+01	≥ 2.650E+01	≥ ---	≥
SEXT ≥ Outer annular radius (m), ring 15: RAD_SHAPE(15)	≥ 2.700E+01	≥ 3.975E+01	≥ ---	≥
SEXT ≥ Outer annular radius (m), ring 16: RAD_SHAPE(16)	≥ 3.600E+01	≥ 5.300E+01	≥ ---	≥
SEXT ≥ Outer annular radius (m), ring 17: RAD_SHAPE(17)	≥ 4.500E+01	≥ 6.625E+01	≥ ---	≥
SEXT ≥ Outer annular radius (m), ring 18: RAD_SHAPE(18)	≥ 5.400E+01	≥ 7.950E+01	≥ ---	≥
SEXT ≥ Outer annular radius (m), ring 19: RAD_SHAPE(19)	≥ 6.300E+01	≥ 9.275E+01	≥ ---	≥
SEXT ≥ Outer annular radius (m), ring 20: RAD_SHAPE(20)	≥ 7.200E+01	≥ 1.060E+02	≥ ---	≥
SEXT ≥ Outer annular radius (m), ring 21: RAD_SHAPE(21)	≥ 8.100E+01	≥ 1.193E+02	≥ ---	≥
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	≥ ---	≥
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## RAD\_SHAPE(23)

SEXT ≥ Outer annular radius (m), ring 24:	≥ 1.080E+02	≥ 1.590E+02	≥ ---	≥
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## 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	≥ ---	≥
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## OCCUPANCY(2)

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Site-Specific Parameter Summary (continued)

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

C12	≥ C-12 concentration in contaminated soil (g/g)	≥ not used	≥ 3.000E-02	≥	---	≥ C12CZ
C12	≥ C-12 concentration in water (g/cm**3)	≥ not used	≥ 2.000E-05	≥	---	≥ C12WTR
C12	≥ C-12 concentration in meat 1 (g/g)	≥ not used	≥ 2.400E-01	≥	---	≥
C12MEAT_MILK(1)						
C12	≥ C-12 concentration in milk (g/g)	≥ not used	≥ 7.000E-02	≥	---	≥
C12MEAT_MILK(2)						
C12	≥ C-12 concentration in vegetable 1 (g/g)	≥ not used	≥ 4.000E-01	≥	---	≥
C12PLANT(1)						
C12	≥ C-12 concentration in vegetable 2 (g/g)	≥ not used	≥ 9.000E-02	≥	---	≥
C12PLANT(2)						
C12	≥ C-12 concentration in livestock feed 1 (g/g)	≥ not used	≥ 9.000E-02	≥	---	≥
C12PLANT(3)						
C12	≥ C-12 concentration in livestock feed 2 (g/g)	≥ not used	≥ 4.000E-01	≥	---	≥
C12PLANT(4)						
	≥	≥	≥	≥	---	≥
H3	≥ Humidity in air (g/cm**3)	≥ 5.550E+00	≥ 8.000E+00	≥	---	≥ HUMID
H3	≥ Mass fraction of water in meat 1 (g/g)	≥ not used	≥ 6.000E-01	≥	---	≥
H20MEAT_MILK(1)						
H3	≥ Mass fraction of water in milk (g/g)	≥ not used	≥ 8.800E-01	≥	---	≥
H20MEAT_MILK(2)						
H3	≥ Mass fraction of water in vegetable 1 (g/g)	≥ not used	≥ 8.000E-01	≥	---	≥
H20PLANT(1)						
H3	≥ Mass fraction of water in vegetable 2 (g/g)	≥ not used	≥ 8.000E-01	≥	---	≥
H20PLANT(2)						
H3	≥ Mass fraction of water in livestock feed 1 (g/g)	≥ not used	≥ 8.000E-01	≥	---	≥
H20PLANT(3)						
H3	≥ Mass fraction of water in livestock feed 2 (g/g)	≥ not used	≥ 8.000E-01	≥	---	≥
H20PLANT(4)						

[illegible]

Title : Industrial Cap Hydro  
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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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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: 3.00 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)  
Total Mixture Sum M(t) = Fraction of Basic Dose Limit Received at Time (t)  
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): 5.554E-11 6.014E-11 6.361E-11 5.898E-11 5.335E-11 5.313E-11 5.477E-11 6.077E-11  
M(t): 3.703E-12 4.009E-12 4.241E-12 3.932E-12 3.557E-12 3.542E-12 3.652E-12 4.051E-12  
Maximum TDOSE(t): 6.431E-11 mrem/yr at t = 4.02 years  
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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

From releases to ground water and to surface water

	Ground		Fish		Radon		Plant		Meat		Milk		Soil	
Radio-	Dose %		Dose %		Dose %		Dose %		Dose %		Dose %		Dose %	
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
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
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
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 15:16 Page 69

Parent Dose Report

Title : Industrial Cap Hydro

File : INDUSTRIAL CAP HYDRO.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 = 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 4.35E-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 0
4.35E-19 0

```

```

Al-26 5.21E-11 94 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
5.21E-11 94

```

```

Am-241 1.32E-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
1.32E-26 0

```

```

Cf-249 5.24E-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

```

5.24E-23	0													
Cf-251	3.24E-29	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
3.24E-29	0													
Cf-252	5.89E-39	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
5.89E-39	0													
Cl-36	6.69E-29	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
6.69E-29	0													
Co-60	8.30E-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
8.30E-14	0													
Cs-134	4.37E-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
4.37E-23	0													
Cs-137	9.20E-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
9.20E-15	0													
Eu-154	9.93E-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
9.93E-18	0													
Eu-155	3.80E-39	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
3.80E-39	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	1.06E-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
1.06E-17	0													
Na-22	3.46E-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	0
3.46E-19	0													
Np-237	9.40E-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
9.40E-26	0													
Pb-210	5.47E-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
5.47E-22	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	3.26E-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
3.26E-25	0													
Pu-239	1.06E-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
1.06E-25	0													

Pu-240	8.12E-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	0
8.12E-30	0													
Pu-241	2.82E-29	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
2.82E-29	0													
Pu-242	2.07E-29	0	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-29	0													
Ra-226	1.48E-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
1.48E-13	0													
Ra-228	3.14E-12	6	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
3.14E-12	6													
Ru-106	4.30E-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	0
4.30E-27	0													
Sb-125	2.95E-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
2.95E-22	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	9.70E-40	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
9.70E-40	0													
Sn-126	1.27E-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
1.27E-18	0													
Sr-90	5.67E-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
5.67E-22	0													
Th-228	3.71E-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
3.71E-14	0													
Th-230	6.96E-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
6.96E-16	0													
Th-232	3.52E-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
3.52E-16	0													
U-233	2.71E-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
2.71E-20	0													
U-234	1.20E-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
1.20E-21	0													
U-235	7.25E-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

7.25E-24	0													
U-236	2.04E-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
2.04E-25	0													
U-238	5.67E-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
5.67E-17	0													
00000000	00000000	000	00000000	000	00000000	000	00000000	000	00000000	000	00000000	000	00000000	000
00000000	000													
Total	5.55E-11	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
5.55E-11	100													

0\*Sum of dose from all releases and from primary contamination.  
1RESRAD-OFFSITE, Version 2.6                      T' Limit = 30 days                      09/19/2012 15:16 Page 70  
Parent Dose Report  
Title : Industrial Cap Hydro  
File : INDUSTRIAL CAP HYDRO.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														
	Ground		Fish		Radon		Plant		Meat		Milk		Soil	
Water														
Radio-	ffffff	ffffff	ffffff	ffffff	ffffff	ffffff	ffffff	ffffff	ffffff	ffffff	ffffff	ffffff	ffffff	ffffff
ffffff														
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	0.00E+00 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 0.00E+00	0.00E+00 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 0.00E+00	0.00E+00 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 0.00E+00	0.00E+00 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 0.00E+00	0.00E+00 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 0.00E+00	0.00E+00 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 0.00E+00	0.00E+00 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 0.00E+00	0.00E+00 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 0.00E+00	0.00E+00 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 0.00E+00	0.00E+00 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 0.00E+00	0.00E+00 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 0.00E+00	0.00E+00 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 0.00E+00	0.00E+00 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 0.00E+00	0.00E+00 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 0.00E+00	0.00E+00 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 0.00E+00	0.00E+00 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	0.00E+00 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



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 15:16    Page 71  
Parent Dose Report  
Title : Industrial Cap Hydro  
File : INDUSTRIAL CAP HYDRO.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]

*ffffff ffffffff fff ffffffff fff ffffffff fff ffffffff fff ffffffff fff ffffffff fff*

[illegible]

A1-26	5.21E-11	87	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
5.21E-11	87													

[illegible]

Cf-249	5.23E-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
5.23E-23	0													
Cf-251	4.65E-29	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
4.65E-29	0													
Cf-252	3.48E-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
3.48E-38	0													
Cl-36	6.68E-29	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
6.68E-29	0													
Co-60	7.28E-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
7.28E-14	0													
Cs-134	3.13E-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
3.13E-23	0													
Cs-137	8.99E-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
8.99E-15	0													
Eu-154	9.18E-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
9.18E-18	0													
Eu-155	3.31E-39	0	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-39	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	1.06E-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
1.06E-17	0													
Na-22	2.65E-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	0
2.65E-19	0													
Np-237	9.42E-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
9.42E-26	0													
Pb-210	9.69E-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
9.69E-22	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	4.10E-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
4.10E-24	0													
Pu-239	1.07E-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

1.07E-25	0												
Pu-240	1.81E-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
1.81E-28	0												
Pu-241	1.42E-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
1.42E-28	0												
Pu-242	6.21E-29	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00
6.21E-29	0												
Ra-226	1.48E-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
1.48E-13	0												
Ra-228	7.75E-12	13	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00
7.75E-12	13												
Ru-106	2.16E-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
2.16E-27	0												
Sb-125	2.29E-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
2.29E-22	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	9.58E-40	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00
9.58E-40	0												
Sn-126	1.27E-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
1.27E-18	0												
Sr-90	5.53E-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
5.53E-22	0												
Th-228	2.59E-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
2.59E-14	0												
Th-230	2.09E-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
2.09E-15	0												
Th-232	1.96E-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
1.96E-15	0												
U-233	8.13E-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
8.13E-20	0												
U-234	7.58E-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
7.58E-21	0												

File : INDUSTRIAL CAP HYDRO.ROF

[illegible]

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

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1RESRAD-OFFSITE, Version 2.6 T Limit = 30 days 09/19/2012 15:16 Page 73

Parent Dose Report

Title : Industrial Cap Hydro

File : INDUSTRIAL CAP HYDRO.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- ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff  
 ffffffff 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  
 fffffff fff

Ac-227 3.59E-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 0  
 3.59E-19 0

Al-26 5.22E-11 82 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0  
 5.22E-11 82

Am-241 1.73E-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



1.73E-25	0												
Cf-249	5.18E-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
5.18E-23	0												
Cf-251	1.17E-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
1.17E-28	0												
Cf-252	4.34E-37	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00
4.34E-37	0												
Cl-36	6.62E-29	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00
6.62E-29	0												
Co-60	3.77E-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
3.77E-14	0												
Cs-134	5.83E-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
5.83E-24	0												
Cs-137	8.02E-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
8.02E-15	0												
Eu-154	6.19E-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
6.19E-18	0												
Eu-155	1.65E-39	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00
1.65E-39	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	1.06E-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
1.06E-17	0												
Na-22	7.01E-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
7.01E-20	0												
Np-237	9.70E-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
9.70E-26	0												
Pb-210	9.05E-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
9.05E-22	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	2.85E-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
2.85E-22	0												

Pu-239	1.07E-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
1.07E-25	0													
Pu-240	3.22E-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
3.22E-26	0													
Pu-241	2.22E-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	0
2.22E-27	0													
Pu-242	2.69E-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
2.69E-28	0													
Ra-226	1.47E-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
1.47E-13	0													
Ra-228	1.12E-11	18	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
1.12E-11	18													
Ru-106	6.90E-29	0	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-29	0													
Sb-125	6.50E-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
6.50E-23	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	9.01E-40	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
9.01E-40	0													
Sn-126	1.27E-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
1.27E-18	0													
Sr-90	4.92E-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
4.92E-22	0													
Th-228	4.23E-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
4.23E-15	0													
Th-230	9.04E-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
9.04E-15	0													
Th-232	1.77E-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
1.77E-14	0													
U-233	3.52E-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	0
3.52E-19	0													
U-234	1.35E-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	0

1.35E-19	0													
U-235	5.52E-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
5.52E-22	0													
U-236	9.90E-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
9.90E-23	0													
U-238	5.67E-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
5.67E-17	0													
00000000	00000000	000	00000000	000	00000000	000	00000000	000	00000000	000	00000000	000	00000000	000
00000000	000													
Total	6.36E-11	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
6.36E-11	100													

0\*Sum of dose from all releases and from primary contamination.  
1RESRAD-OFFSITE, Version 2.6                      T' Limit = 30 days                      09/19/2012 15:16 Page 74  
Parent Dose Report  
Title : Industrial Cap Hydro  
File : INDUSTRIAL CAP HYDRO.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 15:16 Page 75  
Parent Dose Report  
Title : Industrial Cap Hydro  
File : INDUSTRIAL CAP HYDRO.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							
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	2.97E-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	0
2.97E-19	0													
Al-26	5.22E-11	89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
5.22E-11	89													

Am-241	3.41E-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
3.41E-25	0													
Cf-249	5.12E-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
5.12E-23	0													
Cf-251	2.01E-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
2.01E-28	0													
Cf-252	1.13E-36	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
1.13E-36	0													
Cl-36	6.55E-29	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
6.55E-29	0													
Co-60	1.71E-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
1.71E-14	0													
Cs-134	7.77E-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
7.77E-25	0													
Cs-137	6.99E-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
6.99E-15	0													
Eu-154	3.86E-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
3.86E-18	0													
Eu-155	7.14E-40	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
7.14E-40	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	1.05E-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
1.05E-17	0													
Na-22	1.42E-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
1.42E-20	0													
Np-237	1.05E-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
1.05E-25	0													
Pb-210	7.52E-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
7.52E-22	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	1.99E-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

1.99E-21	0													
Pu-239	1.07E-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
1.07E-25	0													
Pu-240	2.84E-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
2.84E-25	0													
Pu-241	7.58E-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	0
7.58E-27	0													
Pu-242	5.19E-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
5.19E-28	0													
Ra-226	1.47E-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
1.47E-13	0													
Ra-228	6.56E-12	11	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
6.56E-12	11													
Ru-106	1.11E-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	0
1.11E-30	0													
Sb-125	1.43E-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
1.43E-23	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	8.37E-40	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
8.37E-40	0													
Sn-126	1.27E-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
1.27E-18	0													
Sr-90	4.27E-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
4.27E-22	0													
Th-228	4.82E-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
4.82E-16	0													
Th-230	1.74E-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
1.74E-14	0													
Th-232	3.29E-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
3.29E-14	0													
U-233	6.78E-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	0
6.78E-19	0													



U-234	4.99E-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	0
4.99E-19	0													
U-235	1.91E-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
1.91E-21	0													
U-236	4.16E-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
4.16E-22	0													
U-238	5.68E-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
5.68E-17	0													
00000000	00000000	000	00000000	000	00000000	000	00000000	000	00000000	000	00000000	000	00000000	000
00000000	000													
Total	5.90E-11	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
5.90E-11	100													

0\*Sum of dose from all releases and from primary contamination.  
1RESRAD-OFFSITE, Version 2.6                      T' Limit = 30 days                      09/19/2012 15:16    Page 76  
Parent Dose Report  
Title : Industrial Cap Hydro  
File : INDUSTRIAL CAP HYDRO.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
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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
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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
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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
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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
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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
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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
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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
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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
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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

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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
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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
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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 15:16 Page 77  
Parent Dose Report  
Title : Industrial Cap Hydro  
File : INDUSTRIAL CAP HYDRO.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)														
0	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
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Am-241	9.75E-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
9.75E-25	0												
Cf-249	4.96E-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
4.96E-23	0												
Cf-251	4.53E-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
4.53E-28	0												
Cf-252	3.44E-36	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00
3.44E-36	0												
Cl-36	6.34E-29	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00
6.34E-29	0												
Co-60	1.61E-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
1.61E-15	0												
Cs-134	1.84E-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
1.84E-27	0												
Cs-137	4.62E-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
4.62E-15	0												
Eu-154	9.39E-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
9.39E-19	0												
Eu-155	5.81E-41	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00
5.81E-41	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	1.05E-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
1.05E-17	0												
Na-22	1.18E-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
1.18E-22	0												
Np-237	1.59E-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
1.59E-25	0												
Pb-210	4.31E-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
4.31E-22	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	2.78E-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
2.78E-20	0													
Pu-239	1.12E-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
1.12E-25	0													
Pu-240	3.87E-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
3.87E-24	0													
Pu-241	3.90E-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
3.90E-26	0													
Pu-242	1.27E-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	0
1.27E-27	0													
Ra-226	1.46E-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
1.46E-13	0													
Ra-228	7.89E-13	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
7.89E-13	1													
Ru-106	4.54E-36	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
4.54E-36	0													
Sb-125	1.54E-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
1.54E-25	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	6.71E-40	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
6.71E-40	0													
Sn-126	1.28E-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
1.28E-18	0													
Sr-90	2.79E-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
2.79E-22	0													
Th-228	7.12E-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	0
7.12E-19	0													
Th-230	4.23E-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
4.23E-14	0													
Th-232	4.71E-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
4.71E-14	0													
U-233	1.66E-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

1.66E-18	0													
U-234	2.96E-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
2.96E-18	0													
U-235	9.61E-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
9.61E-21	0													
U-236	1.97E-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
1.97E-21	0													
U-238	5.69E-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
5.69E-17	0													
00000000	00000000	000	00000000	000	00000000	000	00000000	000	00000000	000	00000000	000	00000000	000
00000000	000													
Total	5.34E-11	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
5.34E-11	100													

0\*Sum of dose from all releases and from primary contamination.  
1RESRAD-OFFSITE, Version 2.6                      T' Limit = 30 days                      09/19/2012 15:16 Page 78  
Parent Dose Report  
Title : Industrial Cap Hydro  
File : INDUSTRIAL CAP HYDRO.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	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	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                      09/19/2012 15:16 Page 79  
Parent Dose Report  
Title : Industrial Cap Hydro  
File : INDUSTRIAL CAP HYDRO.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-	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	1.83E-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
1.83E-20	0													

Al-26	5.28E-11	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
5.28E-11	99													
Am-241	8.88E-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
8.88E-24	0													
Cf-249	4.38E-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
4.38E-23	0													
Cf-251	1.42E-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	0
1.42E-27	0													
Cf-252	1.26E-35	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
1.26E-35	0													
Cl-36	5.60E-29	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
5.60E-29	0													
Co-60	1.61E-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	0
1.61E-19	0													
Cs-134	1.12E-37	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
1.12E-37	0													
Cs-137	9.28E-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
9.28E-16	0													
Eu-154	3.82E-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
3.82E-21	0													
Eu-155	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	0
2.80E-45	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	1.02E-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
1.02E-17	0													
Na-22	9.48E-31	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
9.48E-31	0													
Np-237	7.97E-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
7.97E-25	0													
Pb-210	4.94E-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
4.94E-23	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	8.76E-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	0
8.76E-19	0													
Pu-239	2.14E-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
2.14E-25	0													
Pu-240	6.99E-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
6.99E-23	0													
Pu-241	5.20E-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
5.20E-25	0													
Pu-242	4.22E-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	0
4.22E-27	0													
Ra-226	1.43E-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
1.43E-13	0													
Ra-228	1.72E-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
1.72E-16	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	3.33E-33	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
3.33E-33	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	2.84E-40	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
2.84E-40	0													
Sn-126	1.29E-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
1.29E-18	0													
Sr-90	5.35E-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
5.35E-23	0													
Th-228	6.92E-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	0
6.92E-30	0													
Th-230	1.39E-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	0
1.39E-13	0													
Th-232	4.94E-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
4.94E-14	0													

U-233	5.49E-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
5.49E-18	0													
U-234	3.21E-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
3.21E-17	0													
U-235	6.22E-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
6.22E-20	0													
U-236	8.96E-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
8.96E-21	0													
U-238	5.74E-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
5.74E-17	0													
00000000	00000000	000	00000000	000	00000000	000	00000000	000	00000000	000	00000000	000	00000000	000
00000000	000													
Total	5.31E-11	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
5.31E-11	100													

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

1RESRAD-OFFSITE, Version 2.6

T Limit = 30 days

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Parent Dose Report

Title : Industrial Cap Hydro

File : INDUSTRIAL CAP HYDRO.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

0

From releases to ground water and to surface water

0

Ground

Fish

Radon

Plant

Meat

Milk

Soil

Water

Radio-	ffffffffffff	ffffffffffff	ffffffffffff	ffffffffffff	ffffffffffff	ffffffffffff	ffffffffffff	ffffffffffff
ffffffffffff								

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

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 Cap Hydro

File : INDUSTRIAL CAP HYDRO.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

ffffff fff

Ac-227 3.25E-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



3.25E-23	0													
Al-26	5.42E-11	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
5.42E-11	99													
Am-241	1.68E-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
1.68E-22	0													
Cf-249	3.06E-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
3.06E-23	0													
Cf-251	4.02E-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	0
4.02E-27	0													
Cf-252	3.98E-35	0	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-35	0													
Cl-36	3.93E-29	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
3.93E-29	0													
Co-60	6.07E-31	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
6.07E-31	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	9.43E-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
9.43E-18	0													
Eu-154	5.66E-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
5.66E-28	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	9.36E-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
9.36E-18	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	6.48E-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
6.48E-24	0													
Pb-210	1.02E-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
1.02E-25	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	1.71E-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
1.71E-17	0													
Pu-239	1.51E-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
1.51E-24	0													
Pu-240	7.35E-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
7.35E-22	0													
Pu-241	1.26E-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
1.26E-23	0													
Pu-242	1.30E-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
1.30E-26	0													
Ra-226	1.35E-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
1.35E-13	0													
Ra-228	5.95E-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	0
5.95E-27	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	2.44E-41	0	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-41	0													
Sn-126	1.33E-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
1.33E-18	0													
Sr-90	4.77E-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
4.77E-25	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	4.07E-13	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
4.07E-13	1													
Th-232	5.05E-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

5.05E-14	0													
U-233	1.66E-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
1.66E-17	0													
U-234	2.86E-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
2.86E-16	0													
U-235	2.45E-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	0
2.45E-19	0													
U-236	2.96E-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
2.96E-20	0													
U-238	5.90E-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
5.90E-17	0													
00000000	00000000	000	00000000	000	00000000	000	00000000	000	00000000	000	00000000	000	00000000	000
00000000	000													
Total	5.48E-11	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
5.48E-11	100													

0\*Sum of dose from all releases and from primary contamination.  
1RESRAD-OFFSITE, Version 2.6                      T' Limit = 30 days                      09/19/2012 15:16 Page 82  
Parent Dose Report  
Title : Industrial Cap Hydro  
File : INDUSTRIAL CAP HYDRO.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

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Parent Dose Report

Title : Industrial Cap Hydro

File : INDUSTRIAL CAP HYDRO.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
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	7.67E-33	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
7.67E-33	0													
Al-26	5.93E-11	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
5.93E-11	98													
Am-241	5.03E-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
5.03E-21	0													
Cf-249	8.72E-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
8.72E-24	0													
Cf-251	1.18E-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
1.18E-26	0													
Cf-252	1.49E-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
1.49E-34	0													
Cl-36	1.13E-29	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
1.13E-29	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	9.99E-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
9.99E-25	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	6.99E-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
6.99E-18	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	7.56E-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
7.56E-23	0													
Pb-210	4.03E-35	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0

4.03E-35	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	3.05E-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
3.05E-16	0												
Pu-239	1.98E-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
1.98E-23	0												
Pu-240	8.98E-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
8.98E-21	0												
Pu-241	4.30E-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
4.30E-22	0												
Pu-242	4.84E-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
4.84E-26	0												
Ra-226	1.09E-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
1.09E-13	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	4.20E-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
4.20E-45	0												
Sn-126	1.49E-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
1.49E-18	0												
Sr-90	3.20E-32	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-32	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	1.28E-12	2	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00
1.28E-12	2												



Th-232	5.45E-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
5.45E-14	0													
U-233	5.84E-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
5.84E-17	0													
U-234	3.12E-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
3.12E-15	0													
U-235	9.74E-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	0
9.74E-19	0													
U-236	1.08E-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	0
1.08E-19	0													
U-238	6.82E-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
6.82E-17	0													
00000000	00000000	000	00000000	000	00000000	000	00000000	000	00000000	000	00000000	000	00000000	000
00000000	000													
Total	6.08E-11	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
6.08E-11	100													

0\*Sum of dose from all releases and from primary contamination.  
1RESRAD-OFFSITE, Version 2.6                      T' Limit = 30 days                      09/19/2012 15:16 Page 84  
Parent Dose Report  
Title : Industrial Cap Hydro  
File : INDUSTRIAL CAP HYDRO.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													
ffffffffffff	ffffffffffff	ffffffffffff	ffffffffffff	ffffffffffff	ffffffffffff	ffffffffffff	ffffffffffff	ffffffffffff	ffffffffffff	ffffffffffff	ffffffffffff	ffffffffffff	ffffffffffff
Ac-227+D	Ac-227+D	1.000E+00	1.857E-19	1.799E-19	1.536E-19	1.270E-19	7.183E-20	7.827E-21	1.390E-23				
3.279E-33													
0Al-26	Al-26	1.000E+00	6.822E-14	6.822E-14	6.827E-14	6.832E-14	6.848E-14	6.910E-14	7.092E-14				
7.765E-14													

0Am-241 0.000E+00	Am-241	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
Am-241 1.143E-26	Np-237+D	1.000E+00	9.390E-30	2.816E-29	1.217E-28	2.331E-28	5.627E-28	1.780E-27	4.758E-27	
Am-241 6.278E-36	U-233	1.000E+00	3.002E-42	1.900E-41	3.380E-40	1.245E-39	7.366E-39	7.831E-38	6.621E-37	
Am-241 3.555E-24	Th-229+D	1.000E+00	1.439E-33	1.811E-32	1.269E-30	8.947E-30	1.290E-28	4.519E-27	1.142E-25	
Am-241 3.566E-24	%DSR(j)		9.392E-30	2.818E-29	1.229E-28	2.421E-28	6.917E-28	6.298E-27	1.190E-25	
0Cf-249 1.399E-29	Cf-249	5.200E-09	8.402E-29	8.387E-29	8.313E-29	8.224E-29	7.963E-29	7.024E-29	4.908E-29	
0Cf-249 2.691E-21	Cf-249	1.000E+00	1.616E-20	1.613E-20	1.599E-20	1.581E-20	1.531E-20	1.351E-20	9.438E-21	
Cf-249 2.311E-33	Cm-245	1.000E+00	2.097E-36	6.288E-36	2.715E-35	5.198E-35	1.252E-34	3.921E-34	1.023E-33	
Cf-249 4.009E-40	Pu-241	1.000E+00	0.000E+00	0.000E+00	8.646E-43	2.162E-42	1.038E-41	5.450E-41	1.669E-40	
Cf-249 0.000E+00	Am-241	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Cf-249 2.072E-28	Np-237+D	1.000E+00	1.384E-39	3.305E-38	8.404E-36	1.070E-34	3.213E-33	2.284E-31	7.512E-30	
Cf-249 5.247E-38	U-233	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.324E-42	4.809E-40	
Cf-249 1.751E-26	Th-229+D	1.000E+00	1.085E-36	6.322E-39	3.938E-37	2.556E-37	1.572E-34	1.369E-31	4.699E-29	
Cf-249 2.691E-21	%DSR(j)		1.616E-20	1.613E-20	1.599E-20	1.581E-20	1.531E-20	1.351E-20	9.438E-21	
0Cf-249 6.594E-26	Cf-249	2.450E-05	3.959E-25	3.952E-25	3.917E-25	3.875E-25	3.752E-25	3.309E-25	2.312E-25	
Cf-249 5.663E-38	Cm-245	2.450E-05	5.147E-41	1.544E-40	6.652E-40	1.274E-39	3.066E-39	9.605E-39	2.506E-38	
Cf-249	Pu-241+D	2.450E-05	1.164E-39	7.273E-39	1.199E-37	4.036E-37	1.866E-36	9.821E-36	2.991E-35	

6.953E-35										
Cf-249	Np-237+D	2.450E-05	9.342E-41	1.165E-39	7.717E-38	5.086E-37	6.082E-36	1.224E-34	1.303E-33	
1.233E-32										
Cf-249	U-233	2.450E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
3.893E-42										
Cf-249	Th-229+D	2.450E-05	2.552E-41	0.000E+00	2.448E-40	6.127E-39	4.620E-37	1.178E-34	1.333E-32	
1.646E-30										
Cf-249	%DSR(j)		3.959E-25	3.952E-25	3.917E-25	3.875E-25	3.752E-25	3.309E-25	2.312E-25	
6.594E-26										
0Cf-251	Cf-251	1.000E+00	1.894E-27	1.893E-27	1.888E-27	1.882E-27	1.864E-27	1.797E-27	1.617E-27	
1.119E-27										
Cf-251	Cm-247+D	1.000E+00	5.269E-28	1.581E-27	6.842E-27	1.314E-26	3.195E-26	1.038E-25	2.986E-25	
8.817E-25										
Cf-251	Am-243+D	1.000E+00	4.960E-39	3.140E-38	5.594E-37	2.063E-36	1.227E-35	1.327E-34	1.177E-33	
1.280E-32										
Cf-251	Pu-239	1.000E+00	0.000E+00	0.000E+00	1.051E-43	4.190E-43	6.588E-42	2.344E-40	6.285E-39	
2.359E-37										
Cf-251	U-235+D	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.190E-43	
4.894E-41										
Cf-251	Pa-231	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.359E-42	
5.554E-40										
Cf-251	Ac-227+D	1.000E+00	2.217E-41	1.297E-41	3.032E-42	2.102E-41	4.507E-41	5.061E-41	6.266E-39	
3.465E-36										
Cf-251	%DSR(j)		2.421E-27	3.474E-27	8.730E-27	1.502E-26	3.381E-26	1.056E-25	3.002E-25	
8.828E-25										
0Cf-252	Cf-252	3.092E-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										
0Cf-252	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										
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)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
0.000E+00										

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T' Limit = 30 days

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Parent Dose Report

Title : Industrial Cap Hydro

File : INDUSTRIAL CAP HYDRO.ROF

## Dose/Source Ratios Summed Over All Pathways

## Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Thread 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	0.000E+00	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	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
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
0.000E+00										
Cf-252	%DSR(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
0.000E+00										
0Cf-252	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
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
0.000E+00										
Cf-252	Pu-244+D	4.395E-08	0.000E+00	9.280E-39	1.392E-37	3.712E-37	1.123E-36	4.130E-36	1.306E-35	
4.889E-35										
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	0.000E+00	0.000E+00
0.000E+00										
Cf-252	%DSR(j)		0.000E+00	9.280E-39	1.392E-37	3.712E-37	1.123E-36	4.130E-36	1.306E-35	
4.889E-35										
0Cf-252	Cf-252	8.879E-01	9.280E-39	9.280E-39	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	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

0.000E+00										
Cf-252	Pu-244+D	8.879E-01	3.899E-32	2.306E-31	2.876E-30	7.511E-30	2.275E-29	8.331E-29	2.637E-28	
9.877E-28										
Cf-252	Pu-240	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	U-236	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	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	0.000E+00	
0.000E+00										
Cf-252	Th-228+D	8.879E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.280E-39
1.893E-36										
Cf-252	%DSR(j)		3.899E-32	2.306E-31	2.876E-30	7.511E-30	2.275E-29	8.331E-29	2.637E-28	
9.877E-28										
0Cl-36	Cl-36	1.000E+00	2.398E-28	2.393E-28	2.372E-28	2.347E-28	2.273E-28	2.008E-28	1.408E-28	
4.064E-29										
0Co-60	Co-60	1.000E+00	1.708E-14	1.498E-14	7.760E-15	3.525E-15	3.305E-16	3.317E-20	1.250E-31	
0.000E+00										
0Cs-134	Cs-134	1.000E+00	1.669E-17	1.193E-17	2.225E-18	2.966E-19	7.019E-22	4.278E-32	0.000E+00	
0.000E+00										
0Cs-137+D	Cs-137+D	1.000E+00	3.017E-18	2.948E-18	2.629E-18	2.291E-18	1.516E-18	3.042E-19	3.092E-21	
3.274E-28										
0Eu-154	Eu-154	1.000E+00	1.001E-15	9.250E-16	6.243E-16	3.895E-16	9.462E-17	3.853E-19	5.710E-26	
0.000E+00										
0Eu-155	Eu-155	1.000E+00	4.361E-37	3.794E-37	1.890E-37	8.188E-38	6.659E-39	3.209E-43	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										
0Ho-166m	Ho-166m	1.000E+00	2.111E-17	2.110E-17	2.106E-17	2.100E-17	2.085E-17	2.025E-17	1.864E-17	
1.393E-17										
0Na-22	Na-22	1.000E+00	3.091E-16	2.369E-16	6.260E-17	1.268E-17	1.052E-19	8.467E-28	0.000E+00	
0.000E+00										

0Np-237+D	Np-237+D	1.000E+00	5.801E-23	5.803E-23	5.808E-23	5.815E-23	5.836E-23	5.916E-23	6.152E-23
7.055E-23									
Np-237+D	U-233	1.000E+00	2.467E-35	7.403E-35	3.212E-34	6.184E-34	1.515E-33	5.070E-33	1.584E-32
6.157E-32									
Np-237+D	Th-229+D	1.000E+00	1.595E-26	1.010E-25	1.801E-24	6.649E-24	3.962E-23	4.328E-22	3.942E-21
4.660E-20									
Np-237	%DSR(j)		5.803E-23	5.813E-23	5.988E-23	6.480E-23	9.797E-23	4.920E-22	4.003E-21
4.667E-20									

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T' Limit = 30 days

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Parent Dose Report

Title : Industrial Cap Hydro

File : INDUSTRIAL CAP HYDRO.ROF

## Dose/Source Ratios Summed Over All Pathways

## Parent and Progeny Principal Radionuclide Contributions Indicated

0 Parent (i)	Product (j)	Thread 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	
1.387E-41										
Pb-210+D	Pb-210+D	1.000E+00	3.480E-28	3.374E-28	2.892E-28	2.403E-28	1.379E-28	1.591E-29	3.325E-32	
1.414E-35										
Pb-210+D	Po-210	1.000E+00	1.918E-22	3.399E-22	3.176E-22	2.638E-22	1.512E-22	1.735E-23	3.571E-26	
1.414E-35										
Pb-210	%DSR(j)		1.918E-22	3.399E-22	3.176E-22	2.638E-22	1.512E-22	1.735E-23	3.571E-26	
0Pm-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										
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)		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	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	1.000E+00	1.630E-41	1.618E-41	1.558E-41	1.489E-41	1.299E-41	7.655E-42	1.689E-42	
8.408E-45										
Pu-238	U-234	1.000E+00	0.000E+00	1.401E-45	4.204E-45	8.408E-45	1.962E-44	5.045E-44	8.828E-44	
1.205E-43										
Pu-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.401E-45	1.121E-44	
6.446E-44										
Pu-238	Ra-226+D	1.000E+00	2.217E-29	2.786E-28	1.937E-26	1.352E-25	1.893E-24	5.959E-23	1.163E-21	
2.078E-20										
Pu-238	Pb-210+D	1.000E+00	1.401E-45	3.363E-44	8.765E-42	1.131E-40	3.507E-39	2.654E-37	8.483E-36	
1.978E-34										
Pu-238	Po-210	1.000E+00	4.127E-40	1.516E-38	7.001E-36	1.037E-34	3.536E-33	2.793E-31	8.912E-30	
1.980E-28										
Pu-238	%DSR(j)		2.217E-29	2.786E-28	1.937E-26	1.352E-25	1.893E-24	5.959E-23	1.163E-21	
2.078E-20										
0Pu-239	Pu-239	1.000E+00	1.151E-29	1.151E-29	1.153E-29	1.154E-29	1.158E-29	1.175E-29	1.225E-29	
1.416E-29										
Pu-239	U-235+D	1.000E+00	4.581E-36	1.375E-35	5.963E-35	1.148E-34	2.812E-34	9.405E-34	2.934E-33	
1.133E-32										
Pu-239	Pa-231	1.000E+00	9.881E-38	6.258E-37	1.116E-35	4.123E-35	2.460E-34	2.704E-33	2.504E-32	
3.141E-31										
Pu-239	Ac-227+D	1.000E+00	6.259E-36	8.122E-35	5.502E-33	3.716E-32	4.745E-31	1.133E-29	1.507E-28	
2.131E-27										
Pu-239	%DSR(j)		1.151E-29	1.151E-29	1.153E-29	1.158E-29	1.206E-29	2.309E-29	1.629E-28	
2.145E-27										
0Pu-240	Pu-240	4.950E-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										
0Pu-240	Pu-240	1.000E+00	1.401E-45	1.401E-45	1.401E-45	1.401E-45	1.401E-45	1.401E-45	1.401E-45	
2.803E-45										
Pu-240	U-236	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
1.401E-45										
Pu-240	Th-232	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										

Pu-240	Ra-228+D	1.000E+00	7.264E-36	8.927E-35	5.475E-33	3.324E-32	3.314E-31	5.122E-30	5.210E-29
6.440E-28									
Pu-240	Th-228+D	1.000E+00	3.405E-33	7.593E-32	1.353E-29	1.192E-28	1.626E-27	2.935E-26	3.088E-25
3.774E-24									
Pu-240	%DSR(j)		3.412E-33	7.602E-32	1.353E-29	1.192E-28	1.626E-27	2.936E-26	3.088E-25
3.774E-24									
0Pu-241	Pu-241	1.000E+00	8.598E-39	8.197E-39	6.453E-39	4.844E-39	2.048E-39	7.199E-41	5.605E-45
0.000E+00									
Pu-241	Am-241	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									
Pu-241	Np-237+D	1.000E+00	5.584E-33	3.488E-32	5.753E-31	1.938E-30	8.977E-30	4.772E-29	1.497E-28
3.776E-28									
Pu-241	U-233	1.000E+00	1.401E-45	1.682E-44	1.096E-42	7.226E-42	8.666E-41	1.764E-39	1.940E-38
2.024E-37									
Pu-241	Th-229+D	1.000E+00	5.294E-37	1.232E-35	3.141E-33	4.008E-32	1.210E-30	8.830E-29	3.139E-27
1.121E-25									
Pu-241	%DSR(j)		5.585E-33	3.489E-32	5.785E-31	1.978E-30	1.019E-29	1.360E-28	3.289E-27
1.125E-25									

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T' Limit = 30 days

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Parent Dose Report

Title : Industrial Cap Hydro

File : INDUSTRIAL CAP HYDRO.ROF

## Dose/Source Ratios Summed Over All Pathways

Parent and Progeny Principal Radionuclide Contributions Indicated

0 Parent (i)	Product (j)	Parent and Thread 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			ffffffff	ffffffff	ffffffff	ffffffff	ffffffff	ffffffff	ffffffff
Pu-241+D	Pu-241+D	2.450E-05	1.563E-33	1.490E-33	1.173E-33	8.801E-34	3.718E-34	1.303E-35	9.047E-40
0.000E+00									
Pu-241+D	Np-237+D	2.450E-05	2.261E-34	6.650E-34	2.572E-33	4.334E-33	7.405E-33	9.678E-33	1.014E-32



1.163E-32										
Pu-241+D	U-233	2.450E-05	0.000E+00	0.000E+00	7.006E-45	2.522E-44	1.191E-43	6.642E-43	2.433E-42	
9.945E-42										
Pu-241+D	Th-229+D	2.450E-05	3.488E-38	4.350E-37	2.886E-35	1.907E-34	2.299E-33	4.794E-32	5.666E-31	
7.377E-30										
Pu-241	%DSR(j)		1.789E-33	2.156E-33	3.773E-33	5.404E-33	1.008E-32	5.763E-32	5.768E-31	
7.389E-30										
0Pu-242	Pu-242	5.500E-06	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-242	Pu-242	5.400E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
0.000E+00										
Pu-242	U-238	5.400E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
0.000E+00										
Pu-242	%DSR(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										
0Pu-242	Pu-242	9.999E-01	2.803E-44	2.803E-44	2.803E-44	2.803E-44	2.803E-44	2.803E-44	3.363E-44	
3.924E-44										
Pu-242	U-238+D	9.999E-01	8.218E-29	2.466E-28	1.069E-27	2.058E-27	5.034E-27	1.675E-26	5.151E-26	
1.892E-25										
Pu-242	U-234	9.999E-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										
Pu-242	Th-230	9.999E-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										
Pu-242	Ra-226+D	9.999E-01	8.054E-37	2.175E-36	5.736E-36	6.352E-35	2.380E-33	2.807E-31	2.257E-29	
2.839E-27										
Pu-242	Pb-210+D	9.999E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.443E-43	
2.560E-41										
Pu-242	Po-210	9.999E-01	0.000E+00	0.000E+00	1.121E-44	1.682E-44	3.608E-42	1.101E-39	1.536E-37	
2.560E-35										
Pu-242	%DSR(j)		8.218E-29	2.466E-28	1.069E-27	2.058E-27	5.034E-27	1.675E-26	5.153E-26	
1.920E-25										
0Ra-226+D	Ra-226+D	1.000E+00	3.838E-14	3.837E-14	3.831E-14	3.824E-14	3.803E-14	3.724E-14	3.505E-14	
2.837E-14										

Ra-226+D 2.931E-28	Pb-210+D	1.000E+00	5.429E-30	1.608E-29	6.463E-29	1.138E-28	2.163E-28	3.350E-28	3.373E-28
Ra-226+D 2.937E-22	Po-210	1.000E+00	2.606E-24	1.159E-23	6.439E-23	1.183E-22	2.306E-22	3.590E-22	3.563E-22
Ra-226 2.837E-14	%DSR(j)		3.838E-14	3.837E-14	3.831E-14	3.824E-14	3.803E-14	3.724E-14	3.505E-14
0Ra-228+D 0.000E+00	Ra-228+D	1.000E+00	7.634E-16	6.768E-16	3.707E-16	1.800E-16	2.062E-17	4.506E-21	1.570E-31
Ra-228+D 0.000E+00	Th-228+D	1.000E+00	7.493E-13	1.850E-12	2.679E-12	1.565E-12	1.882E-13	4.106E-17	1.421E-27
Ra-228 0.000E+00	%DSR(j)		7.501E-13	1.851E-12	2.680E-12	1.565E-12	1.882E-13	4.107E-17	1.421E-27
0Ru-106+D 0.000E+00	Ru-106+D	1.000E+00	5.531E-19	2.778E-19	8.876E-21	1.423E-22	5.841E-28	0.000E+00	0.000E+00
0Sb-125 0.000E+00	Sb-125	7.720E-01	4.215E-19	3.276E-19	9.294E-20	2.049E-20	2.195E-22	4.766E-30	0.000E+00
0Sb-125 0.000E+00	Sb-125	2.280E-01	1.245E-19	9.676E-20	2.745E-20	6.052E-21	6.483E-23	1.408E-30	0.000E+00
Sb-125 0.000E+00	Te-125m	2.280E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Sb-125 0.000E+00	%DSR(j)		1.245E-19	9.676E-20	2.745E-20	6.052E-21	6.483E-23	1.408E-30	0.000E+00
0Sm-151 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 8.408E-45	Sn-121m+D	1.000E+00	1.931E-39	1.908E-39	1.794E-39	1.667E-39	1.336E-39	5.658E-40	4.856E-41

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T' Limit = 30 days

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Parent Dose Report

Title : Industrial Cap Hydro

File : INDUSTRIAL CAP HYDRO.ROF

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

0	Parent (i)	Product (j)	Thread 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	
1.218E-17	Sn-126+D	Sn-126+D	1.000E+00	1.041E-17	1.041E-17	1.042E-17	1.043E-17	1.046E-17	1.058E-17	1.091E-17	
0.000E+00	0Sr-90+D	Sr-90+D	1.000E+00	1.318E-24	1.287E-24	1.144E-24	9.928E-25	6.492E-25	1.244E-25	1.110E-27	
0.000E+00	0Th-228+D	Th-228+D	1.000E+00	4.158E-12	2.895E-12	4.737E-13	5.397E-14	7.969E-17	7.753E-28	0.000E+00	
2.288E-38	0Th-230	Th-230	1.000E+00	1.665E-38	1.665E-38	1.668E-38	1.671E-38	1.681E-38	1.719E-38	1.831E-38	
1.532E-14	Th-230	Ra-226+D	1.000E+00	8.314E-18	2.494E-17	1.080E-16	2.076E-16	5.058E-16	1.656E-15	4.867E-15	
1.520E-28	Th-230	Pb-210+D	1.000E+00	8.863E-34	5.564E-33	9.441E-32	3.285E-31	1.656E-30	1.074E-29	4.150E-29	
1.522E-22	Th-230	Po-210	1.000E+00	3.402E-28	3.264E-27	8.668E-26	3.265E-25	1.730E-24	1.142E-23	4.374E-23	
1.532E-14	Th-230	%DSR(j)		8.314E-18	2.494E-17	1.080E-16	2.076E-16	5.058E-16	1.656E-15	4.867E-15	
1.418E-42	0Th-232	Th-232	1.000E+00	9.935E-43	9.935E-43	9.935E-43	9.935E-43	9.935E-43	9.935E-43	1.135E-42	
9.365E-16	Th-232	Ra-228+D	1.000E+00	4.669E-17	1.334E-16	4.400E-16	6.314E-16	7.930E-16	8.219E-16	8.461E-16	
5.518E-12	Th-232	Th-228+D	1.000E+00	3.555E-14	1.984E-13	1.793E-12	3.331E-12	4.771E-12	4.997E-12	5.109E-12	
5.519E-12	Th-232	%DSR(j)		3.560E-14	1.985E-13	1.793E-12	3.331E-12	4.772E-12	4.998E-12	5.109E-12	
1.391E-29	0U-233	U-233	1.000E+00	1.128E-29	1.129E-29	1.130E-29	1.131E-29	1.135E-29	1.152E-29	1.201E-29	
2.093E-17	U-233	Th-229+D	1.000E+00	9.710E-21	2.913E-20	1.263E-19	2.430E-19	5.936E-19	1.966E-18	5.967E-18	

U-233 2.093E-17	%DSR(j)		9.710E-21	2.913E-20	1.263E-19	2.430E-19	5.936E-19	1.966E-18	5.967E-18
0U-234 3.331E-40	U-234	1.000E+00	2.450E-40	2.451E-40	2.455E-40	2.459E-40	2.473E-40	2.526E-40	2.687E-40
U-234 2.037E-40	Th-230	1.000E+00	7.427E-44	2.242E-43	9.767E-43	1.881E-42	4.613E-42	1.553E-41	4.937E-41
U-234 7.326E-17	Ra-226+D	1.000E+00	2.812E-23	1.780E-22	3.172E-21	1.170E-20	6.958E-20	7.540E-19	6.707E-18
U-234 7.031E-31	Pb-210+D	1.000E+00	2.226E-39	2.785E-38	1.885E-36	1.274E-35	1.630E-34	3.906E-33	5.168E-32
U-234 7.037E-25	Po-210	1.000E+00	7.302E-34	1.402E-32	1.608E-30	1.214E-29	1.672E-28	4.132E-27	5.437E-26
U-234 7.326E-17	%DSR(j)		2.812E-23	1.780E-22	3.172E-21	1.170E-20	6.958E-20	7.540E-19	6.707E-18
0U-235+D 1.150E-26	U-235+D	1.000E+00	9.303E-27	9.305E-27	9.314E-27	9.326E-27	9.362E-27	9.502E-27	9.914E-27
U-235+D 6.383E-25	Pa-231	1.000E+00	2.671E-28	8.014E-28	3.476E-27	6.692E-27	1.638E-26	5.465E-26	1.693E-25
U-235+D 4.466E-21	Ac-227+D	1.000E+00	2.367E-26	1.486E-25	2.519E-24	8.757E-24	4.406E-23	2.851E-22	1.122E-21
U-235 4.467E-21	%DSR(j)		3.324E-26	1.587E-25	2.532E-24	8.773E-24	4.408E-23	2.852E-22	1.122E-21
0U-236 2.749E-41	U-236	1.000E+00	2.003E-41	2.003E-41	2.007E-41	2.010E-41	2.022E-41	2.067E-41	2.202E-41
U-236 0.000E+00	Th-232	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-236 4.518E-23	Ra-228+D	1.000E+00	8.755E-28	5.367E-27	7.990E-26	2.420E-25	8.993E-25	3.734E-24	1.214E-23
U-236 2.655E-19	Th-228+D	1.000E+00	5.008E-25	5.738E-24	2.433E-22	1.022E-21	4.833E-21	2.202E-20	7.264E-20
U-236 2.655E-19	%DSR(j)		5.017E-25	5.743E-24	2.434E-22	1.023E-21	4.833E-21	2.203E-20	7.265E-20
0U-238	U-238	5.400E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0.000E+00  
1RESRAD-OFFSITE, Version 2.6                    T' Limit = 30 days                    09/19/2012 15:16 Page 89  
Parent Dose Report  
Title : Industrial Cap Hydro  
File : INDUSTRIAL CAP HYDRO.ROF

Dose/Source Ratios Summed Over All Pathways										
Parent and Progeny Principal Radionuclide Contributions Indicated										
0	Parent (i)	Product (j)	Thread 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
	U-238+D	U-238+D	9.999E-01	1.059E-18	1.059E-18	1.060E-18	1.061E-18	1.063E-18	1.073E-18	1.100E-18
1.203E-18	U-238+D	U-234	9.999E-01	0.000E+00	1.401E-45	4.204E-45	8.408E-45	2.102E-44	7.147E-44	2.284E-43
9.459E-43	U-238+D	Th-230	9.999E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.803E-45	2.102E-44
2.887E-43	U-238+D	Ra-226+D	9.999E-01	2.254E-29	2.792E-28	1.962E-26	1.386E-25	2.008E-24	7.184E-23	1.923E-21
7.142E-20	U-238+D	Pb-210+D	9.999E-01	4.204E-45	2.943E-44	8.848E-42	1.154E-40	3.682E-39	3.121E-37	1.355E-35
6.641E-34	U-238+D	Po-210	9.999E-01	5.923E-39	1.486E-38	7.065E-36	1.057E-34	3.709E-33	3.282E-31	1.422E-29
6.643E-28	U-238	%DSR(j)		1.059E-18	1.059E-18	1.060E-18	1.061E-18	1.063E-18	1.073E-18	1.102E-18
1.274E-18										
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                    09/19/2012 15:16 Page 90  
Parent Dose Report  
Title : Industrial Cap Hydro

File : INDUSTRIAL CAP HYDRO.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	ffffff
Ac-227		*7.232E+13	*7.232E+13	*7.232E+13	*7.232E+13	*7.232E+13	*7.232E+13	*7.232E+13	*7.232E+13
Al-26		*1.921E+10	*1.921E+10	*1.921E+10	*1.921E+10	*1.921E+10	*1.921E+10	*1.921E+10	*1.921E+10
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		*4.094E+12	*4.094E+12	*4.094E+12	*4.094E+12	*4.094E+12	*4.094E+12	*4.094E+12	*4.094E+12
Cf-251		*1.586E+12	*1.586E+12	*1.586E+12	*1.586E+12	*1.586E+12	*1.586E+12	*1.586E+12	*1.586E+12
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		8.781E+14	1.002E+15	*1.132E+15	*1.132E+15	*1.132E+15	*1.132E+15	*1.132E+15	*1.132E+15
Cs-134		*1.295E+15	*1.295E+15	*1.295E+15	*1.295E+15	*1.295E+15	*1.295E+15	*1.295E+15	*1.295E+15
Cs-137		*8.704E+13	*8.704E+13	*8.704E+13	*8.704E+13	*8.704E+13	*8.704E+13	*8.704E+13	*8.704E+13
Eu-154		*2.639E+14	*2.639E+14	*2.639E+14	*2.639E+14	*2.639E+14	*2.639E+14	*2.639E+14	*2.639E+14
Eu-155		*4.652E+14	*4.652E+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		*1.795E+12	*1.795E+12	*1.795E+12	*1.795E+12	*1.795E+12	*1.795E+12	*1.795E+12	*1.795E+12
Na-22		*6.247E+15	*6.247E+15	*6.247E+15	*6.247E+15	*6.247E+15	*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		*7.634E+13	*7.634E+13	*7.634E+13	*7.634E+13	*7.634E+13	*7.634E+13	*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	*1.712E+13	*1.712E+13
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		*9.885E+11	*9.885E+11	*9.885E+11	*9.885E+11	*9.885E+11	*9.885E+11	*9.885E+11	*9.885E+11
Ra-228		2.000E+13	8.106E+12	5.598E+12	9.586E+12	7.969E+13	*2.726E+14	*2.726E+14	*2.726E+14
Ru-106		*3.348E+15	*3.348E+15	*3.348E+15	*3.348E+15	*3.348E+15	*3.348E+15	*3.348E+15	*3.348E+15

Sb-125	*1.033E+15	*1.033E+15	*1.033E+15	*1.033E+15	*1.033E+15	*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	*2.839E+10	*2.839E+10	*2.839E+10	*2.839E+10	*2.839E+10	*2.839E+10	*2.839E+10	*2.839E+10
Sr-90	*1.365E+14	*1.365E+14	*1.365E+14	*1.365E+14	*1.365E+14	*1.365E+14	*1.365E+14	*1.365E+14
Th-228	3.608E+12	5.181E+12	3.166E+13	2.780E+14	*8.195E+14	*8.195E+14	*8.195E+14	*8.195E+14
Th-230	*2.018E+10	*2.018E+10	*2.018E+10	*2.018E+10	*2.018E+10	*2.018E+10	*2.018E+10	*2.018E+10
Th-232	*1.097E+05	*1.097E+05	*1.097E+05	*1.097E+05	*1.097E+05	*1.097E+05	*1.097E+05	*1.097E+05
U-233	*9.678E+09	*9.678E+09	*9.678E+09	*9.678E+09	*9.678E+09	*9.678E+09	*9.678E+09	*9.678E+09
U-234	*6.247E+09	*6.247E+09	*6.247E+09	*6.247E+09	*6.247E+09	*6.247E+09	*6.247E+09	*6.247E+09
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

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T' Limit = 30 days

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Parent Dose Report

Title : Industrial Cap Hydro

File : INDUSTRIAL CAP HYDRO.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 = 4.02 years

0Nuclide	Initial	tmin	DSR(i,tmin)	G(i,tmin)	DSR(i,tmax)	G(i,tmax)
(i)	(pCi/g)	(years)		(pCi/g)		(pCi/g)
ffffff	ffffff	ffffff	ffffff	ffffff	ffffff	ffffff
Ac-227	2.340E+00	0	1.857E-19	*7.232E+13	1.635E-19	*7.232E+13
Al-26	7.640E+02	1030	7.794E-14	1.924E+14	6.825E-14	*1.921E+10
Am-241	1.410E+03	1030	3.865E-24	*3.431E+12	8.519E-29	*3.431E+12
Cf-249	3.240E-03	0	1.616E-20	*4.094E+12	3.208E-20	*4.094E+12
Cf-251	1.340E-02	1030	9.047E-25	*1.586E+12	6.653E-27	*1.586E+12
Cf-252	1.510E-07	1030	1.022E-27	*5.376E+14	1.598E-30	*5.376E+14

Cl-36	2.790E-01	0	2.398E-28	*3.302E+10	2.381E-28	*3.302E+10
Co-60	4.860E+00	0	1.708E-14	8.781E+14	1.006E-14	*1.132E+15
Cs-134	2.620E-06	0	1.669E-17	*1.295E+15	4.319E-18	*1.295E+15
Cs-137	3.050E+03	0	3.017E-18	4.972E+18	2.751E-18	*8.704E+13
Eu-154	9.920E-03	0	1.001E-15	*2.639E+14	7.293E-16	*2.639E+14
Eu-155	8.720E-03	0	4.361E-37	*4.652E+14	2.489E-37	*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	2.111E-17	*1.795E+12	2.107E-17	*1.795E+12
Na-22	1.120E-03	0	3.091E-16	*6.247E+15	1.059E-16	*6.247E+15
Np-237	1.620E-03	1030	4.960E-20	*7.047E+08	5.894E-23	*7.047E+08
Pb-210	2.850E+00	2.01	3.545E-22	*7.634E+13	3.375E-22	*7.634E+13
Pm-147	1.370E-08	0	0.000E+00	*9.275E+14	0.000E+00	*9.275E+14
Pu-238	1.470E+04	1030	2.217E-20	6.767E+20	6.607E-27	*1.712E+13
Pu-239	9.250E+03	1030	2.286E-27	*6.214E+10	1.152E-29	*6.214E+10
Pu-240	2.380E+03	1030	4.010E-24	*2.278E+11	3.774E-30	*2.278E+11
Pu-241	3.820E+03	1030	1.222E-25	*1.030E+14	5.810E-31	*1.030E+14
Pu-242	2.520E-01	1030	1.988E-25	*3.925E+09	7.438E-28	*3.925E+09
Ra-226	3.850E+00	0	3.838E-14	*9.885E+11	3.833E-14	*9.885E+11
Ra-228	4.190E+00	4.02	2.849E-12	5.265E+12	2.849E-12	5.265E+12
Ru-106	7.770E-09	0	5.531E-19	*3.348E+15	3.453E-20	*3.348E+15
Sb-125	5.400E-04	0	5.460E-19	*1.033E+15	3.509E-19	*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	1.931E-39	*5.376E+13	1.838E-39	*5.376E+13
Sn-126	1.220E-01	1030	1.223E-17	*2.839E+10	1.042E-17	*2.839E+10
Sr-90	4.300E+02	0	1.318E-24	*1.365E+14	1.198E-24	*1.365E+14
Th-228	8.930E-03	0	4.158E-12	*8.195E+14	9.682E-13	1.549E+13
Th-230	8.370E+01	1030	1.573E-14	*2.018E+10	7.519E-17	*2.018E+10
Th-232	9.880E-03	1030	5.537E-12	*1.097E+05	1.128E-12	*1.097E+05
U-233	2.790E+00	1030	2.159E-17	*9.678E+09	8.787E-20	*9.678E+09
U-234	4.260E+01	1030	7.761E-17	*6.247E+09	1.541E-21	*6.247E+09
U-235	2.180E+02	1030	4.622E-21	*2.161E+06	1.260E-24	*2.161E+06
U-236	4.070E-01	1030	2.742E-19	*6.468E+07	1.004E-22	*6.468E+07
U-238	5.350E+01	1030	1.285E-18	*3.361E+05	1.060E-18	*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 Cap Hydro

File : INDUSTRIAL CAP HYDRO.ROF

# Individual Nuclide Dose Summed Over All Pathways

Parent Nuclide and Thread Fraction Indicated

0Nuclide (j)	Parent (i)	THF(i)	DOSE(j,t), mrem/yr								
			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	4.346E-19	4.211E-19	3.594E-19	2.972E-19	1.681E-19	1.831E-20	3.252E-23		
Ac-227	Cf-251	1.000E+00	2.971E-43	1.738E-43	4.064E-44	2.817E-43	6.040E-43	6.782E-43	8.396E-41		
Ac-227	Pu-239	1.000E+00	5.789E-32	7.513E-31	5.090E-29	3.438E-28	4.389E-27	1.048E-25	1.394E-24		
Ac-227	U-235	1.000E+00	5.160E-24	3.239E-23	5.491E-22	1.909E-21	9.605E-21	6.216E-20	2.446E-19		
Ac-227	%DOSE(j):		4.346E-19	4.211E-19	3.600E-19	2.991E-19	1.777E-19	8.048E-20	2.447E-19		
Al-26	Al-26	1.000E+00	5.212E-11	5.212E-11	5.216E-11	5.220E-11	5.232E-11	5.280E-11	5.418E-11		
Am-241	Am-241	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
Am-241	Cf-249	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
Am-241	Pu-241	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

Am-241	%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	0.000E+00
0Np-237	Am-241	1.000E+00	1.324E-26	3.970E-26	1.715E-25	3.287E-25	7.934E-25	2.509E-24	6.709E-24	
1.612E-23										
Np-237	Cf-249	1.000E+00	4.484E-42	1.071E-40	2.723E-38	3.468E-37	1.041E-35	7.401E-34	2.434E-32	
6.714E-31										
Np-237	Cf-249	2.450E-05	3.027E-43	3.775E-42	2.500E-40	1.648E-39	1.971E-38	3.967E-37	4.223E-36	
3.994E-35										
Np-237	Np-237	1.000E+00	9.398E-26	9.400E-26	9.409E-26	9.420E-26	9.454E-26	9.584E-26	9.967E-26	
1.143E-25										
Np-237	Pu-241	1.000E+00	2.133E-29	1.332E-28	2.198E-27	7.403E-27	3.429E-26	1.823E-25	5.720E-25	
1.442E-24										
Np-237	Pu-241	2.450E-05	8.637E-31	2.540E-30	9.823E-30	1.655E-29	2.829E-29	3.697E-29	3.875E-29	
4.444E-29										
Np-237	%DOSE(j):		1.072E-25	1.338E-25	2.678E-25	4.303E-25	9.223E-25	2.787E-24	7.381E-24	
1.767E-23										
0U-233	Am-241	1.000E+00	4.232E-39	2.678E-38	4.766E-37	1.755E-36	1.039E-35	1.104E-34	9.336E-34	
8.852E-33										
U-233	Cf-249	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.401E-44	1.558E-42	
1.700E-40										
U-233	Cf-249	2.450E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
1.261E-44										
U-233	Np-237	1.000E+00	3.997E-38	1.199E-37	5.203E-37	1.002E-36	2.454E-36	8.213E-36	2.567E-35	
9.975E-35										
U-233	Pu-241	1.000E+00	5.067E-42	6.316E-41	4.185E-39	2.761E-38	3.310E-37	6.739E-36	7.410E-35	
7.731E-34										
U-233	Pu-241	2.450E-05	2.775E-43	1.732E-42	2.866E-41	9.689E-41	4.540E-40	2.539E-39	9.292E-39	
3.799E-38										
U-233	U-233	1.000E+00	3.148E-29	3.149E-29	3.152E-29	3.156E-29	3.168E-29	3.215E-29	3.352E-29	
3.881E-29										
U-233	%DOSE(j):		3.148E-29	3.149E-29	3.152E-29	3.156E-29	3.168E-29	3.215E-29	3.352E-29	
3.882E-29										
0Th-229	Am-241	1.000E+00	2.029E-30	2.554E-29	1.789E-27	1.262E-26	1.818E-25	6.371E-24	1.610E-22	

5.012E-21  
Th-229 Cf-249 1.000E+00 3.516E-39 2.048E-41 1.276E-39 8.282E-40 5.092E-37 4.436E-34 1.523E-31  
5.673E-29  
Th-229 Cf-249 2.450E-05 8.268E-44 0.000E+00 7.931E-43 1.985E-41 1.497E-39 3.818E-37 4.320E-35  
5.333E-33  
Th-229 Np-237 1.000E+00 2.585E-29 1.636E-28 2.918E-27 1.077E-26 6.418E-26 7.012E-25 6.385E-24  
7.550E-23  
Th-229 Pu-241 1.000E+00 2.022E-33 4.706E-32 1.200E-29 1.531E-28 4.624E-27 3.373E-25 1.199E-23  
4.284E-22  
Th-229 Pu-241 2.450E-05 1.333E-34 1.662E-33 1.102E-31 7.285E-31 8.783E-30 1.831E-28 2.165E-27  
2.818E-26  
Th-229 U-233 1.000E+00 2.709E-20 8.127E-20 3.523E-19 6.778E-19 1.656E-18 5.485E-18 1.665E-17  
5.838E-17  
Th-229 %DOSE(j): 2.709E-20 8.127E-20 3.523E-19 6.778E-19 1.656E-18 5.485E-18 1.665E-17  
5.839E-17  
0Cf-249 Cf-249 5.200E-09 2.722E-31 2.718E-31 2.693E-31 2.664E-31 2.580E-31 2.276E-31 1.590E-31  
4.534E-32  
Cf-249 Cf-249 1.000E+00 5.235E-23 5.226E-23 5.179E-23 5.124E-23 4.961E-23 4.376E-23 3.058E-23  
8.720E-24  
Cf-249 %DOSE(j): 5.235E-23 5.226E-23 5.179E-23 5.124E-23 4.961E-23 4.376E-23 3.058E-23  
8.720E-24

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Parent Dose Report  
Title : Industrial Cap Hydro  
File : INDUSTRIAL CAP HYDRO.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  
ffffff fffffff fffffff fffffff fffffff fffffff fffffff fffffff  
ffffff

Cm-245 Cf-249	1.000E+00	6.795E-39	2.037E-38	8.796E-38	1.684E-37	4.055E-37	1.270E-36	3.314E-36
7.489E-36								
Cm-245 %DOSE(j):		6.795E-39	2.037E-38	8.796E-38	1.684E-37	4.055E-37	1.270E-36	3.314E-36
7.489E-36								
0Pu-241 Cf-249	1.000E+00	0.000E+00	0.000E+00	2.803E-45	7.006E-45	3.363E-44	1.766E-43	5.409E-43
1.299E-42								
Pu-241 Cf-249	2.450E-05	3.772E-42	2.356E-41	3.885E-40	1.308E-39	6.045E-39	3.182E-38	9.691E-38
2.253E-37								
Pu-241 Pu-241	1.000E+00	3.285E-35	3.131E-35	2.465E-35	1.850E-35	7.823E-36	2.750E-37	1.928E-41
+00								0.000E
Pu-241 %DOSE(j):		3.285E-35	3.131E-35	2.465E-35	1.850E-35	7.829E-36	3.068E-37	9.693E-38
2.253E-37								
0Cf-249 Cf-249	2.450E-05	1.283E-27	1.280E-27	1.269E-27	1.255E-27	1.216E-27	1.072E-27	7.492E-28
2.136E-28								
0Cm-245 Cf-249	2.450E-05	1.668E-43	5.003E-43	2.155E-42	4.127E-42	9.935E-42	3.112E-41	8.119E-41
1.835E-40								
0Cf-251 Cf-251	1.000E+00	2.538E-29	2.537E-29	2.530E-29	2.522E-29	2.498E-29	2.408E-29	2.167E-29
1.500E-29								
0Cm-247 Cf-251	1.000E+00	7.061E-30	2.118E-29	9.168E-29	1.761E-28	4.281E-28	1.391E-27	4.001E-27
1.182E-26								
0Am-243 Cf-251	1.000E+00	6.646E-41	4.207E-40	7.496E-39	2.765E-38	1.644E-37	1.779E-36	1.577E-35
1.715E-34								
0Pu-239 Cf-251	1.000E+00	0.000E+00	0.000E+00	1.401E-45	5.605E-45	8.828E-44	3.140E-42	8.422E-41
3.162E-39								
Pu-239 Pu-239	1.000E+00	1.065E-25	1.065E-25	1.066E-25	1.067E-25	1.071E-25	1.087E-25	1.133E-25
1.310E-25								
Pu-239 %DOSE(j):		1.065E-25	1.065E-25	1.066E-25	1.067E-25	1.071E-25	1.087E-25	1.133E-25
1.310E-25								
0U-235 Cf-251	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.605E-45
6.558E-43								
U-235 Pu-239	1.000E+00	4.238E-32	1.271E-31	5.516E-31	1.062E-30	2.601E-30	8.700E-30	2.714E-29
1.048E-28								
U-235 U-235	1.000E+00	2.028E-24	2.028E-24	2.031E-24	2.033E-24	2.041E-24	2.071E-24	2.161E-24

2.507E-24

U-235 %DOSE(j): 2.028E-24 2.028E-24 2.031E-24 2.033E-24 2.041E-24 2.071E-24 2.161E-24

2.507E-24

0Pa-231 Cf-251 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.822E-44

7.442E-42

Pa-231 Pu-239 1.000E+00 9.140E-34 5.789E-33 1.033E-31 3.814E-31 2.276E-30 2.501E-29 2.317E-28

2.905E-27

Pa-231 U-235 1.000E+00 5.823E-26 1.747E-25 7.577E-25 1.459E-24 3.571E-24 1.191E-23 3.691E-23

1.391E-22

Pa-231 %DOSE(j): 5.823E-26 1.747E-25 7.577E-25 1.459E-24 3.571E-24 1.191E-23 3.691E-23

1.392E-22

0Cf-252 Cf-252 3.092E-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 0.000E+00

Cf-252 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 0.000E+00

Cf-252 %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 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 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 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 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 0.000E+00 0.000E+00

0Cf-252 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

Cf-252 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 0.000E+00

Cf-252 %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 0.000E+00 0.000E+00

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T' Limit = 30 days

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Parent Dose Report

Title : Industrial Cap Hydro  
File : INDUSTRIAL CAP HYDRO.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
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	0.000E+00	1.401E-45	2.102E-44	5.605E-44	1.696E-43	6.236E-43	1.972E-42		
0Pu-244	%DOSE(j):	7.382E-42	0.000E+00	1.401E-45	2.102E-44	5.605E-44	1.696E-43	6.236E-43	1.972E-42		
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	0.000E+00	0.000E+00
0Pu-240	Pu-240	4.950E-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	0.000E+00
0Pu-240	%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	0.000E+00	0.000E+00
0Cf-252	Cf-252	8.879E-01	1.401E-45	1.401E-45	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	8.879E-01	5.887E-39	3.481E-38	4.343E-37	1.134E-36	3.436E-36	1.258E-35	3.982E-35		
0Pu-240	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
0U-236	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
0U-236	Pu-240	1.000E+00	1.401E-45	2.803E-45	9.809E-45	1.822E-44	4.344E-44	1.457E-43	4.610E-43		

1.865E-42												
U-236	U-236	1.000E+00	8.151E-42	8.154E-42	8.167E-42	8.182E-42	8.230E-42	8.413E-42	8.964E-42			
1.119E-41												
U-236	%DOSE(j):		8.153E-42	8.157E-42	8.177E-42	8.200E-42	8.273E-42	8.559E-42	9.425E-42			
1.305E-41												
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	0.000E+00
+00												
Th-232	Pu-240	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	0.000E+00
+00												
Th-232	Th-232	1.000E+00	9.809E-45	9.809E-45	9.809E-45	9.809E-45	9.809E-45	9.809E-45	9.809E-45	1.121E-44		
1.401E-44												
Th-232	U-236	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	0.000E+00
+00												
Th-232	%DOSE(j):		9.809E-45	9.809E-45	9.809E-45	9.809E-45	9.809E-45	9.809E-45	9.809E-45	1.121E-44		
1.401E-44												
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	0.000E+00	0.000E+00	0.000E+00	0.000E+00
+00												
Ra-228	Pu-240	1.000E+00	1.729E-32	2.125E-31	1.303E-29	7.910E-29	7.888E-28	1.219E-26	1.240E-25			
1.533E-24												
Ra-228	Ra-228	1.000E+00	3.198E-15	2.836E-15	1.553E-15	7.543E-16	8.638E-17	1.888E-20	6.578E-31	0.000E+00		
+00												
Ra-228	Th-232	1.000E+00	4.613E-19	1.318E-18	4.348E-18	6.239E-18	7.835E-18	8.120E-18	8.359E-18			
9.252E-18												
Ra-228	U-236	1.000E+00	3.563E-28	2.184E-27	3.252E-26	9.848E-26	3.660E-25	1.520E-24	4.943E-24			
1.839E-23												
Ra-228	%DOSE(j):		3.199E-15	2.837E-15	1.558E-15	7.606E-16	9.422E-17	8.139E-18	8.359E-18			
9.252E-18												
0Th-228	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	1.401E-45		
2.859E-43												
Th-228	Pu-240	1.000E+00	8.104E-30	1.807E-28	3.219E-26	2.837E-25	3.870E-24	6.986E-23	7.348E-22			
8.981E-21												
Th-228	Ra-228	1.000E+00	3.140E-12	7.751E-12	1.123E-11	6.556E-12	7.886E-13	1.721E-16	5.952E-27	0.000E+00		
+00												

Th-228 Th-228 1.000E+00 3.713E-14 2.585E-14 4.230E-15 4.819E-16 7.116E-19 6.924E-30 0.000E+00 0.000E+00  
 Th-228 Th-232 1.000E+00 3.513E-16 1.960E-15 1.771E-14 3.291E-14 4.713E-14 4.937E-14 5.047E-14  
 5.452E-14  
 Th-228 U-236 1.000E+00 2.038E-25 2.335E-24 9.901E-23 4.161E-22 1.967E-21 8.963E-21 2.957E-20  
 1.081E-19  
 Th-228 %DOSE(j): 3.177E-12 7.779E-12 1.125E-11 6.589E-12 8.357E-13 4.955E-14 5.047E-14  
 5.452E-14  
 0Cl-36 Cl-36 1.000E+00 6.690E-29 6.678E-29 6.619E-29 6.549E-29 6.343E-29 5.602E-29 3.928E-29  
 1.134E-29  
 1RESRAD-OFFSITE, Version 2.6 T Limit = 30 days 09/19/2012 15:16 Page 95  
 Parent Dose Report  
 Title : Industrial Cap Hydro  
 File : INDUSTRIAL CAP HYDRO.ROF

Individual Nuclide Dose Summed Over All Pathways  
 Parent Nuclide and Thread Fraction Indicated

0Nuclide (j)	Parent (i)	THF(i)	DOSE(j,t), mrem/yr									
			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	8.302E-14	7.279E-14	3.772E-14	1.713E-14	1.606E-15	1.612E-19	6.075E-31	0.000E+00	0.000E+00	
0Cs-134	Cs-134	1.000E+00	4.373E-23	3.126E-23	5.830E-24	7.772E-25	1.839E-27	1.121E-37	0.000E+00	0.000E+00	0.000E+00	
0Cs-137	Cs-137	1.000E+00	9.201E-15	8.992E-15	8.018E-15	6.987E-15	4.623E-15	9.277E-16	9.430E-18	9.986E-25	0.000E+00	
0Eu-154	Eu-154	1.000E+00	9.926E-18	9.176E-18	6.193E-18	3.864E-18	9.386E-19	3.822E-21	5.665E-28	0.000E+00	0.000E+00	
0Eu-155	Eu-155	1.000E+00	3.803E-39	3.308E-39	1.648E-39	7.140E-40	5.807E-41	2.803E-45	0.000E+00	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 1.060E-17 1.059E-17 1.057E-17 1.054E-17 1.047E-17 1.017E-17 9.355E-18  
6.995E-18

0Na-22 Na-22 1.000E+00 3.462E-19 2.653E-19 7.011E-20 1.420E-20 1.178E-22 9.483E-31 0.000E+00 0.000E  
+00

0Pb-210 Pb-210 1.000E+00 9.918E-28 9.616E-28 8.242E-28 6.849E-28 3.930E-28 4.534E-29 9.475E-32  
3.953E-41

Pb-210 Pu-238 1.000E+00 2.092E-41 5.010E-40 1.288E-37 1.662E-36 5.155E-35 3.901E-33 1.247E-31  
2.908E-30

Pb-210 Pu-242 9.999E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.643E-44  
6.452E-42

Pb-210 Ra-226 1.000E+00 2.090E-29 6.190E-29 2.488E-28 4.380E-28 8.328E-28 1.290E-27 1.299E-27  
1.128E-27

Pb-210 Th-230 1.000E+00 7.419E-32 4.657E-31 7.902E-30 2.750E-29 1.386E-28 8.986E-28 3.473E-27  
1.272E-26

Pb-210 U-234 1.000E+00 9.483E-38 1.186E-36 8.029E-35 5.427E-34 6.944E-33 1.664E-31 2.202E-30  
2.995E-29

Pb-210 U-238 9.999E-01 2.284E-43 1.593E-42 4.733E-40 6.171E-39 1.970E-37 1.670E-35 7.247E-34  
3.553E-32

Pb-210 %DOSE(j): 1.013E-27 1.024E-27 1.081E-27 1.150E-27 1.364E-27 2.234E-27 4.774E-27  
1.388E-26

0Po-210 Pb-210 1.000E+00 5.465E-22 9.688E-22 9.052E-22 7.519E-22 4.309E-22 4.944E-23 1.018E-25  
4.029E-35

Po-210 Pu-238 1.000E+00 6.067E-36 2.229E-34 1.029E-31 1.524E-30 5.197E-29 4.105E-27 1.310E-25  
2.910E-24

Po-210 Pu-242 9.999E-01 0.000E+00 0.000E+00 2.803E-45 4.204E-45 9.094E-43 2.775E-40 3.872E-38  
6.451E-36

Po-210 Ra-226 1.000E+00 1.003E-23 4.463E-23 2.479E-22 4.555E-22 8.878E-22 1.382E-21 1.372E-21  
1.131E-21

Po-210 Th-230 1.000E+00 2.848E-26 2.732E-25 7.255E-24 2.733E-23 1.448E-22 9.562E-22 3.661E-21  
1.274E-20

Po-210 U-234 1.000E+00 3.111E-32 5.971E-31 6.851E-29 5.173E-28 7.121E-27 1.760E-25 2.316E-24  
2.998E-23

Po-210	U-238	9.999E-01	3.169E-37	7.951E-37	3.780E-34	5.653E-33	1.984E-31	1.756E-29	7.608E-28
3.554E-26									
Po-210	%DOSE(j):		5.566E-22	1.014E-21	1.160E-21	1.235E-21	1.464E-21	2.388E-21	5.035E-21
1.391E-20									
0Pm-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
+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
+00									
0Pu-238	Pu-238	1.840E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
+00									
Pu-238	Pu-238	1.000E+00	2.396E-37	2.378E-37	2.290E-37	2.188E-37	1.910E-37	1.125E-37	2.482E-38
1.251E-40									
Pu-238	%DOSE(j):		2.396E-37	2.378E-37	2.290E-37	2.188E-37	1.910E-37	1.125E-37	2.482E-38
1.251E-40									

1RESRAD-OFFSITE, Version 2.6

T' Limit = 30 days

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Parent Dose Report

Title : Industrial Cap Hydro

File : INDUSTRIAL CAP HYDRO.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	5.091E-42	1.523E-41	6.481E-41	1.220E-40	2.794E-40	7.313E-40	1.289E-39		
1.763E-39											
U-234	Pu-242	9.999E-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											
U-234	U-234	1.000E+00	1.044E-38	1.044E-38	1.046E-38	1.048E-38	1.053E-38	1.076E-38	1.144E-38		
1.419E-38											
U-234	U-238	9.999E-01	1.822E-44	5.605E-44	2.424E-43	4.666E-43	1.143E-42	3.852E-42	1.225E-41		

5.061E-41  
 U-234 %DOSE(j): 1.044E-38 1.046E-38 1.052E-38 1.060E-38 1.081E-38 1.150E-38 1.275E-38  
 1.600E-38  
 0Th-230 Pu-238 1.000E+00 1.401E-45 7.006E-45 1.303E-43 4.736E-43 2.712E-42 2.540E-41 1.612E-40  
 9.407E-40  
 Th-230 Pu-242 9.999E-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  
 +00  
 Th-230 Th-230 1.000E+00 1.394E-36 1.394E-36 1.396E-36 1.399E-36 1.407E-36 1.439E-36 1.533E-36  
 1.915E-36  
 Th-230 U-234 1.000E+00 3.194E-42 9.581E-42 4.158E-41 8.010E-41 1.965E-40 6.616E-40 2.103E-39  
 8.677E-39  
 Th-230 U-238 9.999E-01 0.000E+00 0.000E+00 0.000E+00 1.401E-45 1.121E-44 1.191E-43 1.125E-42  
 1.541E-41  
 Th-230 %DOSE(j): 1.394E-36 1.394E-36 1.396E-36 1.399E-36 1.407E-36 1.439E-36 1.535E-36  
 1.924E-36  
 0Ra-226 Pu-238 1.000E+00 3.258E-25 4.096E-24 2.847E-22 1.988E-21 2.783E-20 8.760E-19 1.710E-17  
 3.054E-16  
 Ra-226 Pu-242 9.999E-01 2.030E-37 5.482E-37 1.446E-36 1.601E-35 5.997E-34 7.074E-32 5.689E-30  
 7.153E-28  
 Ra-226 Ra-226 1.000E+00 1.478E-13 1.477E-13 1.475E-13 1.472E-13 1.464E-13 1.434E-13 1.350E-13  
 1.092E-13  
 Ra-226 Th-230 1.000E+00 6.959E-16 2.087E-15 9.042E-15 1.738E-14 4.234E-14 1.386E-13 4.074E-13  
 1.282E-12  
 Ra-226 U-234 1.000E+00 1.198E-21 7.584E-21 1.351E-19 4.985E-19 2.964E-18 3.212E-17 2.857E-16  
 3.121E-15  
 Ra-226 U-238 9.999E-01 1.206E-27 1.494E-26 1.050E-24 7.413E-24 1.074E-22 3.843E-21 1.029E-19  
 3.821E-18  
 Ra-226 %DOSE(j): 1.485E-13 1.498E-13 1.565E-13 1.646E-13 1.888E-13 2.820E-13 5.426E-13  
 1.395E-12  
 0Pu-240 Pu-240 1.000E+00 3.335E-42 3.335E-42 3.332E-42 3.331E-42 3.324E-42 3.300E-42 3.230E-42  
 5.999E-42  
 0Pu-241 Pu-241 2.450E-05 5.971E-30 5.692E-30 4.481E-30 3.362E-30 1.420E-30 4.976E-32 3.456E-36 0.000E+00  
 +00

0Pu-242	Pu-242	5.500E-06	0.000E+00	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											
Pu-242	Pu-242	5.400E-05	0.000E+00	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											
Pu-242	%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	0.000E+00
+00											
0U-238	Pu-242	5.400E-05	0.000E+00	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											
U-238	Pu-242	9.999E-01	2.071E-29	6.213E-29	2.694E-28	5.186E-28	1.268E-27	4.221E-27	1.298E-26		
4.768E-26											
U-238	U-238	5.400E-05	0.000E+00	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											
U-238	%DOSE(j):		2.071E-29	6.213E-29	2.694E-28	5.186E-28	1.268E-27	4.221E-27	1.298E-26		
4.768E-26											
0Pu-242	Pu-242	9.999E-01	7.006E-45	7.006E-45	7.006E-45	7.006E-45	7.006E-45	7.006E-45	8.408E-45		
9.809E-45											
0Ru-106	Ru-106	1.000E+00	4.298E-27	2.159E-27	6.897E-29	1.106E-30	4.539E-36	0.000E+00	0.000E+00	0.000E+00	0.000E+00
+00											
0Sb-125	Sb-125	7.720E-01	2.276E-22	1.769E-22	5.019E-23	1.107E-23	1.185E-25	2.574E-33	0.000E+00	0.000E+00	0.000E+00
+00											
Sb-125	Sb-125	2.280E-01	6.722E-23	5.225E-23	1.482E-23	3.268E-24	3.501E-26	7.601E-34	0.000E+00	0.000E+00	0.000E+00
+00											
Sb-125	%DOSE(j):		2.948E-22	2.292E-22	6.501E-23	1.433E-23	1.535E-25	3.334E-33	0.000E+00	0.000E+00	0.000E+00
+00											
0Te-125m	Sb-125	2.280E-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											
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	0.000E+00
+00											

1RESRAD-OFFSITE, Version 2.6

T' Limit = 30 days

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Parent Dose Report

Title : Industrial Cap Hydro

File : INDUSTRIAL CAP HYDRO.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		9.696E-40	9.578E-40	9.007E-40	8.368E-40	6.709E-40	2.840E-40	2.438E-41
4.204E-45									
0Sn-126 Sn-126	1.000E+00		1.270E-18	1.270E-18	1.271E-18	1.272E-18	1.276E-18	1.290E-18	1.331E-18
1.486E-18									
0Sr-90 Sr-90	1.000E+00		5.666E-22	5.534E-22	4.918E-22	4.269E-22	2.792E-22	5.351E-23	4.773E-25
3.197E-32									
0U-238 U-238	9.999E-01		5.668E-17	5.668E-17	5.672E-17	5.676E-17	5.689E-17	5.740E-17	5.887E-17
6.434E-17									
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                      09/19/2012 15:16 Page 98  
Parent Dose Report  
Title : Industrial Cap Hydro  
File : INDUSTRIAL CAP HYDRO.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
0Ac-227 Ac-227	1.000E+00		2.340E+00	2.267E+00	1.933E+00	1.597E+00	9.004E-01	9.696E-02	1.665E-04
3.492E-14									
Ac-227 Cf-251	1.000E+00		0.000E+00	2.476E-24	0.000E+00	9.290E-25	3.506E-24	4.089E-24	4.198E-22

2.075E-19

Ac-227 Pu-239 1.000E+00 0.000E+00 1.003E-12 2.110E-10 1.611E-09 2.209E-08 5.394E-07 6.997E-06

8.822E-05

Ac-227 U-235 1.000E+00 0.000E+00 7.285E-05 2.483E-03 9.345E-03 4.921E-02 3.217E-01 1.230E+00 4.360E+00

Ac-227 %S(j): 2.340E+00 2.267E+00 1.936E+00 1.606E+00 9.496E-01 4.187E-01 1.231E+00 4.360E+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 7.636E+02 7.628E+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 6.685E-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 8.137E+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 1.337E-02 4.217E-02 1.086E-01 2.260E-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 3.924E-10 9.406E-09

Np-237 Cf-249 2.450E-05 0.000E+00 1.673E-20 3.379E-18 2.516E-17 3.228E-16 6.622E-15 6.820E-14 5.597E-13

Np-237 Np-237 1.000E+00 1.620E-03 1.620E-03 1.620E-03 1.620E-03 1.619E-03 1.618E-03 1.615E-03 1.603E-03

Np-237 Pu-241 1.000E+00 0.000E+00 9.787E-07 3.242E-05 1.181E-04 5.721E-04 3.060E-03 9.254E-03 2.023E-02

Np-237 Pu-241 2.450E-05 0.000E+00 2.959E-08 1.580E-07 2.763E-07 4.811E-07 6.241E-07 6.279E-07 6.233E-07

Np-237 %S(j): 1.620E-03 2.077E-03 4.379E-03 7.166E-03 1.557E-02 4.685E-02 1.194E-01 2.478E-01

U-233 Am-241 1.000E+00 0.000E+00 1.001E-09 3.585E-08 1.429E-07 8.842E-07 9.459E-06 7.669E-05 6.149E-04

U-233	Cf-249	1.000E+00	0.000E+00	2.191E-24	1.773E-21	5.428E-20	4.602E-18	1.208E-15	1.275E-13
1.180E-11									
U-233	Cf-249	2.450E-05	0.000E+00	1.848E-26	2.252E-23	3.398E-22	1.130E-20	8.499E-19	2.928E-17
9.114E-16									
U-233	Np-237	1.000E+00	0.000E+00	7.084E-09	4.250E-08	8.499E-08	2.124E-07	7.069E-07	2.111E-06
6.931E-06									
U-233	Pu-241	1.000E+00	0.000E+00	1.439E-12	2.907E-10	2.166E-09	2.785E-08	5.762E-07	6.086E-06
5.370E-05									
U-233	Pu-241	2.450E-05	0.000E+00	6.542E-14	2.173E-12	7.944E-12	3.889E-11	2.183E-10	7.643E-10
2.640E-09									
U-233	U-233	1.000E+00	2.790E+00	2.790E+00	2.789E+00	2.789E+00	2.787E+00	2.781E+00	2.762E+00
+00									2.698E
U-233	%S(j):		2.790E+00	2.790E+00	2.789E+00	2.789E+00	2.787E+00	2.781E+00	2.762E+00
+00									2.699E
0Th-229	Am-241	1.000E+00	0.000E+00	3.165E-14	6.781E-12	5.407E-11	8.379E-10	3.011E-08	7.478E-07
2.120E-05									
Th-229	Cf-249	1.000E+00	0.000E+00	3.961E-25	0.000E+00	4.457E-24	2.231E-21	2.070E-18	7.044E-16
2.397E-13									
Th-229	Cf-249	2.450E-05	0.000E+00	9.324E-30	1.763E-27	7.814E-26	6.690E-24	1.790E-21	2.002E-19
2.255E-17									
Th-229	Np-237	1.000E+00	0.000E+00	3.355E-13	1.204E-11	4.815E-11	3.007E-10	3.330E-09	2.969E-08
3.195E-07									
Th-229	Pu-241	1.000E+00	0.000E+00	3.439E-17	4.183E-14	6.315E-13	2.103E-11	1.590E-09	5.566E-08
1.812E-06									
Th-229	Pu-241	2.450E-05	0.000E+00	2.076E-18	4.204E-16	3.140E-15	4.066E-14	8.679E-13	1.006E-11
1.193E-10									
Th-229	U-233	1.000E+00	0.000E+00	2.635E-04	1.580E-03	3.159E-03	7.889E-03	2.618E-02	7.754E-02
2.472E-01									
Th-229	%S(j):		0.000E+00	2.635E-04	1.580E-03	3.159E-03	7.889E-03	2.618E-02	7.754E-02
2.472E-01									
0Cf-249	Cf-249	5.200E-09	1.685E-11	1.681E-11	1.665E-11	1.645E-11	1.588E-11	1.382E-11	9.309E-12
2.332E-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

4.484E-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

4.484E-04

1RESRAD-OFFSITE, Version 2.6

T' Limit = 30 days

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Parent Dose Report

Title : Industrial Cap Hydro

File : INDUSTRIAL CAP HYDRO.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	5.897E-05		
1.090E-04											
Cm-245	%S(j):		0.000E+00	2.639E-07	1.575E-06	3.132E-06	7.686E-06	2.387E-05	5.897E-05		
1.090E-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	5.591E-05		
1.084E-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		
2.657E-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		
4.755E-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		
1.084E-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	4.386E-08		
1.099E-08											
0Cm-245	Cf-249	2.450E-05	0.000E+00	6.466E-12	3.860E-11	7.673E-11	1.883E-10	5.848E-10	1.445E-09		
2.671E-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		
6.189E-03											



0Cm-247	Cf-251	1.000E+00	0.000E+00	5.952E-10	3.564E-09	7.112E-09	1.766E-08	5.729E-08	1.594E-07
4.144E-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	2.310E-09
2.124E-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	6.783E-12
2.166E-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									8.986E
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									8.986E
0U-235	Cf-251	1.000E+00	0.000E+00	0.000E+00	4.537E-25	1.500E-24	5.291E-23	6.489E-21	5.068E-19
5.531E-17									
U-235	Pu-239	1.000E+00	0.000E+00	9.110E-06	5.465E-05	1.093E-04	2.731E-04	9.084E-04	2.709E-03
8.850E-03									
U-235	U-235	1.000E+00	2.180E+02	2.180E+02	2.180E+02	2.179E+02	2.178E+02	2.174E+02	2.161E+02
+02									2.118E
U-235	%S(j):		2.180E+02	2.180E+02	2.180E+02	2.179E+02	2.178E+02	2.174E+02	2.161E+02
+02									2.118E
0Pa-231	Cf-251	1.000E+00	0.000E+00	2.345E-24	0.000E+00	0.000E+00	9.804E-25	1.914E-24	6.481E-22
2.401E-19									
Pa-231	Pu-239	1.000E+00	0.000E+00	9.664E-11	3.471E-09	1.388E-08	8.668E-08	9.612E-07	8.605E-06
9.387E-05									
Pa-231	U-235	1.000E+00	0.000E+00	4.612E-03	2.767E-02	5.533E-02	1.383E-01	4.601E-01	1.373E+00
+00									4.498E
Pa-231	%S(j):		0.000E+00	4.612E-03	2.767E-02	5.533E-02	1.383E-01	4.601E-01	1.373E+00
+00									4.498E
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	6.333E-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	9.401E-14	9.402E-14	9.396E-14

9.372E-14  
 Cm-248 Cf-252 4.395E-08 0.000E+00 1.193E-20 4.096E-20 4.944E-20 5.162E-20 5.163E-20 5.159E-20  
 5.146E-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 1.042E-12  
 1.040E-12  
 Cm-248 %S(j): 0.000E+00 2.627E-13 9.022E-13 1.089E-12 1.137E-12 1.137E-12 1.136E-12  
 1.133E-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

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T' Limit = 30 days

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Parent Dose Report

Title : Industrial Cap Hydro

File : INDUSTRIAL CAP HYDRO.ROF

Individual Nuclide Soil Concentration  
 Parent Nuclide and Thread Fraction Indicated

0Nuclide (j)	Parent (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
				0.000E+00	3.016E-16	1.036E-15	1.250E-15	1.305E-15	1.305E-15	1.304E-15	
				0.000E+00	1.325E-24	3.267E-23	9.157E-23	2.870E-22	1.054E-21	3.244E-21	
				0.000E+00	5.239E-29	1.292E-27	3.622E-27	1.135E-26	4.168E-26	1.283E-25	
				0.000E+00	5.239E-29	1.292E-27	3.622E-27	1.135E-26	4.168E-26	1.283E-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	1.994E-27	
2.199E-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	
1.059E-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	
1.059E-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	7.840E-42	0.000E+00
+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	
8.706E-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	4.029E-20	
4.443E-19										
0U-236	Cf-252	8.879E-01	0.000E+00	4.815E-34	2.936E-31	3.713E-30	8.697E-29	4.082E-27	1.179E-25	
4.375E-24										
U-236	Pu-240	1.000E+00	0.000E+00	7.045E-05	4.226E-04	8.448E-04	2.109E-03	6.998E-03	2.071E-02	
6.586E-02										
U-236	U-236	1.000E+00	4.070E-01	4.070E-01	4.069E-01	4.069E-01	4.066E-01	4.058E-01	4.035E-01	
3.953E-01										
U-236	%S(j):		4.070E-01	4.071E-01	4.074E-01	4.077E-01	4.088E-01	4.128E-01	4.242E-01	
4.612E-01										
0Th-232	Cf-252	8.879E-01	0.000E+00	1.104E-40	6.120E-39	9.602E-39	9.671E-38	4.913E-36	4.316E-34	
5.413E-32										
Th-232	Pu-240	1.000E+00	0.000E+00	1.743E-15	6.258E-14	2.502E-13	1.562E-12	1.730E-11	1.543E-10	
1.662E-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	6.021E-10	2.005E-09	5.998E-09	
1.979E-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	1.863E-40	6.318E-38	5.810E-38	1.875E-37	3.716E-36	3.873E-34	
5.238E-32										
Ra-228	Pu-240	1.000E+00	0.000E+00	6.826E-17	1.272E-14	8.715E-14	9.309E-13	1.467E-11	1.461E-10	

1.635E-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 4.401E-10 1.839E-09 5.832E-09  
 1.963E-08  
 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  
 9.880E-03  
 Th-228 Cf-252 8.879E-01 0.000E+00 9.644E-41 3.329E-38 3.532E-38 1.714E-37 3.308E-36 3.729E-34  
 5.181E-32  
 Th-228 Pu-240 1.000E+00 0.000E+00 5.821E-18 4.857E-15 5.020E-14 7.462E-13 1.383E-11 1.433E-10  
 1.626E-09  
 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 7.736E-11 3.870E-10 1.784E-09 5.777E-09  
 1.957E-08  
 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  
 9.880E-03  
 Cl-36 Cl-36 1.000E+00 2.790E-01 2.784E-01 2.757E-01 2.724E-01 2.627E-01 2.283E-01 1.528E-01  
 3.749E-02

1RESRAD-OFFSITE, Version 2.6

T' Limit = 30 days

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Parent Dose Report

Title : Industrial Cap Hydro

File : INDUSTRIAL CAP HYDRO.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	2.206E+00	1.001E+00	9.365E-02	9.309E-06	3.414E-17	0.000E+00
0Cs-134	Cs-134	1.000E+00	2.620E-06	1.872E-06	3.490E-07	4.647E-08	1.096E-10	6.607E-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	3.024E+02	2.974E+00	2.804E-07
0Eu-154	Eu-154	1.000E+00	9.920E-03	9.169E-03	6.184E-03	3.855E-03	9.340E-04	3.764E-06	5.420E-13	6.137E-37
0Eu-155	Eu-155	1.000E+00	8.720E-03	7.583E-03	3.771E-03	1.631E-03	1.318E-04	7.438E-09	5.409E-21	0.000E+00
0H-3	H-3	1.000E+00	3.780E+04	3.567E+04	2.667E+04	1.882E+04	6.609E+03	1.130E+02	1.009E-03	2.147E-21
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	4.585E-05	3.795E-07	3.022E-15	2.196E-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	2.539E-04	9.004E-14
Pb-210	Pu-238	1.000E+00	0.000E+00	2.115E-13	2.609E-10	3.982E-09	1.360E-07	1.060E-05	3.275E-04	6.515E-03
Pb-210	Pu-242	9.999E-01	0.000E+00	2.413E-23	6.331E-23	7.319E-23	2.388E-21	7.169E-19	9.682E-17	1.444E-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	2.531E+00
Pb-210	Th-230	1.000E+00	0.000E+00	5.593E-04	1.907E-02	7.181E-02	3.786E-01	2.468E+00	9.150E+00	2.852E+01
Pb-210	U-234	1.000E+00	0.000E+00	8.601E-10	1.776E-07	1.357E-06	1.863E-05	4.544E-04	5.789E-03	6.711E-02
Pb-210	U-238	9.999E-01	0.000E+00	1.498E-17	9.561E-13	1.477E-11	5.191E-10	4.534E-08	1.902E-06	

7.957E-05

Pb-210	%S(j):		2.850E+00	2.881E+00	3.038E+00	3.230E+00	3.817E+00	6.159E+00	1.258E+01	3.113E
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+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	2.583E-04
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9.159E-14

Po-210	Pu-238	1.000E+00	0.000E+00	5.950E-14	1.882E-10	3.359E-09	1.271E-07	1.041E-05	3.258E-04
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6.507E-03

Po-210	Pu-242	9.999E-01	0.000E+00	0.000E+00	3.165E-23	3.876E-23	2.163E-21	6.991E-19	9.606E-17
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1.441E-14

Po-210	Ra-226	1.000E+00	0.000E+00	6.406E-02	5.990E-01	1.150E+00	2.292E+00	3.562E+00	3.429E+00	2.532E
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+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	9.132E+00	2.851E
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+01

Po-210	U-234	1.000E+00	0.000E+00	2.854E-10	1.376E-07	1.192E-06	1.771E-05	4.483E-04	5.767E-03
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6.704E-02

Po-210	U-238	9.999E-01	0.000E+00	1.923E-17	6.890E-13	1.245E-11	4.847E-10	4.447E-08	1.891E-06
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7.944E-05

Po-210	%S(j):		0.000E+00	2.406E+00	3.021E+00	3.212E+00	3.799E+00	6.141E+00	1.257E+01	3.112E
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+01

0Pm-147	Pm-147	1.000E+00	1.370E-08	1.052E-08	2.809E-09	5.757E-10	4.956E-12	4.596E-20	5.157E-43	0.000E
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+00

0Sm-147	Pm-147	1.000E+00	0.000E+00	7.870E-20	2.695E-19	3.248E-19	3.389E-19	3.390E-19	3.389E-19
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3.385E-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
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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	6.671E+03	1.374E+03	5.449E
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+00

Pu-238	%S(j):		1.470E+04	1.458E+04	1.402E+04	1.337E+04	1.160E+04	6.671E+03	1.374E+03	5.449E
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+00

1RESRAD-OFFSITE, Version 2.6

T' Limit = 30 days

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Parent Dose Report

Title : Industrial Cap Hydro

File : INDUSTRIAL CAP HYDRO.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
U-234	Pu-238	1.000E+00	0.000E+00	4.151E-02	2.442E-01	4.770E-01	1.113E+00	2.876E+00	4.751E+00	5.128E+00	5.426E-11
U-234	Pu-242	9.999E-01	0.000E+00	5.557E-17	1.995E-15	7.979E-15	4.984E-14	5.530E-13	4.956E-12		
U-234	U-234	1.000E+00	4.260E+01	4.260E+01	4.259E+01	4.258E+01	4.256E+01	4.246E+01	4.219E+01	4.126E+01	
U-234	U-238	9.999E-01	0.000E+00	1.517E-04	9.098E-04	1.819E-03	4.546E-03	1.512E-02	4.508E-02		
U-234	%S(j):		4.260E+01	4.264E+01	4.284E+01	4.306E+01	4.368E+01	4.536E+01	4.699E+01	4.654E+01	
Th-230	Pu-238	1.000E+00	0.000E+00	1.876E-07	6.650E-06	2.618E-05	1.562E-04	1.464E-03	8.755E-03		
Th-230	Pu-242	9.999E-01	0.000E+00	1.872E-22	3.600E-20	2.875E-19	4.488E-18	1.660E-16	4.465E-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	3.827E-02	1.143E-01		
Th-230	U-238	9.999E-01	0.000E+00	6.846E-10	2.458E-08	9.829E-08	6.140E-07	6.810E-06	6.101E-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	6.876E-07	2.221E-05	4.265E-04		
Ra-226	Pu-242	9.999E-01	0.000E+00	2.127E-23	6.981E-23	3.911E-22	1.454E-20	1.783E-18	1.415E-16		

1.631E-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 2.928E+01  
 Ra-226 U-234 1.000E+00 0.000E+00 8.329E-08 2.989E-06 1.194E-05 7.441E-05 8.177E-04 7.133E-03  
 7.125E-02  
 Ra-226 U-238 9.999E-01 0.000E+00 9.856E-14 2.130E-11 1.702E-10 2.652E-09 9.735E-08 2.564E-06  
 8.719E-05  
 Ra-226 %S(j): 3.850E+00 3.885E+00 4.057E+00 4.264E+00 4.881E+00 7.235E+00 1.357E+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 2.140E+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 5.009E-08  
 1.165E-22  
 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  
 1.383E-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  
 1.358E-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 1.499E-05  
 1.496E-05  
 0U-238 Pu-242 5.400E-05 0.000E+00 2.111E-15 1.267E-14 2.533E-14 6.330E-14 2.108E-13 6.304E-13  
 2.079E-12  
 U-238 Pu-242 9.999E-01 0.000E+00 3.909E-11 2.345E-10 4.690E-10 1.172E-09 3.903E-09 1.167E-08  
 3.849E-08  
 U-238 U-238 5.400E-05 2.889E-03 2.889E-03 2.888E-03 2.888E-03 2.886E-03 2.881E-03 2.864E-03  
 2.806E-03  
 U-238 %S(j): 2.889E-03 2.889E-03 2.888E-03 2.888E-03 2.886E-03 2.881E-03 2.864E-03  
 2.806E-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  
 2.515E-01  
 0Ru-106 Ru-106 1.000E+00 7.770E-09 3.902E-09 1.246E-10 1.995E-12 8.164E-18 8.821E-39 0.000E+00 0.000E+00



0Sb-125	Sb-125	7.720E-01	4.169E-04	3.240E-04	9.183E-05	2.023E-05	2.160E-07	4.634E-15	5.717E-37	0.000E+00
0Sb-125	Sb-125	2.280E-01	1.231E-04	9.568E-05	2.712E-05	5.973E-06	6.379E-08	1.368E-15	1.688E-37	0.000E+00
0Sb-125	%S(j):		5.400E-04	4.197E-04	1.189E-04	2.620E-05	2.798E-07	6.002E-15	7.405E-37	0.000E+00
0Te-125m	Sb-125	2.280E-01	0.000E+00	9.973E-05	2.877E-05	6.337E-06	6.767E-08	1.452E-15	1.791E-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	9.766E-03	2.092E-03	9.524E-06

1RESRAD-OFFSITE, Version 2.6                      T' Limit = 30 days                      09/19/2012 15:16    Page 103

Parent Dose Report

Title : Industrial Cap Hydro

File : INDUSTRIAL CAP HYDRO.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
03				1.000E	1.000E	1.000E	1.000E	1.000E	1.000E	1.000E
ffffffffff fffffffffff fffffffffff fffffffffff fffffffffff fffffffffff fffffffffff fffffffffff										
0Sn-121m	Sn-121m	1.000E+00		5.020E-01	4.957E-01	4.654E-01	4.315E-01	3.439E-01	1.423E-01	1.144E-02
0Sn-126	Sn-126	1.000E+00		1.220E-01	1.220E-01	1.220E-01	1.220E-01	1.220E-01	1.219E-01	1.217E-01
0Sr-90	Sr-90	1.000E+00		4.300E+02	4.199E+02	3.728E+02	3.232E+02	2.105E+02	3.978E+01	3.405E-01
0U-238	U-238	9.999E-01		5.350E+01	5.350E+01	5.349E+01	5.348E+01	5.345E+01	5.334E+01	5.303E+01
01				5.197E	5.197E	5.197E	5.197E	5.197E	5.197E	5.197E
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000										

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

1RESRAD-OFFSITE, Version 2.6      T' Limit = 30 days      09/19/2012 15:16 Page 104  
Parent Dose Report  
Title : Industrial Cap Hydro  
File : INDUSTRIAL CAP HYDRO.ROF

Run Time Information

Res0Calc.EXE execution began at 15:16 on 09/19/2012

Res0Calc.EXE execution ended at 15:17 on 09/19/2012

Res0Calc.EXE execution time 33.499 seconds